Supplement file 1 Search strategy

Supp	inenent nie 1 Search strategy	
	Ichushi-Web	Results
#1	NDB/AL and (data/TA or information/TA or (database/TH or database/AL))	451
2	(nation/TA or Japan/TA) and (health/TA or insurance/TA or administrative/TA) and claim/TA	62
3	(nation/TA or Japan/TA) and claim/TA and database/TA	86
4	national database/AL or national claims database/AL	112
5	(claims data/TA or specific health checkups/TA or specific health guidance/TA) and (database/TH or	325
5	database/AL)	320
6	#1 or #2 or #3 or #4 or #5	806
7	JMDC/AL	51
8	Japan Medical Data Center/AL or (Japan/TA and medical/TA and data/TA and center/TA)	70
9	employ/TA and health/TA and insurance/TA	5
10	#7 or #8 or #9	116
11	MDV/AL and (data/TA or information/TA or (database/TH or database/AL))	18
	Medical Data Vision/AL or Medical Data Vision/AL	74
	#11 or #12	86
	KDB/AL or kokuho database/AL or (Kokuho/TA and database/TA)	73
	((public health insurance/TH or public health insurance/AL) or health insurance/TA or medical insurance/TA	
15	or community insurance/TA) and (database/TH or database/AL)	358
	(Kokuho/TA or Shaho/TA or Kempo/TA or Kenpo/TA) and (database/TE)	
#16	database/AL))	318
417		675
17	#14 or #15 or #16	675
41.0	((insurance claim/TH or claim/AL) or health insurance claim/AL or insurance claim/AL or claim/AL or (health	2.000
18	insurance/TH or health insurance/AL)) and (data/TA or information/TA or (database/TH or database/AL))	2,262
	health/TA and (insurance/TA or administrative/TA) and claim/TA	46
20	#18 or #19	2,276
‡21	(DPC/TA or PDPS/TA or DRG/TA) and (data/TA or information/TA or (database/TH or database/AL))	2,432
	(Diagnosis Procedure Combination/Per-Diem Payment System/TH or Per-Diem Payment System/AL or	
22	Diagnosis Procedure Combination/AL or Diagnosis Group/AL or Disease by Diagnosis/AL) and (data/TA or	3,094
	information/TA or (database/TH or database/AL))	
23	(diagnos/TA and procedure/TA and combination/TA) or (diagnos/TA and related/TA and groups/TA)	432
24	#21 or #22 or #23	3,576
25	medical/TA and electronic/TA and claim/TA	10
26	#6 or #10 or #13 or #17 or #20 or #24 or #25	6,403
27	(#26) and (PT=Article)	1,609
28	(#26) and (PT=Review)	83
#29	(#26) and (PT=Commentary)	1,598
	(#26) and (PT=Conference Abstract)	3,013
	Search was conducted in Japanese (translated into English for submission).	-,
	MEDLINE	Results
1	NDB.mp. and (Japan\$.mp. or Japan.in.)	53
	(nation\$ adj5 insurance adj2 claim?).mp. and (Japan\$.mp. or Japan.in.)	106
	1 or 2	131
	(JMDC or (employ\$ adj2 health adj1 insurance)).mp. and (Japan\$.mp. or Japan.in.)	100
	(Japan adj1 medical adj1 data adj1 center).mp. or (Japan adj1 medical adj1 data adj1 center).in.	100
	4 or 5	181
	(MDV or (medical adj1 data adj1 vision)).mp. and (Japan\$.mp. or Japan.in.)	258
	(medical adj1 data adj1 vision).in.	12
	7 or 8	269
	(KDB.mp. and (Japan\$.mp. or Japan.in.)) or (Kokuho adj1 database?).mp.	10
11	((DPC and database?) or PDPS).mp. and (Japan\$.mp. or Japan.in.)	114
12	(diagnos\$ adj1 procedure\$ adj1 combination).mp. and (Japan\$.mp. or Japan.in.)	575
13	(diagno\$ adj1 related adj1 groups).mp. and (Japan\$.mp. or Japan.in.)	122
14	(per-diem adj1 payment adj1 system).mp. and (Japan\$.mp. or Japan.in.)	21
15	diagnosis-related groups.sh. and (Japan\$.mp. or Japan.in.)	116
16	11 or 12 or 13 or 14 or 15	686
1 7	((medical or health or healthcare or administrative or insurance) adj5 claim?).mp. and (Japan\$.mp. or	000
17	Japan.in.)	822
18	(claim? adj1 (data or database)).mp. and (Japan\$.mp. or Japan.in.)	696
	(administrative claims, healthcare or insurance claim reporting or insurance claim review) sh, and (Japan \$ mp	
19	or Japan.in.)	160
20	(nationwide adj1 database adj5 Japan\$).mp.	84
	17 or 18 or 19 or 20	1085
	3 or 6 or 9 or 10 or 16 or 21	1987
22	3 0 0 0 3 0 10 0 10 0 21	1301
	FMRACE	Results
£1	EMBASE	Results 231
‡1 ‡2	EMBASE (ndb OR (nation* NEXT/5 insurance NEXT/2 claim*)) AND japan* (jmdc OR (japan NEXT/1 medical NEXT/1 data NEXT/1 center)) AND japan*	Results 231 304

#2	(jmdc OR (japan NEXT/1 medical NEXT/1 data NEXT/1 center)) AND japan*
----	---

#3	(employ* NEXT/2 health NEXT/1 insurance) AND japan*	53
#4	#2 OR #3	350
#5	(mdv:ti,ab,kw OR (medical NEXT/1 data NEXT/1 vision)) AND japan*	340
#6	kdb AND japan* OR (kokuho NEXT/1 database*)	11
#7	(dpc AND database* OR pdps) AND japan*	277
#8	(diagnos* NEXT/1 procedure* NEXT/1 combination) AND japan*	807
#9	(diagnos* NEXT/1 related NEXT/1 group*) AND japan*	284
#10	'diagnosis related group'/exp AND japan*	255
#11	('per diem' NEXT/1 payment NEXT/1 system) AND japan*	30
#12	#7 OR #8 OR #9 OR #10 OR #11	1154
#13	((medical OR health OR healthcare OR administrative OR insurance) NEXT/5 claim*) AND japan*	1169
#14	(claim* NEAR/1 (data OR database*)) AND japan*	1258
#15	nationwide NEXT/1 database* NEAR/5 japan*	105
#16	'health insurance'/exp AND claim* AND japan*	661
#17	'billing and claims'/exp AND japan*	32
#18	#13 OR #14 OR #15 OR #16 OR #17	1860
#19	#1 OR #4 OR #5 OR #6 OR #12 OR #18	3238
#20	#19 AND ('Article'/it OR 'Article in Press'/it)	2069
#21	#19 AND 'review'/it	113
#22	#19 AND ('letter'/it OR 'note'/it OR 'short survey'/it)	32

Supplement file 2 PRISMA-ScR CHECKLIST

SECTION	ITEM	PRISMA-ScR CHECKLIST ITEM	REPORTED OI PAGE #
TITLE			
Title	1	Identify the report as a scoping review.	Title
ABSTRACT			
Structured summary	2	Provide a structured summary that includes (as applicable): background, objectives, eligibility criteria, sources of evidence, charting methods, results, and conclusions that relate to the review questions and objectives.	Abstract
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of what is already known. Explain why the review questions/objectives lend themselves to a scoping review approach.	p. 4
Objectives	4	Provide an explicit statement of the questions and objectives being addressed with reference to their key elements (e.g., population or participants, concepts, and context) or other relevant key elements used to conceptualize the review questions and/or objectives.	p. 4
METHODS			
Protocol and registration	5	Indicate whether a review protocol exists; state if and where it can be accessed (e.g., a Web address); and if available, provide registration information, including the registration number.	NA
Eligibility criteria	6	Specify characteristics of the sources of evidence used as eligibility criteria (e.g., years considered, language, and publication status), and provide a rationale.	p. 4
Information sources*	7	Describe all information sources in the search (e.g., databases with dates of coverage and contact with authors to identify additional sources), as well as the date the most recent search was executed.	p. 5
Search	8	Present the full electronic search strategy for at least 1 database, including any limits used, such that it could be repeated.	Supplementary file 1
Selection of sources of evidence†	9	State the process for selecting sources of evidence (i.e., screening and eligibility) included in the scoping review.	p. 5
Data charting process‡	10	Describe the methods of charting data from the included sources of evidence (e.g., calibrated forms or forms that have been tested by the team before their use, and whether data charting was done independently or in duplicate) and any processes for obtaining and confirming data from investigators.	p. 6
Data items	11	List and define all variables for which data were sought and any assumptions and simplifications made.	p. 6
Critical appraisal of individual sources of evidence§	12	If done, provide a rationale for conducting a critical appraisal of included sources of evidence; describe the methods used and how this information was used in any data synthesis (if appropriate).	NA
Synthesis of results	13	Describe the methods of handling and summarizing the data that were charted.	p. 6
RESULTS	-	5 5	
Selection of sources of evidence	14	Give numbers of sources of evidence screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally using a flow diagram.	p. 6, Figure 1
Characteristics of sources of evidence	15	For each source of evidence, present characteristics for which data were charted and provide the citations.	p. 7, Table 1
Critical appraisal within sources of evidence	16	If done, present data on critical appraisal of included sources of evidence (see item 12).	NA
Results of individual sources of evidence	17	For each included source of evidence, present the relevant data that were charted that relate to the review questions and objectives.	Supplementary file 4
Synthesis of results	18	Summarize and/or present the charting results as they relate to the review questions and objectives.	pp. 8-, Table 2 and 3
DISCUSSION			
Summary of evidence	19	Summarize the main results (including an overview of concepts, themes, and types of evidence available), link to the review questions and objectives, and consider the relevance to key groups.	p. 12
Limitations	20	Discuss the limitations of the scoping review process.	p. 16
Conclusions	21	Provide a general interpretation of the results with respect to the review questions and objectives, as well as potential implications and/or next steps.	p. 17
FUNDING			
Funding	22	Describe sources of funding for the included sources of evidence, as well as sources of funding for the scoping review. Describe the role of the funders of the scoping review.	Title page

ID (Author Year)	Title (*titles translated by author)	Reason	Note
Abe 2011	Assessment of psychiatric outcomes in Japan based on diagnostic procedure combination information	Hospital-based (<10 institutes)	single-center
kira 2019	Corrigendum to Treatment procedures and associated medical costs of methicillin- resistant Staphylococcus aureus infection in Japan: A retrospective analysis using a	Others (duplicate/ no original data used)	Correction
rakaki 2012	database of Japanese employment-based health insurance Editorial comment to management trends, angioembolization performance and	Others (duplicate/ no original data	Editorial Commont
I'dKaki 2012	cultorial comment to management trends, angleenbolization performance and multiorgan injury indicators of renal trauma from Japanese administrative claims database	used)	Editorial Comment
rakawa 2013	Economic evaluation for the prevention of cervical cancer by vaccination - From perspective of health insurance society and industry	Combined with primary research	(addition to data from JMDC's receipt database)
sai 2019	Current Difficult Airway Management-Not Good Enough!	No health insurance claims data	closed claims
ssimos 2012	Re: Renal haemorrhage risk after extracorporeal shockwave lithotripsy: results from the	used Others (duplicate/ no original data	Editorial Comment
abazono 2011	Japanese Diagnosis Procedure Combination database Do interventions to prevent lifestyle-related diseases reduce healthcare expenditures? A	used) Combined with primary research	RCT
	randomized controlled clinical trial		
Besstremyannaya 2016	Differential Effects of Declining Rates in a Per Diem Payment System	Using published open data	DPC data (MHLW)
hen 2016 hen 2020	The predictability of eye diseases for Alzheimer's disease	Not Japanese population	Taiwan Letter to the Editor
nen 2020	Letter to the Editor Regarding "Treatment Risk for Elderly Patients with Unruptured Cerebral Aneurysm from a Nationwide Database in Japan"	Others (duplicate/ no original data used)	Letter to the Editor
hen 2021	Characteristics of interstitial lung disease in patients from post-marketing data on	Combined with primary research	questionnaires and/or interviews
	metastatic breast cancer patients who received abemaciclib in Japan	<u> </u>	
hida 2014	Implementation and evaluation of an efficient secure computation system using 'R' for healthcare statistics	Others (duplicate/ no original data used)	dummy insurance claim data (propose a secure statistical analysis system)
rawford 2013	Real-world characterization of hypertension patients in japan: A 1-year overview	Others (duplicate/ no original data used)	
Visease 2018	Global, regional, and national incidence, prevalence, and years lived with disability for 354 diseases and injuries for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017	Using published open data	(Global Burden of Disease Study
bihara 2012	Impact of blunted perception of dyspnea on medical care use and expenditure, and mortality in elderly people	Combined with primary research	Tsurugaya project, a population- based longitudinal study
nger 2010	Comorbidities in patients with persistent or chronic immune thrombocytopenia	Not Japanese population	based longitudinal study
ujieda 2019	The effects of the medical economics of prescription inquiries made by pharmacy pharmacists	No health insurance claims data used	prescription inquiries
ujii 2016	Infectious disease during hospitalization is the major causative factor for prolonged	Hospital-based (<10 institutes)	single-center
ujii 2010	hospitalization: multivariate analysis of diagnosis procedure combination (DPC) data of 20,876 cases in Japan		
ujii 2019	Impact of Body Mass Index of Japanese Gallbladder Cancer Patients on their Postoperative Outcomes	Hospital-based (<10 institutes)	National Saiseikai Hospital DPC survey
ujita 2019	Secondhand Smoke and Streptococcal Infection in Young Children Under Japan's Voluntary Tobacco-Free Policy	Others (duplicate/ no original data used)	Not available
ukai 2020	Validation of self-reported medication use for hypertension, diabetes, and dyslipidemia among employees of large-sized companies in Japan	Combined with primary research	web- or paper-based questionnaires
ukuda 2014	Medical Expenditures Associated With Type 2 Diabetes Mellitus in Japan: A Large Claims Database Study	Others (duplicate/ no original data used)	
ukuhara 2015	Geographical analysis of aneurysmal subarachnoid hemorrhage in Japan utilizing publically-accessible DPC database	Using published open data	DPC data (MHLW)
ukuhara 2016	Prefectural difference in spontaneous intracerebral hemorrhage incidence in Japan analyzed with publically accessible diagnosis procedure combination data: possibilities	Using published open data	DPC data (MHLW)
araham 2020	and limitations Artificial intelligence approaches to predicting and detecting cognitive decline in older	Review article	A Conceptual Review
rosse 2021	adults: A conceptual review Identification of congenital CMV cases in administrative databases and implications for	Review article	review study
lamada 2012	monitoring prevalence, healthcare utilization, and costs Effects of the per diem prospective payment system with DRG-like grouping system	Others (duplicate/ no original data	Thesis
lamamoto 2019	(DPC/PDPS) on resource usage and healthcare quality in Japan Editorial Comment from Dr Hamamoto to Endurological treatment trend of upper urinary	used) Others (duplicate/ no original data	Editorial Comment
	urolithiasis in Japan from the Japanese Diagnosis Procedure Combination Database	used)	
lamaya 2021	Effects of an mHealth App (Kencom) With Integrated Functions for Healthy Lifestyles on Physical Activity Levels and Cardiovascular Risk Biomarkers: Observational Study of 12,602 Users	Combined with primary research	Mobile health (mHealth) apps
lan 2019	Increased risk of psoriasis in subjects with abdominal obesity: A nationwide population- based study	Not Japanese population	Korean National Health Insurance Service (NHIS) database
lashimoto 2012	Gains in Disability-Free Life Expectancy From Elimination of Diseases and Injuries in Japan	No health insurance claims data used	Comprehensive Survey of Living Conditions of the People on Heal and Welfare
	[Expectations of Certified Psychologist in the Clinical Medicine System in Germany for	No health insurance claims data used	-
layashi 2017	Future Reference]		
	Future Reference] Associations between the injustice experience questionnaire and treatment term in	No health insurance claims data	
Hayashi 2017 Hayashi 2020 Hayashida 2013		No health insurance claims data Combined with primary research	additional research for emergenc
layashi 2020 layashida 2013	Associations between the injustice experience questionnaire and treatment term in Situation Analysis of Emergency Department of the Japanese Acute Care Hospitals History and Profile of Diagnosis Procedure Combination (DPC): Development of a Real		
layashi 2020	Associations between the injustice experience questionnaire and treatment term in Situation Analysis of Emergency Department of the Japanese Acute Care Hospitals	Combined with primary research Review article	care

Higaonna 2020			
0 E0EV	Association between nursing care delivery models and patients' health outcomes in a university hospital: A retrospective cohort study based on the Diagnostic Procedure	Hospital-based (<10 institutes)	an academic teaching hospital
Higashi 2015	Combination database Measuring the quality of care using a large clinical database: Lessons learned in	Review article	Review
Hiraoka 2019	oncology Prediction of Prognosis of Intermediate-Stage HCC Patients: Validation of the Tumor Marker Score in a Nationwide Database in Japan	No health insurance claims data used	a nationwide survey system
Hirose 2020	A review of studies using the Japanese National Database of Health Insurance Claims and Specific Health Checkups	Review article	review study
Hishida 2016	Long-term outcome and prognostic factors of surgically treated thymic carcinoma: results of 306 cases from a Japanese Nationwide Database Study	No health insurance claims data used	a nationwide database: The Japanese Association for Research of the Thymus(JART)
Hung 2018	Diagnostic consistency and interchangeability of schizophrenic disorders and bipolar disorders: A 7-year follow-up study	Not Japanese population	Taiwan
le 2017		Not Japanese population	
Igarashi 2019	Cost-minimisation model of magnetic resonance-guided focussed ultrasound therapy compared to unilateral deep brain stimulation for essential tremor treatment in Japan	Using published open data	data from published sources and expert clinical opinion
lihara 2013	Issues in acute stroke care systems in Japan with a special emphasis on implementation of comprehensive stroke centers	Review article	Review
Ikawa 2020	In Reply to Letter to the Editor Regarding "Treatment Risk for Elderly Patients with Unruptured Cerebral Aneurysm from a Nationwide Database in Japan"	Others (duplicate/ no original data used)	Letter
Inagaki 2014	[Metabolic and lithium monitoring in Japanese psychiatric outpatient clinics]	Duplicates	Duplicate (稲垣 2014)
Inoue 2016	[Psychotropic Prescribing Practices for Children and Adolescents with Intellectual Disabilities: A Cohort Study Using a Large-scale Health Insurance Database]	Duplicates	Duplicate (井上 2016)
Inoue 2017	Regional Variation in the Use of Percutaneous Coronary Intervention in Japan	Using published open data	DPC summary tables (MHLW)
Inoue 2019	[Factors related to life expectancy in prefectures: An ecological study using the National Database]	No health insurance claims data used	Health checkup data
Inoue 2019	Regional variance in patterns of prescriptions for chronic kidney disease in Japan	Using published open data	NDB Open data
Inoue 2021	Regional variation in the use of catheter ablation for patients with arrhythmia in Japan	Using published open data	DPC data (MHLW)
Ishii 2012	DRG/PPS and DPC/PDPS as Prospective Payment Systems	Review article	Review
Ishikawa 2016	Medical Big Data for Research Use: Current Status and Related Issues	Review article	Conferences and Lectures
Ishimaru 2019	Domiciliary dental care among homebound older adults: A nested case-control study in	No health insurance claims data	LTC insurance claims database
	Japan	used	and the Survey of Medical Institutions in Japan
Isobe 2020	Correlation between the number of laparoscopy-qualified gynecologists and the proportion of laparoscopic surgeries for benign gynecological diseases in Japan: An ecological study	Using published open data	NDB Open data
Isobe 2020	The number of overall hysterectomies per population with the perimenopausal status is	Using published open data	NDB Open data
Isumi 2020	increasing in Japan: A national representative cohort study Assessment of Additional Medical Costs Among Older Adults in Japan With a History of	Combined with primary research	the Japan Gerontological
Itoh 2019	Childhood Maltreatment National burden of the pharmaceutical cost of wet compresses and its cost predictors:	Using published open data	Evaluation Study (JAGES) NDB Open data
Iwasaki 2017	nationwide cross-sectional study in Japan Association between tooth loss and medical costs related to stroke in healthy older	Combined with primary research	Niigata Study (a prospective
Jamotte 2014	adults aged over 75 years in Japan Treatment Patterns and Health Care Costs in Patients with Schizophrenia Initiating with First- or Second-Generation Antipsychotic: Results from a Japanese Claims Database Analysis	Others (duplicate/ no original data used)	community-based study)
Jamotte 2014	Treatment Patterns and Health Care Costs in Patients with Depression Treated with	Others (duplicate/ no original data	
		used)	
Jingushi 2021	Low-intensity pulsed ultrasound is frequently used to treat fractures after osteosynthesis in elderly patients: A study using open data from the national database of health insurance claims of Japan	Using published open data	NDB Open data
Kamata 2018	Wide difference in biologics usage and expenditure for the treatment of patients with rheumatoid arthritis in each prefecture in Japan analyzed using "National Database of	Using published open data	NDB Open data
	Health insurance Glaims and Specific Health Gheckups of Japan		
Kamata 2019	Health Insurance Claims and Specific Health Checkups of Japan" Status quo of osteoporosis treatment in Japan disclosed by the National Database of Health Insurance Claims and Specific Health Checkups: too late in treatment initiation and too few in treated patients?	Using published open data	NDB Open data
Kamata 2019 Kamijo 2014	Status quo of osteoporosis treatment in Japan disclosed by the National Database of	Using published open data Hospital-based (<10 institutes)	NDB Open data a specialized cancer hospital
	Status quo of osteoporosis treatment in Japan disclosed by the National Database of Health Insurance Claims and Specific Health Checkups: too late in treatment initiation and too few in treated patients? Cost information of chemotherapy for cervical and endometrial cancer in Japan Medical and Dental Visits of Chronic Kidney Disease-Diagnosed Participants Analyzed		a specialized cancer hospital questionnaire (TAMA MED Project
Kamijo 2014	Status quo of osteoporosis treatment in Japan disclosed by the National Database of Health Insurance Claims and Specific Health Checkups: too late in treatment initiation and too few in treated patients? Cost information of chemotherapy for cervical and endometrial cancer in Japan	Hospital-based (<10 institutes)	a specialized cancer hospital
Kamijo 2014 Kaneko 2020	Status quo of osteoporosis treatment in Japan disclosed by the National Database of Health Insurance Claims and Specific Health Checkups: too late in treatment initiation and too few in treated patients? Cost information of chemotherapy for cervical and endometrial cancer in Japan Medical and Dental Visits of Chronic Kidney Disease-Diagnosed Participants Analyzed From the Specific Health Checkups Results in Japan: TAMA MED Project-CKD Improvement of diagnostic accuracy of Parkinson's disease on I-123-ioflupane single photon emission computed tomography (123I FP-CIT SPECT) using new Japanese normal	Hospital-based (<10 institutes) Combined with primary research No health insurance claims data	a specialized cancer hospital questionnaire (TAMA MED Project CKD)
Kamijo 2014 Kaneko 2020	Status quo of osteoporosis treatment in Japan disclosed by the National Database of Health Insurance Claims and Specific Health Checkups: too late in treatment initiation and too few in treated patients? Cost information of chemotherapy for cervical and endometrial cancer in Japan Medical and Dental Visits of Chronic Kidney Disease-Diagnosed Participants Analyzed From the Specific Health Checkups Results in Japan: TAMA MED Project-CKD Improvement of diagnostic accuracy of Parkinson's disease on I-123-ioflupane single photon emission computed tomography (123I FP-CIT SPECT) using new Japanese normal database A commentary on the article: Comparison of outcomes after differentiated thyroid cancer surgery performed with and without energy devices: A population-based cohort study using a nationwide database in Japan, Int. J. Surg. 2020 Apr 9, doi:	Hospital-based (<10 institutes) Combined with primary research No health insurance claims data used	a specialized cancer hospital questionnaire (TAMA MED Project CKD) Japanese normal database (NDB)
Kamijo 2014 Kaneko 2020 Kanzaki 2020	Status quo of osteoporosis treatment in Japan disclosed by the National Database of Health Insurance Claims and Specific Health Checkups: too late in treatment initiation and too few in treated patients? Cost information of chemotherapy for cervical and endometrial cancer in Japan Medical and Dental Visits of Chronic Kidney Disease-Diagnosed Participants Analyzed From the Specific Health Checkups Results in Japan: TAMA MED Project-CKD Improvement of diagnostic accuracy of Parkinson's disease on I-123-ioflupane single photon emission computed tomography (123I FP-CIT SPECT) using new Japanese normal database A commentary on the article: Comparison of outcomes after differentiated thyroid cancer surgery performed with and without energy devices: A population-based cohort study using a nationwide database in Japan, Int. J. Surg. 2020 Apr 9, doi: 10.1016/j.ijsu.2020.03.072, pii: S1743-9191(20)30286-7 Factors associated with the use of home-visit nursing services covered by the long-term	Hospital-based (<10 institutes) Combined with primary research No health insurance claims data used Others (duplicate/ no original data used) No health insurance claims data	a specialized cancer hospital questionnaire (TAMA MED Project CKD) Japanese normal database (NDB)
Kamijo 2014 Kaneko 2020 Kanzaki 2020 Karimian 2020 Kashiwagi 2013	Status quo of osteoporosis treatment in Japan disclosed by the National Database of Health Insurance Claims and Specific Health Checkups: too late in treatment initiation and too few in treated patients? Cost information of chemotherapy for cervical and endometrial cancer in Japan Medical and Dental Visits of Chronic Kidney Disease-Diagnosed Participants Analyzed From the Specific Health Checkups Results in Japan: TAMA MED Project-CKD Improvement of diagnostic accuracy of Parkinson's disease on I-123-ioflupane single photon emission computed tomography (123I FP-CIT SPECT) using new Japanese normal database A commentary on the article: Comparison of outcomes after differentiated thyroid cancer surgery performed with and without energy devices: A population-based cohort study using a nationwide database in Japan, Int. J. Surg. 2020 Apr 9, doi: 10.1016/j.ijsu.2020.03.072, pii: S1743-9191(20)30286-7 Factors associated with the use of home-visit nursing services covered by the long-term care insurance in rural Japan: a cross-sectional study	Hospital-based (<10 institutes) Combined with primary research No health insurance claims data used Others (duplicate/ no original data used) No health insurance claims data used	a specialized cancer hospital questionnaire (TAMA MED Project CKD) Japanese normal database (NDB) Invited Commentary long-term care insurance
Kamijo 2014 Kaneko 2020 Kanzaki 2020 Karimian 2020 Kashiwagi 2013 Katano 2018	Status quo of osteoporosis treatment in Japan disclosed by the National Database of Health Insurance Claims and Specific Health Checkups: too late in treatment initiation and too few in treated patients? Cost information of chemotherapy for cervical and endometrial cancer in Japan Medical and Dental Visits of Chronic Kidney Disease-Diagnosed Participants Analyzed From the Specific Health Checkups Results in Japan: TAMA MED Project-CKD Improvement of diagnostic accuracy of Parkinson's disease on I-123-ioflupane single photon emission computed tomography (123I FP-CIT SPECT) using new Japanese normal database A commentary on the article: Comparison of outcomes after differentiated thyroid cancer surgery performed with and without energy devices: A population-based cohort study using a nationwide database in Japan, Int. J. Surg. 2020 Apr 9, doi: 10.1016/j.ijsu.2020.03.072, pii: S1743-9191(20)30286-7 Factors associated with the use of home-visit nursing services covered by the long-term care insurance in rural Japan: a cross-sectional study Trends in isolated meniscus repair and meniscectomy in Japan, 2011-2016	Hospital-based (<10 institutes) Combined with primary research No health insurance claims data used Others (duplicate/ no original data used) No health insurance claims data used Using published open data	a specialized cancer hospital questionnaire (TAMA MED Project CKD) Japanese normal database (NDB) Invited Commentary long-term care insurance NDB Open data
Kamijo 2014 Kaneko 2020 Kanzaki 2020 Karimian 2020 Kashiwagi 2013	Status quo of osteoporosis treatment in Japan disclosed by the National Database of Health Insurance Claims and Specific Health Checkups: too late in treatment initiation and too few in treated patients? Cost information of chemotherapy for cervical and endometrial cancer in Japan Medical and Dental Visits of Chronic Kidney Disease-Diagnosed Participants Analyzed From the Specific Health Checkups Results in Japan: TAMA MED Project-CKD Improvement of diagnostic accuracy of Parkinson's disease on I-123-ioflupane single photon emission computed tomography (123I FP-CIT SPECT) using new Japanese normal database A commentary on the article: Comparison of outcomes after differentiated thyroid cancer surgery performed with and without energy devices: A population-based cohort study using a nationwide database in Japan, Int. J. Surg. 2020 Apr 9, doi: 10.1016/j.ijsu.2020.03.072, pii: S1743-9191(20)30286-7 Factors associated with the use of home-visit nursing services covered by the long-term care insurance in rural Japan: a cross-sectional study	Hospital-based (<10 institutes) Combined with primary research No health insurance claims data used Others (duplicate/ no original data used) No health insurance claims data used	a specialized cancer hospital questionnaire (TAMA MED Project CKD) Japanese normal database (NDB) Invited Commentary long-term care insurance

Kato 2017	Comparative economic evaluation of home-based and hospital-based palliative care for terminal cancer patients	Hospital-based (<10 institutes)	Nikko Memorial Hospital and Motowanishi Family Clinic in Muroran city, Hokkaido, Japan
Kato 2017	History of the secondary use of national database of health insurance claims and specific health checkups of Japan(NDB)	Review article	Review
Kawahara 2020		No health insurance claims data	
Kimura 2011	prostate cancer patients who undergo abiraterone acetate or enzalutamide treatment Pharmacovigilance systems and databases in Korea, Japan, and Taiwan	used Review article	Review
Kimura 2020	Cardiovascular and cerebrovascular diseases risk associated with the incidence of	Combined with primary research	self-administered questionnaire
	presenteeism and the costs of presenteeism		about presenteeism and absenteeism
Kinosada 2016		Using published open data	DPC data (MHLW)
Kinoshita 2014		Hospital-based (<10 institutes)	Yuri-Kumiai General Hospital
	Hospitalizations among Children Less than 5 Years of Age over a 10-Year Period(2001- 2011) in Akita Prefecture, Japan		
Kinoshita 2021	Cost-effectiveness of a hybrid emergency room system for severe trauma: a health technology assessment from the perspective of the third-party payer in Japan	Hospital-based (<10 institutes)	a tertiary care hospital
Kobayashi 2020	Sequential Use of Androgen Receptor Axis-targeted Agents in Chemotherapy-naive	No health insurance claims data	
	Castration-resistant Prostate Cancer: A Multicenter Retrospective Analysis With 3-Year Follow-up	used	
Kodama 2019	Construction of a Heart Failure Database Collating Administrative Claims Data and	Hospital-based (<10 institutes)	3 hospitals
	Electronic Medical Record Data to Evaluate Risk Factors for In-Hospital Death and Prolonged Hospitalization		
Kohsaka 2021		Review article	Review
Kon 2018		No health insurance claims data used	Specific Health Check and Guidance Program
Konno 2015		Combined with primary research	Watari study (a community-based prospective cohort study)
Konta 2020	Association between serum uric acid levels and mortality: a nationwide community-based	No health insurance claims data used	Specific Health Checkup
Koram 2019	Validation studies of claims data in the Asia-Pacific region: A comprehensive review	Review article	review study
Koyama 2017	Patterns of CT use in Japan, 2014: A nationwide cross-sectional study	Using published open data	NDB Open data
Koyama 2018	Trends in the medication reviews of community pharmacies in Japan: a nationwide retrospective study	Using published open data	Survey of medical care activities in public health insurance (MHLW)
Kubo 2011		Using published open data	DPC data (MHLW)
Kumamaru 2018	Global and Japanese regional variations in radiologist potential workload for computed tomography and magnetic resonance imaging examinations	Using published open data	NDB Open data
Kuniyoshi 2021		Using published open data	NDB Open data
Kurasawa 2020	Pneumonia prevention effects of perioperative oral management in approximately 25,000 patients following cancer surgery	Hospital-based (<10 institutes)	eight regional central hospitals
Kurita 2017	A phase I/II trial of intrabone marrow cord blood transplantation and comparison of the hematological recovery with the Japanese nationwide database	No health insurance claims data used	a phase I/II prospective single- center trial
Kurita 2018		Using published open data	used published NDB data
Kuriyama 2014	[Analysis of cancer treatment in Iwate Prefecture - an analysis of health care regions based on MHLW DPC data]	Using published open data	DPC data (MHLW)
Kuroiwa 2010	[Economical basis for neurologic services and the system for health insurance: diagnosis procedure combinations and insurance scores of neurophysiological tests]	Review article	Symposium Review
Kurosaki 2020		Using published open data	NDB Open data
Kusama 2020	Obstacles to antimicrobial use surveillance using claims data in elderly care facilities in Japan	Review article	Review
Kuwabara 2016		No health insurance claims data used	self-administered questionnaire
Lai 2015	Databases in the Asia-pacific region: The potential for a distributed network approach	Review article	characteristics of databases in Asian-pacific countries
Lin 2017		No health insurance claims data used	LTC insurance claims dataset
Liu 2010	Use of benzodiazepines, hypnotics, and anxiolytics in major depressive disorder: Association with chronic pain diseases	Not Japanese population	US
Liu 2021	Effect of Care Rehabilitation on Medical Expenses, Care Costs, and Total Costs of Elderly Individuals with Parkinson's Disease	Others (duplicate/ no original data used)	Not available
Lkhagva 2013	Does co-payment rate influence the relationship between monthly salary and health care service demand among the insured of health insurance societies in Japan?	Using published open data	National Federation of Health Insurance Societies; Annual Repor
Matsuda 2016	Hospitals and Big Data: Use of Case Mix and E-claim Data in Japan	Review article	Review
Matsuda 2016		Review article	Review
Matsuda 2019 Matsumoto 2013		Review article Hospital-based (<10 institutes)	Review a university hospital
Matsumoto 2020	Validity Assessment of Self-reported Medication Use for Hypertension, Diabetes, and Dyslipidemia in a Pharmacoepidemiologic Study by Comparison With Health Insurance	Combined with primary research	Tsuruoka Metabolomics Cohort Study
Matsutani 2018		Hospital-based (<10 institutes)	Teikyo University Hospital (RCT)
	pregabalin versus epidural analgesia for post-thoracotomy pain relief		
Mihara 2020		Using published open data	NDB Open data

Mitsutake 2021	Influence of co-existing social isolation and homebound status on medical care utilization and expenditure among older adults in Japan	Combined with primary research	(+Postal surveys on social isolation and homebound status)
Miyamoto 2017	Integration of DPC and clinical microbiological data in Japan reveals importance of confirming a negative follow-up blood culture in patients with MRSA bacteremia	Hospital-based (<10 institutes)	Kurume University Hospital
Miyamoto 2021	Effect of franexamic acid in patients with colonic diverticular bleeding: A nationwide inpatient database study	Duplicates	Duplicate (Miyamoto 2020)
Miyazaki 2021	Correction to: Real-World Prescription Pattern and Healthcare Cost Among Patients with Ulcerative Colitis in Japan: A Retrospective Claims Data Analysis	Others (duplicate/ no original data used)	Correction
Mizuno 2015	Surgical management of recurrent thymic epithelial tumors: a retrospective analysis based on the Japanese nationwide database	No health insurance claims data used	nationwide registry study of thymic epithelial tumors
Momo 2021	Development and application for drug-safety and efficacy using a large claims data	Review article	Symposium Review
Mori 2019	Correction to: Estimated expenditures for hip fractures using merged healthcare insurance data for individuals aged >= 75 years and long-term care insurance claims data in Japan	Others (duplicate/ no original data used)	Correction
Mori 2019	Influence of seasonal changes on disease activity and distribution of affected joints in rheumatoid arthritis	No health insurance claims data used	a nationwide RA database
Mori 2020	The Impact of Diabetes Status on Presenteeism in Japan	Combined with primary research	questionnaire survey
Morii 2019	Projecting future supply and demand for physical therapists in Japan using system dynamics	Using published open data	NDB Open data
Morimae 2012	Cost disparity between open repair and endovascular aneurysm repair for abdominal aortic aneurysm: a single-institute experience in Japan	Hospital-based (<10 institutes)	Single-center
Morishima 2013	Burden of household environmental tobacco smoke on medical expenditure for Japanese women: a population-based cohort study	Combined with primary research	Ohsaki Cohort Study
Morishima 2019	Impact of Comorbidities on Survival in Gastric, Colorectal, and Lung Cancer Patients	Hospital-based (<10 institutes)	at the five subject hospitals
Morita 2018	Factors Affecting Discharge to Home of Geriatric Intermediate Care Facility Residents in Japan	No health insurance claims data used	National LTC Insurance Claim Database
Morita 2019	Authors' Reply to Cerejeira: "Association of Early Systemic Corticosteroid Therapy with Mortality in Patients with Stevens-Johnson Syndrome or Toxic Epidermal Necrolysis: A Retrospective Cohort Study Using a Nationwide Claims Database"	Others (duplicate/ no original data used)	Authors' Reply
Mukai 2020	Trends Associated with Hemorrhoids in Japan: Data Mining of Medical Information Datasets and the National Database of Health Insurance Claims and Specific Health Checkups of Japan (NDB) Open Data Japan	Using published open data	NDB Open data
Murakami 2015	Ecological Analysis of Factors Associated with Mortality of Cerebral Infarction in Japan	Using published open data	opened results of first research attempt to apply the NDB for planning of RHCP
Murata 2012	[Preoperative antimicrobial therapy for patients with cholecystectomy for acute cholecystitis based on the administrative database associated with the Diagnosis Procedure Combination system]	Duplicates	Duplicate (村田2012)
Murata 2014	Claims Database Analysis Of Patients With Chronic Hepatitis C In Japan	Others (duplicate/ no original data used)	
Murata 2015	Circumstance of endoscopic and laparoscopic treatments for gastric cancer in Japan: A review of epidemiological studies using a national administrative database	Review article	A review
Mushiroda 2018	Association of HLA-A*31:01 Screening With the Incidence of Carbamazepine-Induced Cutaneous Adverse Reactions in a Japanese Population	Combined with primary research	genetic screening
Nagai 2020	Data resource profile: JMDC claims databases sourced from Medical Institutions	Review article	Data resource profile
Nagakura 2021	The Significant Association between Health Examination Results and Population Health: A Cross-Sectional Ecological Study Using a Nation-Wide Health Checkup Database in Japan	No health insurance claims data used	Health Checkup Database
Nagata 2018	Total Health-Related Costs Due to Absenteeism, Presenteeism, and Medical and Pharmaceutical Expenses in Japanese Employers	Combined with primary research	self-administered questionnaire
Nagata 2020	Work functioning impairment in the course of pharmacotherapy treatment for depression	Combined with primary research	using a questionnaire
Nakagawa 2011	A new accounting system for financial balance based on personnel cost after the introduction of a DPC/DRG system	Hospital-based (<10 institutes)	Single-center
Nakagoe 2015	Surgical risk model for acute diffuse peritonitis based on a Japanese nationwide database: an initial report on the surgical and 30-day mortality	No health insurance claims data used	National Clinical Database
Nakagoe 2015	Erratum to: Surgical risk model for acute diffuse peritonitis based on a Japanese nationwide database: an initial report on the surgical and 30-day mortality	Others (duplicate/ no original data used)	NCD, erratum
Nakai 2018	Response to flutamide, as second-line therapy after bicalutamide, predicts efficacy of abiraterone, not that of enzalutamide	No health insurance claims data used	at Nara Medical University Hospita
Nakajima 2015	[Examination of the Difference in Medical Treatment Contents According to Major Diagnostic Category of Hospital Group I and Group II Using the Diagnosis Procedure Combination Survey Data]	Using published open data	DPC data (MHLW)
Nakajima 2015	Examination of diagnosis procedure combination survey data that influence function evaluation coefficient II	Using published open data	DPC data (MHLW)
Nakajima 2016	Type Classification Based on Inpatient Ratio According to Major Diagnosis Category of Group II in the Diagnosis Procedure Combination System	Using published open data	DPC data (MHLW)
Nakajima 2017	Examination of Factors that Influence the Operation Income and Expenditure Balance Difference Rate of 20 Educational Foundation Universities	Using published open data	DPC data (MHLW)
Nakakita 2021	Standard table direct anterior approach within an early discharge protocol for cementless total hip arthroplasty: experience from a Japanese hospital	Hospital-based (<10 institutes)	single-center
Nakamura 2016	Diagnosis Procedure Combination Database Would Develop Nationwide Clinical Research in Japan	Review article	Review
Nakao 2020	Research in Japan Trends and outcomes of blunt renal trauma management: a nationwide cohort study in Japan	No health insurance claims data used	the Japan Trauma Data Bank (JTDB)
Nakashima 2021	Impact of Enteral Nutrition Within 24 Hours Versus Between 24 and 48 Hours in Patients	No health insurance claims data used	a multi-center cohort study
	With Severe Acute Pancreatitis: A Multicenter Retrospective Study		

Nakayama 2017	Analysis of the evidence-practice gap to facilitate proper medical care for the elderly: investigation, using databases, of utilization measures for National Database of Health	Others (duplicate/ no original data used)	study protocol
Nishi 2016	Insurance Claims and Specific Health Checkups of Japan (NDB) Effects of Eating Fast and Eating Before Bedtime on the Development of Nonalcoholic	Others (duplicate/ no original data	Not available
Nishi 2020	Fatty Liver Disease	used) Using published open data	NDB Open data
	Regional variance in the use of urine dipstick test for outpatients in Japan		
Nishigori 2015 Nishikawa 2021	[Review of the health technology assessment on surgeries in Japan] Prognostic Effect of Incidental Pulmonary Embolism on Long-Term Mortality in Cancer	Review article Hospital-based (<10 institutes)	Review single-center
Nishimura 2015	Patients Big data visualization of acute stroke care practices using a nationwide neurosurgeon	Review article	Review
Nishimura 2016	survey Status and Future Perspectives of Utilizing Big Data in Neurosurgical and Stroke	Review article	Review
	Research		
Nishimura 2020 Niu 2012	Role of comprehensive stroke centers in stroke care C-reactive protein (CRP) is a predictor of high medical-care expenditures in a	Review article Combined with primary research	Review Tsurugaya project, a population-
Noguchi 2020	community-based elderly population aged 70 years and over: The Tsurugaya project Japan Trial in High-Risk Individuals to Enhance Their Referral to Physicians (J-HARP)-A	Combined with primary research	based longitudinal study a clustered randomized controlled
Nonaka 2018	Nurse-Led, Community-Based Prevention Program of Lifestyle-Related Disease Incidence of aspiration pneumonia during hospitalization in Japanese hospitalized cases	Hospital-based (<10 institutes)	trial Saga University Hospital
	did not increase whereas concern factors were exacerbated in a time-dependent		
Nonaka 2018	manner: analysis of Diagnosis Procedure Combination (DPC) data A Cost-benefit Analysis of Percutaneous Coronary Intervention and Coronary Artery	Hospital-based (<10 institutes)	Saga University Hospital
Nordstrom 2020	Bypass Grafting using Reimbursement Data of Japan: A Single-center Pilot Study Incidence of venous thromboembolism among postmenopausal women prescribed	Not Japanese population	
	ospemifene, selective estrogen receptor modulators for noncancer indications, or untreated vulvar and vaginal atrophy		
Obara 2021	[Study on the Safety of Perinatal Medication]	Review article	Review
Obata 2020	The clinical usage of liposomal amphotericin B in patients receiving renal replacement therapy in Japan: a nationwide observational study	Duplicates	Duplicate (Obata 2021)
Okada 2021	Big data and real-world data-based medicine in the management of hypertension	Review article	Review
Okamoto 2010	Declining accuracy in disease classification on health insurance claims: should we	Using published open data	National Health Insurance Medical
Okamoto 2013	reconsider classification by principal diagnosis? Qualitative evaluation of the supporting system for diagnosis procedure combination	No health insurance claims data	Benefit Survey (NHIMBS) Qualitative Evaluation
	code selection	used	
Okamoto 2014	Linkage rate between data from health checks and health insurance claims in the Japan National Database	Using published open data	Four publicly available datasets
Okawara 2020	Association between the course of hypnotics treatment for insomnia and work functioning impairment in Japanese workers	Combined with primary research	a questionnaire survey
Okui 2021	An Age-Period-Cohort Analysis of Prevalence and Consultation Rate for Dyslipidemia in Japan	Using published open data	NDB Open data
Okumura 2014	[Trends of psychotropic medication use among children and adolescents in Japan data from the national insurance claims database between 2002 and 2010]	Duplicates	Duplicate (奥村 2014)
Okumura 2015	Trends in use of psychotropic medications among patients treated with cholinesterase inhibitors in Japan from 2002 to 2010	Using published open data	Survey of Medical Care Activities in Public Health Insurance
Ono 2019	Impact of care coordination on oral anticoagulant therapy among patients with atrial fibrillation in routine clinical practice in Japan: a prospective, observational study	Combined with primary research	a multi-center, single-arm, prospective cohort study
Onoue 2018	Trends in Polypharmacy in Japan: A Nationwide Retrospective Study	Using published open data	Survey of Medical Care Activities in Public Health Insurance
Otaki 2017	Analysis of Closed Claims in the Clinical Management of Rheumatoid Arthritis in Japan	No health insurance claims data used	Closed claims
Otsuki 2021	Characteristics and Burden of Diagnostic Error-Related Malpractice Claims in Neurosurgery	No health insurance claims data used	malpractice claims database
Ozaki 2019	Quality of primary care provided in community clinics in Japan	No health insurance claims data	medical chart review
Ryu 2011	The benchmark analysis of gastric, colorectal and rectal cancer pathways: toward	used Hospital-based (<10 institutes)	five participating cancer centers
Sado 2016	establishing standardized clinical pathway in the cancer care Socio-environmental factors associated with diabetes mellitus among patients	Hospital-based (<10 institutes)	single-center
Saito 2010	hospitalized with schizophrenia in Japan Copayment level and drug switching: Findings for type 2 diabetes	Not Japanese population	
Saito 2011	Hospice care and survival among elderly patients with lung cancer	Not Japanese population	
Sakai 2013	[DPC data based situation analysis of Regional Core Hospital: an application of the GIS Methodology for Regional Health Care Plans]	Hospital-based (<10 institutes)	Single-center
Sakai 2013	[Evaluation of the application of the clinical pathway using Diagnosis Procedure Combination (DPC) data]	Hospital-based (<10 institutes)	single-center
Sakamoto 2019	Editorial Comment from Dr Sakamoto to Endurological treatment trend of upper urinary urolithiasis in Japan from the Japanese Diagnosis Procedure Combination Database	Others (duplicate/ no original data used)	Editorial comment
Sakata 2020	A Study on the Status of Proton Pump Inhibitor Prescriptions Using Diagnosis Procedure	Hospital-based (<10 institutes)	single-center
Saokaew 2015	Combination Data in Japan Healthcare databases in Thailand and Japan: Potential sources for health technology	Review article	review study
Sasaki 2019	assessment research Does hospital information technology infrastructure promote the implementation of	Combined with primary research	questionnaire survey
	clinical practice guidelines? A multicentre observational study of Japanese hospitals Significance of estimated glomerular filtration rate in predicting brain or heart attacks in	No health insurance claims data	Specific Health Checkup database
Sato 2015		used	
Sato 2015 Sato 2016	obese and non-obese populations Association between periodontitis and medical expenditure in older adults: A 33-month	Combined with primary research	Niigata Study (a prospective
	obese and non-obese populations Association between periodontitis and medical expenditure in older adults: A 33-month follow-up study Estimation of total prescription weights of active pharmaceutical ingredients in human		Niigata Study (a prospective community-based study) NDB Open data

Sato 2019	Novel Analytics Framework for Universal Healthcare Insurance Database	Using published open data	based on the results of previous
Sato 2019	Novel Analytics Framework for Universal Healthcare Insurance Claims Database	No health insurance claims data used	analyses Case Study
Sato 2021	Disproportionality by sex in the prescription of drugs capable of inducing parkinsonism for the elderly: A survey using statistics of Japanese national health claims from 2014 to 2017	Using published open data	NDB Open data
Sekimoto 2010	Risk-adjusted assessment of incidence and quantity of blood use in acute-care hospitals in Japan: an analysis using administrative data	Hospital-based (<10 institutes)	two hospitals
Shibahashi 2021	Derivation and validation of a quantitative screening model for blunt cerebrovascular injury	No health insurance claims data used	Japan Trauma database
Shibata 2019	Correction to: Influenza vaccination effectiveness for people aged under 65 years in Japan, 2013/ 2014 season: application of a doubly robust method to a large-scale, real- world dataset	Others (duplicate/ no original data used)	Correction
Shida 2010	[Image examination of malignant tumors in lungs observed on the basis of cost analysis using diagnosis procedure combination data]	Hospital-based (<10 institutes)	Single-center
Shikamura 2012	[Medical economics research on awareness of community pharmacists about raising pharmaceutical questions regarding prescriptions issued by physicians]	Combined with primary research	surveying the actual condition of pharmaceutical inquiries
Shimazaki 2020	Association between dental consultation and oral health status among male Japanese employees	Others (duplicate/ no original data used)	a company
Shiratori 2021	Association between the chronic use of gastric acid suppressants and high-risk colorectal polyps	Hospital-based (<10 institutes)	nine high-volume hospitals
Shiroiwa 2014	Treatment Costs for Breast Cancer in Japan: Large Claim Database Analysis	Others (duplicate/ no original data used)	Abstract
Shiroiwa 2017	Cost-effectiveness analysis of the introduction of S-1 therapy for first-line metastatic breast cancer treatment in Japan: results from the randomized phase III SELECT BC trial	Combined with primary research	(expected cost was calculated using patient-level claim data)
Shoji 2011	Assessing a Clinical Pathway to Improve the Quality of Care in Pulmonary Resections	Hospital-based (<10 institutes)	single-center
Sugawara 2020	Association of moderately abnormal behavior and administered neuraminidase inhibitors	Using published open data	NDB Open data
Sugihara 2019	Regional clinical practice variation in urology: Usage example of the Open Data of the National Database of Health Insurance Claims and Specific Health Checkups of Japan	Using published open data	NDB Open data
Sugisaki 2018	Correction to: A case-control study of the risk of upper gastrointestinal mucosal injuries in patients prescribed concurrent NSAIDs and antithrombotic drugs based on data from	Others (duplicate/ no original data used)	correction
Suzuki 2010	the Japanese national claims database of 13 million accumulated patients Auto-selection of DRG codes from discharge summaries by text mining in several	Hospital-based (<10 institutes)	three Hospitals
Takaku 2017	hospitals: analysis of difference of discharge summaries Do benefits in kind or refunds affect health service utilization and health outcomes? A natural experiment from Japan	No health insurance claims data used	
Takatori 2019	Impaired activity of daily living is a risk factor for high medical cost in patients of non- variceal upper gastrointestinal bleeding	Hospital-based (<10 institutes)	Single-center
Takayama 2017		Hospital-based (<10 institutes)	Ibaraki Prefectural Central Hospital
Takeda 2017	The current situation and issues of the secondary use of electronic medical record data	No health insurance claims data used	electronic medical record data
Takeda 2020	Correction to: Prophylactic sivelestat for esophagectomy and in-hospital mortality: a propensity score-matched analysis of claims database	Others (duplicate/ no original data used)	Correction
Takeuchi 2014	A risk model for esophagectomy using data of 5354 patients included in a Japanese nationwide web-based database	No health insurance claims data used	National Clinical Database (NCD)
Takeuchi 2017	Comparison of Short-Term Outcomes Between Open and Minimally Invasive Esophagectomy for Esophageal Cancer Using a Nationwide Database in Japan	No health insurance claims data used	NCD
Takeuchi 2018	Association between Hemoglobin and Hemoglobin A1c: A Data-Driven Analysis of Health Checkup Data in Japan	No health insurance claims data used	Health Checkup Data
Takura 2010	[Study on medical economic evaluation methods for metastatic brain tumors therapy]	Combined with primary research	QOL assessment (EQ-5D, SF-36)
Takura 2019	Health Economics - Effect of Electronic Medical Record Systems on Cardiovascular Disease Outpatient Consultation Time	Combined with primary research	Electronic Medical Record Systems
Takusari 2021	Trends in Hip Fracture Incidence in Japan: Estimates Based on Nationwide Hip Fracture Surveys From 1992 to 2017	No health insurance claims data used	Nationwide Hip Fracture Surveys
Tang 2019	The evaluation of the economic burden caused by delay in the diagnosis and treatment for patients with diabetes mellitus based on Japanese medical big data	Others (duplicate/ no original data used)	Chinese
Tasaki 2012	Visualization Model for Medical Care Processes by Utilizing Japanese Case-mix Classification and its Application to the Variance Analysis of Clinical Pathway	Hospital-based (<10 institutes)	Saiseikai Kumamoto Hospital
Terahara 2019	Carbapenem-resistant Pseudomonas aeruginosa and carbapenem use in Japan: an ecological study	Using published open data	The AMR Clinical Reference Centre of National Centre for Global Health and Medicine
Tochitani 2020	Longitudinal association between mental health and future antibiotic prescriptions in healthy adults: Results from the LOHAS	Combined with primary research	prospective cohort study
Tokuda 2011	Cognitive error as the most frequent contributory factor in cases of medical injury: a study on verdict's judgment among closed claims in Japan	No health insurance claims data used	closed claims
Toyoda 2015	Visualization-based medical expenditure analysis support system	Others (duplicate/ no original data used)	Not available
Toyoshima 2018	Workers' sleep condition and related disorders in Japan: an analysis based on health insurance claim data and questionnaire	Others (duplicate/ no original data used)	among workers in a company
Tsuchiya 2014	[Information technology for ensuring drug safety]	Review article	Symposium Review
Tsuda 2017	Effect on Helicobacter pylori eradication therapy against gastric cancer in Japan	Using published open data	NDB Open data
Tsuji 2015	How to Measure the Long-term Effect of e-Health: Application of DID-PSM	Combined with primary research	National Health Insurance + mail survey
	Patterns of prescribing radiotherapy and bevacizumab in nationwide practice - analysis	Duplicates	duplicate (Tsukada 2016)

Tsukamoto 2016	Have Case Loads of Radical Surgery for Prostate Cancer Been Concentrated in Hospitals with Robotic Equipment ?Analyses with Questionnaire Survey and Diagnostic Procedure Combination (DPC) Data	Combined with primary research	questionnaire survey
Tsutsumi 2020	Correction to: Impact of oral voriconazole during chemotherapy for acute myeloid leukemia and myelodysplastic syndrome: a Japanese nationwide retrospective cohort study	Others (duplicate/ no original data used)	Correction
Uchimoto 2019	Prognostic impact of C-reactive protein-albumin ratio for the lethality in castration- resistant prostate cancer	No health insurance claims data used	collected clinical records
Uenishi 2010	[Nutrition and bone health. Food for specified health use (FOSHU) and bone health]	Others (duplicate/ no original data used)	different theme
Usuki 2020	Retraction statement: National database study on the use of long-acting antipsychotic injections and hospital readmission proportions in patients with schizophrenia in Japan	Others (duplicate/ no original data used)	Retraction
Usuki 2020	National database study on the use of long-acting antipsychotic injections and hospital readmission proportions in patients with schizophrenia in Japan	Others (duplicate/ no original data used)	Retraction
Wada 2011		Using published open data	DPC data (MHLW)
Wang 2010	Impact of the Japanese diagnosis procedure combination-based payment system in Japan	Using published open data	DPC hospitals (disk: MHLW)
Watanabe 2019	Japanese Case of Enzalutamide-Resistant Prostate Cancer Harboring a SPOP Mutation With Scattered Allelic Imbalance: Response to Platinum-Based Therapy	Others (duplicate/ no original data used)	Case Report
Watanabe 2020		No health insurance claims data used	The Nationwide Follow-up Survey of Primary Liver Cancer
Yamada 2015	Surgical Outcomes of Patients With Stage III Thymoma in the Japanese Nationwide	No health insurance claims data	a nationwide study on thymoma
Yamada 2020	Database Prevalence and clinical characteristics of children with medical complexity in Tottori	used Hospital-based (<10 institutes)	(JART) three hospitals
	Prefecture, Japan: A population-based longitudinal study		
Yamaguchi 2019	Flutamide as an Alternative Anti-androgen Agent and Predictor of the Efficacy of Novel Androgen Receptor-targeted Agents	No health insurance claims data used	medical records
Yamamoto 2014	[Privacy and public benefit in using large scale health databases]	Review article	Symposium Review
Yamamoto 2016	Large-scale Health Information Database and Privacy Protection	Review article	Conferences and Lectures
Yamamoto 2018	Perforation and Postoperative Bleeding Associated with Endoscopic Submucosal	No health insurance claims data	Saga Medical School and Saga-ke
Yamamoto 2019	Dissection in Colorectal Tumors: An Analysis of 398 Lesions Treated in Saga, Japan Resuscitative endovascular balloon occlusion of the aorta (REBOA) is associated with	used No health insurance claims data	Medical Centre Koseikan Japan Trauma Data Bank
Yamanaka 2020	improved survival in severely injured patients: A propensity score matching analysis [Using Real World Data in Cancer Clinical Studies]	used Review article	Review
Yamashita 2017	-	Duplicates	Duplicate (山下2017)
Yamauchi 2019	therapeutic practice (SHORT-J)	Na haalth inguranga alaima data	a nationwide registry of nationte
ramauchi 2019	Evaluation of neurofibromatosis type 1 progression using a nationwide registry of patients who submitted claims for medical expense subsidies in Japan between 2008 and 2012	No health insurance claims data used	a nationwide registry of patients who submitted claims to receive medical expense subsidies
Yanai 2016	Syndrome of inappropriate antidiuretic hormone secretion in a patient with castration- resistant prostate cancer treated with enzalutamide	No health insurance claims data used	letter to the editor
Yang 2011	Impact of physical activity and performance on medical care costs among the Japanese elderly	Combined with primary research	with a self-administered questionnaire
Yano 2012	Association between prehypertension and chronic kidney disease in the Japanese general population	No health insurance claims data used	a nationwide Japanese database
Yasunaga 2010	Clinical features of bowel anisakiasis in Japan	Duplicates	Duplicate (Yasunaga 2010)
Yasunaga 2014	[Application of the diagnosis procedure combination (DPC) data to clinical studies]	Review article	Review
Yoshida 2010			
Yoshimura 2018	Health insurance and payment systems for severe acute pancreatitis Survey of anticonvulsant drugs and lithium prescription in women of childbearing age in	Review article Using published open data	Guidelines NDB Open data
	Health insurance and payment systems for severe acute pancreatitis Survey of anticonvulsant drugs and lithium prescription in women of childbearing age in Japan using a public national insurance claims database Comparison of public and private care management agencies under public long-term	Using published open data No health insurance claims data	NDB Open data
Yoshioka 2010	Health insurance and payment systems for severe acute pancreatitis Survey of anticonvulsant drugs and lithium prescription in women of childbearing age in Japan using a public national insurance claims database	Using published open data	NDB Open data Long-Term Care Insurance (LTCI) a nationwide inpatient clinical
Yoshioka 2010 Zaitsu 2016	Health insurance and payment systems for severe acute pancreatitis Survey of anticonvulsant drugs and lithium prescription in women of childbearing age in Japan using a public national insurance claims database Comparison of public and private care management agencies under public long-term care insurance in Japan: a cross-sectional study Risk of alcohol consumption in bladder cancer: Case-control study from a nationwide inpatient database in japan An international investigation into AB plasma administration in hospitals: how many AB	Using published open data No health insurance claims data used No health insurance claims data used No health insurance claims data	NDB Open data Long-Term Care Insurance (LTCI)
Yoshioka 2010 Zaitsu 2016 Zeller 2018	Health insurance and payment systems for severe acute pancreatitis Survey of anticonvulsant drugs and lithium prescription in women of childbearing age in Japan using a public national insurance claims database Comparison of public and private care management agencies under public long-term care insurance in Japan: a cross-sectional study Risk of alcohol consumption in bladder cancer: Case-control study from a nationwide inpatient database in japan An international investigation into AB plasma administration in hospitals: how many AB plasma units were infused? The HABSWIN study [Evaluation of DPC classification by Decision tree method : Analysis and discussion about	Using published open data No health insurance claims data used No health insurance claims data used No health insurance claims data used	NDB Open data Long-Term Care Insurance (LTCI) a nationwide inpatient clinical
Yoshioka 2010 Zaitsu 2016 Zeller 2018 Abe 2014	Health insurance and payment systems for severe acute pancreatitis Survey of anticonvulsant drugs and lithium prescription in women of childbearing age in Japan using a public national insurance claims database Comparison of public and private care management agencies under public long-term care insurance in Japan: a cross-sectional study Risk of alcohol consumption in bladder cancer: Case-control study from a nationwide inpatient database in japan An international investigation into AB plasma administration in hospitals: how many AB plasma units were infused? The HABSWIN study [Evaluation of DPC classification by Decision tree method : Analysis and discussion about pneumonia] [Factors related to life expectancy in prefectures: An ecological study using the National	Using published open data No health insurance claims data used No health insurance claims data used No health insurance claims data used Hospital-based (<10 institutes) No health insurance claims data	NDB Open data Long-Term Care Insurance (LTCI) a nationwide inpatient clinical
Yoshioka 2010 Zaitsu 2016 Zeller 2018 Abe 2014 Inoue 2019	Health insurance and payment systems for severe acute pancreatitis Survey of anticonvulsant drugs and lithium prescription in women of childbearing age in Japan using a public national insurance claims database Comparison of public and private care management agencies under public long-term care insurance in Japan: a cross-sectional study Risk of alcohol consumption in bladder cancer: Case-control study from a nationwide inpatient database in japan An international investigation into AB plasma administration in hospitals: how many AB plasma units were infused? The HABSWIN study [Evaluation of DPC classification by Decision tree method : Analysis and discussion about pneumonia] [Factors related to life expectancy in prefectures: An ecological study using the National Database] [The Factors of Disparity Related to the Life Expectancy among Prefectures : an Analysis	Using published open data No health insurance claims data used No health insurance claims data used No health insurance claims data used Hospital-based (<10 institutes) No health insurance claims data used	NDB Open data Long-Term Care Insurance (LTCI) a nationwide inpatient clinical database
Yoshioka 2010 Zaitsu 2016 Zeller 2018 Abe 2014 Inoue 2019 Inoue 2019	Health insurance and payment systems for severe acute pancreatitis Survey of anticonvulsant drugs and lithium prescription in women of childbearing age in Japan using a public national insurance claims database Comparison of public and private care management agencies under public long-term care insurance in Japan: a cross-sectional study Risk of alcohol consumption in bladder cancer: Case-control study from a nationwide inpatient database in japan An international investigation into AB plasma administration in hospitals: how many AB plasma units were infused? The HABSWIN study [Evaluation of DPC classification by Decision tree method : Analysis and discussion about pneumonia] [Factors related to life expectancy in prefectures: An ecological study using the National Database]	Using published open data No health insurance claims data used No health insurance claims data used No health insurance claims data used Hospital-based (<10 institutes) No health insurance claims data used No health insurance claims data used	NDB Open data Long-Term Care Insurance (LTCI) a nationwide inpatient clinical database Health Checkup Database
Yoshioka 2010 Zaitsu 2016 Zeller 2018 Abe 2014 Inoue 2019 Inoue 2019 Uryu 2012	Health insurance and payment systems for severe acute pancreatitis Survey of anticonvulsant drugs and lithium prescription in women of childbearing age in Japan using a public national insurance claims database Comparison of public and private care management agencies under public long-term care insurance in Japan: a cross-sectional study Risk of alcohol consumption in bladder cancer: Case-control study from a nationwide inpatient database in japan An international investigation into AB plasma administration in hospitals: how many AB plasma units were infused? The HABSWIN study [Evaluation of DPC classification by Decision tree method : Analysis and discussion about pneumonia] [Factors related to life expectancy in prefectures: An ecological study using the National Database] [The Factors of Disparity Related to the Life Expectancy among Prefectures : an Analysis Using the National Data Base : Ecological Study] [Changes in medical treatment fees for pneumococcal pneumonia in our hospital before	Using published open data No health insurance claims data used No health insurance claims data used No health insurance claims data used Hospital-based (<10 institutes) No health insurance claims data used No health insurance claims data used Hospital-based (<10 institutes)	NDB Open data Long-Term Care Insurance (LTCI) a nationwide inpatient clinical database Health Checkup Database Health Checkup Database
Yoshioka 2010 Zaitsu 2016 Zeller 2018 Abe 2014 Inoue 2019 Inoue 2019 Uryu 2012 Endo 2012	Health insurance and payment systems for severe acute pancreatitis Survey of anticonvulsant drugs and lithium prescription in women of childbearing age in Japan using a public national insurance claims database Comparison of public and private care management agencies under public long-term care insurance in Japan: a cross-sectional study Risk of alcohol consumption in bladder cancer: Case-control study from a nationwide inpatient database in japan An international investigation into AB plasma administration in hospitals: how many AB plasma units were infused? The HABSWIN study [Evaluation of DPC classification by Decision tree method : Analysis and discussion about pneumonia] [Factors related to life expectancy in prefectures: An ecological study using the National Database] [The Factors of Disparity Related to the Life Expectancy among Prefectures : an Analysis Using the National Data Base : Ecological Study] [Changes in medical treatment fees for pneumococcal pneumonia in our hospital before and after the introduction of DPC] [Economical Optimization of the Inpatient's Visit to Dermatology Department : Simulation	Using published open data No health insurance claims data used No health insurance claims data used No health insurance claims data used Hospital-based (<10 institutes) No health insurance claims data used No health insurance claims data used Hospital-based (<10 institutes)	NDB Open data Long-Term Care Insurance (LTCI) a nationwide inpatient clinical database Health Checkup Database Health Checkup Database Single-center
Yoshimura 2018 Yoshioka 2010 Zaitsu 2016 Zeller 2018 Abe 2014 Inoue 2019 Uryu 2012 Endo 2012 Okumura 2014 Oka 2016	Health insurance and payment systems for severe acute pancreatitis Survey of anticonvulsant drugs and lithium prescription in women of childbearing age in Japan using a public national insurance claims database Comparison of public and private care management agencies under public long-term care insurance in Japan: a cross-sectional study Risk of alcohol consumption in bladder cancer: Case-control study from a nationwide inpatient database in japan An international investigation into AB plasma administration in hospitals: how many AB plasma units were infused? The HABSWIN study [Evaluation of DPC classification by Decision tree method : Analysis and discussion about pneumonia] [Factors related to life expectancy in prefectures: An ecological study using the National Database] [The Factors of Disparity Related to the Life Expectancy among Prefectures : an Analysis Using the National Data Base : Ecological Study] [Changes in medical treatment fees for pneumococcal pneumonia in our hospital before and after the introduction of DPC] [Economical Optimization of the Inpatient's Visit to Dermatology Department : Simulation Study] [Trends of psychotropic medication use among children and adolescents in Japan data from the national insurance claims database between 2002 and 2010] [Practical use of the data in a patient ward change of function] [Prectical use of the data in a patient ward change of function]	Using published open data No health insurance claims data used No health insurance claims data used No health insurance claims data used Hospital-based (<10 institutes) No health insurance claims data used No health insurance claims data used Hospital-based (<10 institutes) Using published open data Hospital-based (<10 institutes)	NDB Open data Long-Term Care Insurance (LTCI) a nationwide inpatient clinical database Health Checkup Database Health Checkup Database Single-center Single-center Statistics of Medical Care Activities in Public Health Insurance
Yoshioka 2010 Zaitsu 2016 Zeller 2018 Abe 2014 Inoue 2019 Inoue 2019 Uryu 2012 Endo 2012 Okumura 2014	Health insurance and payment systems for severe acute pancreatitis Survey of anticonvulsant drugs and lithium prescription in women of childbearing age in Japan using a public national insurance claims database Comparison of public and private care management agencies under public long-term care insurance in Japan: a cross-sectional study Risk of alcohol consumption in bladder cancer: Case-control study from a nationwide inpatient database in japan An international investigation into AB plasma administration in hospitals: how many AB plasma units were infused? The HABSWIN study [Evaluation of DPC classification by Decision tree method : Analysis and discussion about pneumonia] [Factors related to life expectancy in prefectures: An ecological study using the National Database] [The Factors of Disparity Related to the Life Expectancy among Prefectures : an Analysis Using the National Data Base : Ecological Study] [Changes in medical treatment fees for pneumococcal pneumonia in our hospital before and after the introduction of DPC] [Economical Optimization of the Inpatient's Visit to Dermatology Department : Simulation Study] [Trends of psychotropic medication use among children and adolescents in Japan data from the national insurance claims database between 2002 and 2010] [Practical use of the data in a patient ward change of function] [Do the prices of DPC (diagnosis-procedure-combination) hospitals reflect their quality of care? : The relationship between the price levels and the quality of care as measured	Using published open data No health insurance claims data used No health insurance claims data used No health insurance claims data used Hospital-based (<10 institutes) No health insurance claims data used No health insurance claims data used Hospital-based (<10 institutes) Hospital-based (<10 institutes) Using published open data	NDB Open data Long-Term Care Insurance (LTCI) a nationwide inpatient clinical database Health Checkup Database Health Checkup Database Single-center Single-center Statistics of Medical Care Activities in Public Health Insurance
Yoshioka 2010 Zaitsu 2016 Zeller 2018 Abe 2014 Inoue 2019 Inoue 2019 Uryu 2012 Endo 2012 Okumura 2014 Oka 2016	Health insurance and payment systems for severe acute pancreatitis Survey of anticonvulsant drugs and lithium prescription in women of childbearing age in Japan using a public national insurance claims database Comparison of public and private care management agencies under public long-term care insurance in Japan: a cross-sectional study Risk of alcohol consumption in bladder cancer: Case-control study from a nationwide inpatient database in japan An international investigation into AB plasma administration in hospitals: how many AB plasma units were infused? The HABSWIN study [Evaluation of DPC classification by Decision tree method : Analysis and discussion about pneumonia] [Factors related to life expectancy in prefectures: An ecological study using the National Database] [The Factors of Disparity Related to the Life Expectancy among Prefectures : an Analysis Using the National Data Base : Ecological Study] [Changes in medical treatment fees for pneumococcal pneumonia in our hospital before and after the introduction of DPC] [Economical Optimization of the Inpatient's Visit to Dermatology Department : Simulation Study] [Trends of psychotropic medication use among children and adolescents in Japan data from the national insurance claims database between 2002 and 2010] [Practical use of the data in a patient ward change of function] [Do the prices of DPC (diagnosis-procedure-combination) hospitals reflect their quality	Using published open data No health insurance claims data used No health insurance claims data used No health insurance claims data used Hospital-based (<10 institutes) No health insurance claims data used No health insurance claims data used Hospital-based (<10 institutes) Using published open data Hospital-based (<10 institutes)	NDB Open data Long-Term Care Insurance (LTCI) a nationwide inpatient clinical database Health Checkup Database Health Checkup Database Single-center Single-center Statistics of Medical Care Activities in Public Health Insurance

Kato 2020	-		
	[Efforts to achieve proper use of sleeping pills using the sleeping pill formula/NDB open database]*	Hospital-based (<10 institutes)	single-center
Kawai 2011	[Economic Benefits and Problems concerning the Introduction of Generic Drugs in a Hospital with a DPC System]	No health insurance claims data used	questionnaire survey
Kawai 2014	[Effort for regional medical analysis using DPC data and Quantum GIS (QGIS)]	Hospital-based (<10 institutes)	single-center
Kono 2018	[Hospital Mortality of Spinal Infection : Results from Japanese Nationwide Diagnosis Procedure Combination Database]	Using published open data	DPC data (MHLW)
oyama 2014	[C2-4 Changing in Activities of Daily Living in the Hospital Stay]	Hospital-based (<10 institutes)	5 hospitals
Gamazawa 2013	[Utilization of out-of-hospital prescriptions for remote areas during disasters Examples	No health insurance claims data	Survey
	from the 2011 Great East Japan Earthquake]	used	
wata 2021	[Survey of Dementia Drugs and PIM and Multi-Drug Combinations Using NDB Open Data]*	Using published open data	NDB Open data
Yoshinaga 2013	[An approach for improving clinical process using Hospital Information System(HIS) data]	Hospital-based (<10 institutes)	Single-center
Yoshimi 2018	[Comparison of prefectures using items related to smoking and quitting smoking in the 2nd NDB Open Data]*	Using published open data	NDB Open data
Kubo 2018	[DPC system for treatment of facial nerve palsy]	Using published open data	DPC summary tables (MHLW)
Viyamoto 2010	[Influence on the outcome of the DPC cords by comparing Nissay Hospital with other medical institutions to which ICD10 cords and K-cords are applied]	Hospital-based (<10 institutes)	5 hospitals
Viyamoto 2013	[Strengths of our hospital by MDC analysis using DPC public data]*	Using published open data	DPC data (MHLW)
Kuchiki 2010	[Problems of DPC in stroke care]*	Using published open data	Brodula (inflett)
Cuchiki 2011	[Improvement of DPC in the Stroke Medical Care]	Hospital-based (<10 institutes)	"our treatment options"
Caneko 2018	[Factors affecting profit/loss at national university hospitals]	Using published open data	DPC data (MHLW)
Sinjo 2010	[Attempts at marketing using the impact assessment survey data of the introduction of DPC]*	Using published open data	DPC data (MHLW)
Komada 2017	[Surveillance to Determine Adverse Reactions to Carbamazepine and Lamotrigine:	Using published open data	NDB Open data
	Analysis of the "Japanese Adverse Drug Event Report", "Information on Adverse Reaction		
	Relief Benefits" and "Health] Insurance Claims and Specific Health Checkups of Japan"		
	Databases		
Kuriyama 2014	[Analysis of Cancer Treatment in Iwate Prefecture – An Analysis of Health Care Regions Based on MHLW DPC Data]	Duplicates	duplicate (Kuriyama 2014)
larada 2012	[Analysis of hospital stay in patients with cerebral apoplexy]	Hospital-based (<10 institutes)	single-center
uruichi 2010	[Effects and Problems of DPC (Diagnosis Procedure Combination): A Study on Femoral Neck Fractures]	Hospital-based (<10 institutes)	Single-center
uruta 2015		Combined with primary research	CGA
	[Estimation of prevalence of dementia among aged inpatients in general hospital]		
garashi 2020	[Estimating the Social and Economic Burden of Progressive Supranuclear Palsy in Japan]	Combined with primary research	patient/caregiver survey (medic /nonmedical costs and productivity loss)
Goto 2011	[Practical utility of the data of DPC as the management-tool in the hospital not adopting	Hospital-based (<10 institutes)	single-center
3010 2011	DPC]	Hospital-based (<10 Institutes)	Single-center
Aitsutake 2018	[The associations between readmission within 30 days and the medical institute factors among older patients receiving home medical care]	Duplicates	Duplicate (Mitsutake 2018)
Kudo 2018	[Comparison of caries severity between those who perform dental maintenance and those who do not and investigation of the importance of maintenance using big data]*	Others (duplicate/ no original data used)	Not available
Yasunaga 2016	[Clinical epidemiological study using integrated data of DPC data and test values]*	Others (duplicate/ no original data	
asunaga 2010	[Chinear epidemiological study using integrated data of Di C data and test values]	used)	
-	[A Trial for Improving Coverage Rate Indices in Diagnosis Procedure Combination- Designated Medical Institutions]	Hospital-based (<10 institutes)	Single-center
Fsunekawa 2020	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An	Hospital-based (<10 institutes) Using published open data	Single-center DPC data (MHLW)
Sunekawa 2020 Ehara 2014	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An analysis using DPC data]* [Current status of hospitalization of children by prefecture as estimated from NDB open		-
Ehara 2014 Ehara 2017	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An analysis using DPC data]* [Current status of hospitalization of children by prefecture as estimated from NDB open data]* [Importance of care process management in terms of financial perspective : based on	Using published open data Using published open data No health insurance claims data	DPC data (MHLW)
sunekawa 2020 Chara 2014 Chara 2017 Krai 2016	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An analysis using DPC data]* [Current status of hospitalization of children by prefecture as estimated from NDB open data]* [Importance of care process management in terms of financial perspective : based on knowledge of hospital managers] [Economic evaluation for the prevention of cervical cancer by vaccinationfrom	Using published open data Using published open data	DPC data (MHLW) NDB Open data
sunekawa 2020 Ihara 2014 Ihara 2017 Irai 2016 Irakawa 2013	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An analysis using DPC data]* [Current status of hospitalization of children by prefecture as estimated from NDB open data]* [Importance of care process management in terms of financial perspective : based on knowledge of hospital managers] [Economic evaluation for the prevention of cervical cancer by vaccinationfrom perspective of health insurance society and industry]	Using published open data Using published open data No health insurance claims data used Duplicates	DPC data (MHLW) NDB Open data questionnaire survey Duplicate (Alakawa 2013)
sunekawa 2020 ihara 2014 ihara 2017 xrai 2016 xrakawa 2013 iakahashi 2015	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An analysis using DPC data]* [Current status of hospitalization of children by prefecture as estimated from NDB open data]* [Importance of care process management in terms of financial perspective : based on knowledge of hospital managers] [Economic evaluation for the prevention of cervical cancer by vaccinationfrom perspective of health insurance society and industry] [The Characteristics of Income and Expenditure in MDC04C]	Using published open data Using published open data No health insurance claims data used Duplicates Hospital-based (<10 institutes)	DPC data (MHLW) NDB Open data questionnaire survey Duplicate (Alakawa 2013) 5 institutions
sunekawa 2020 hara 2014 hara 2017 rai 2016 rakawa 2013 akahashi 2015	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An analysis using DPC data]* [Current status of hospitalization of children by prefecture as estimated from NDB open data]* [Importance of care process management in terms of financial perspective : based on knowledge of hospital managers] [Economic evaluation for the prevention of cervical cancer by vaccinationfrom perspective of health insurance society and industry] [The Characteristics of Income and Expenditure in MDC04C] [Survey of opening clinical indicators of hospitals with DPC/PDPS in Hokkaido area]	Using published open data Using published open data No health insurance claims data used Duplicates Hospital-based (<10 institutes) Using published open data	DPC data (MHLW) NDB Open data questionnaire survey Duplicate (Alakawa 2013)
sunekawa 2020 ihara 2014 ihara 2017 irai 2016 irakawa 2013 iakahashi 2015 iakahashi 2018	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An analysis using DPC data]* [Current status of hospitalization of children by prefecture as estimated from NDB open data]* [Importance of care process management in terms of financial perspective : based on knowledge of hospital managers] [Economic evaluation for the prevention of cervical cancer by vaccinationfrom perspective of health insurance society and industry] [The Characteristics of Income and Expenditure in MDC04C]	Using published open data Using published open data No health insurance claims data used Duplicates Hospital-based (<10 institutes)	DPC data (MHLW) NDB Open data questionnaire survey Duplicate (Alakawa 2013) 5 institutions
sunekawa 2020 ihara 2014 ihara 2017 irai 2016 irakawa 2013 iakahashi 2015 iakahashi 2018 iakahashi 2020	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An analysis using DPC data]* [Current status of hospitalization of children by prefecture as estimated from NDB open data]* [Importance of care process management in terms of financial perspective : based on knowledge of hospital managers] [Economic evaluation for the prevention of cervical cancer by vaccinationfrom perspective of health insurance society and industry] [The Characteristics of Income and Expenditure in MDC04C] [Survey of opening clinical indicators of hospitals with DPC/PDPS in Hokkaido area]	Using published open data Using published open data No health insurance claims data used Duplicates Hospital-based (<10 institutes) Using published open data	DPC data (MHLW) NDB Open data questionnaire survey Duplicate (Alakawa 2013) 5 institutions DPC data (MHLW)
Fsunekawa 2020 Ehara 2014 Ehara 2017 Arai 2016 Arakawa 2013 Fakahashi 2015 Fakahashi 2018 Fakahashi 2020 Kurosaki 2020	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An analysis using DPC data]* [Current status of hospitalization of children by prefecture as estimated from NDB open data]* [Importance of care process management in terms of financial perspective : based on knowledge of hospital managers] [Economic evaluation for the prevention of cervical cancer by vaccinationfrom perspective of health insurance society and industry] [The Characteristics of Income and Expenditure in MDC04C] [Survey of opening clinical indicators of hospital stay in colon malignant tumors]	Using published open data Using published open data No health insurance claims data used Duplicates Hospital-based (<10 institutes) Using published open data Hospital-based (<10 institutes)	DPC data (MHLW) NDB Open data questionnaire survey Duplicate (Alakawa 2013) 5 institutions DPC data (MHLW) Single-center
Esunekawa 2020 Ehara 2014 Ehara 2017 Arai 2016 Arakawa 2013 Fakahashi 2015 Fakahashi 2018 Fakahashi 2020 Kurosaki 2020	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An analysis using DPC data]* [Current status of hospitalization of children by prefecture as estimated from NDB open data]* [Importance of care process management in terms of financial perspective : based on knowledge of hospital managers] [Economic evaluation for the prevention of cervical cancer by vaccinationfrom perspective of health insurance society and industry] [The Characteristics of Income and Expenditure in MDC04C] [Survey of opening clinical indicators of hospital say in colon malignant tumors] [Medical expenses for diabetes care in Japan: Analysis of inter-prefecture differences] [Survey on Off-Label Use of Antineoplastic Agents in Pediatric Patients using a Large-	Using published open data Using published open data No health insurance claims data used Duplicates Hospital-based (<10 institutes) Using published open data Hospital-based (<10 institutes) Duplicates	DPC data (MHLW) NDB Open data questionnaire survey Duplicate (Alakawa 2013) 5 institutions DPC data (MHLW) Single-center Duplicate (Kurosaki 2020) Duplicate (Kuroda 2020)
Fsunekawa 2020 Ehara 2014 Ehara 2017 Arai 2016 Arakawa 2013 Fakahashi 2015 Fakahashi 2018 Fakahashi 2020 Kurosaki 2020 Kuroda 2020	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An analysis using DPC data]* [Current status of hospitalization of children by prefecture as estimated from NDB open data]* [Importance of care process management in terms of financial perspective : based on knowledge of hospital managers] [Economic evaluation for the prevention of cervical cancer by vaccinationfrom perspective of health insurance society and industry] [The Characteristics of Income and Expenditure in MDC04C] [Survey of opening clinical indicators of hospital stay in colon malignant tumors] [Medical expenses for diabetes care in Japan: Analysis of inter-prefecture differences] [Survey on Off-Label Use of Antineoplastic Agents in Pediatric Patients using a Large-scale Medical Database in Japan] [A Survey on Hospital Formulary Development in Japan in 2015]	Using published open data Using published open data No health insurance claims data used Duplicates Hospital-based (<10 institutes) Using published open data Hospital-based (<10 institutes) Duplicates Duplicates No health insurance claims data used	DPC data (MHLW) NDB Open data questionnaire survey Duplicate (Alakawa 2013) 5 institutions DPC data (MHLW) Single-center Duplicate (Kurosaki 2020) Duplicate (Kuroda 2020) questionnaire survey for medical institutions
Fsunekawa 2020 Ehara 2014 Ehara 2017 Arai 2016 Arakawa 2013 Fakahashi 2015 Fakahashi 2018 Fakahashi 2020 Kurosaki 2020 Kuroda 2020	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An analysis using DPC data]* [Current status of hospitalization of children by prefecture as estimated from NDB open data]* [Importance of care process management in terms of financial perspective : based on knowledge of hospital managers] [Economic evaluation for the prevention of cervical cancer by vaccinationfrom perspective of health insurance society and industry] [The Characteristics of Income and Expenditure in MDC04C] [Survey of opening clinical indicators of hospital stay in colon malignant tumors] [Medical expenses for diabetes care in Japan: Analysis of inter-prefecture differences] [Survey on Off-Label Use of Antineoplastic Agents in Pediatric Patients using a Large-scale Medical Database in Japan] [A Survey research group based on DPC data regarding the implementation status of standard drug treatment and clinical outcomes: A study on the implementation status	Using published open data Using published open data No health insurance claims data used Duplicates Hospital-based (<10 institutes) Using published open data Hospital-based (<10 institutes) Duplicates Duplicates No health insurance claims data	DPC data (MHLW) NDB Open data questionnaire survey Duplicate (Alakawa 2013) 5 institutions DPC data (MHLW) Single-center Duplicate (Kurosaki 2020) Duplicate (Kuroda 2020) questionnaire survey for medical
Fsunekawa 2020 Ehara 2014 Ehara 2017 Arai 2016 Arakawa 2013 Fakahashi 2015 Fakahashi 2015 Fakahashi 2020 Kurosaki 2020 Kuroda 2020 Konomura 2016 mai 2012	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An analysis using DPC data]* [Current status of hospitalization of children by prefecture as estimated from NDB open data]* [Importance of care process management in terms of financial perspective : based on knowledge of hospital managers] [Economic evaluation for the prevention of cervical cancer by vaccinationfrom perspective of health insurance society and industry] [The Characteristics of Income and Expenditure in MDC04C] [Survey of opening clinical indicators of hospital stay in colon malignant tumors] [Medical expenses for diabetes care in Japan: Analysis of inter-prefecture differences] [Survey on Off-Label Use of Antineoplastic Agents in Pediatric Patients using a Large-scale Medical Database in Japan] [A Survey research group based on DPC data regarding the implementation status of	Using published open data Using published open data No health insurance claims data used Duplicates Hospital-based (<10 institutes) Using published open data Hospital-based (<10 institutes) Duplicates Duplicates No health insurance claims data used	DPC data (MHLW) NDB Open data questionnaire survey Duplicate (Alakawa 2013) 5 institutions DPC data (MHLW) Single-center Duplicate (Kurosaki 2020) Duplicate (Kuroda 2020) questionnaire survey for medical institutions
Fsunekawa 2020 Ehara 2014 Ehara 2017 Arai 2016 Arakawa 2013 Fakahashi 2015 Fakahashi 2015 Fakahashi 2020 Kurosaki 2020 Kuroda 2020 Konomura 2016 mai 2012 mai 2015	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An analysis using DPC data]* [Current status of hospitalization of children by prefecture as estimated from NDB open data]* [Importance of care process management in terms of financial perspective : based on knowledge of hospital managers] [Economic evaluation for the prevention of cervical cancer by vaccinationfrom perspective of health insurance society and industry] [The Characteristics of Income and Expenditure in MDC04C] [Survey of opening clinical indicators of hospital stay in colon malignant tumors] [Medical expenses for diabetes care in Japan: Analysis of inter-prefecture differences] [Survey on Off-Label Use of Antineoplastic Agents in Pediatric Patients using a Large-scale Medical Database in Japan] [A Survey on Hospital Formulary Development in Japan in 2015] [Survey research group based on DPC data regarding the implementation status of standard drug treatment and clinical outcomes: A study on the implementation status survey of standard drug treatment using DPC data]*	Using published open data Using published open data No health insurance claims data used Duplicates Hospital-based (<10 institutes) Using published open data Hospital-based (<10 institutes) Duplicates Duplicates No health insurance claims data used Hospital-based (<10 institutes)	DPC data (MHLW) NDB Open data questionnaire survey Duplicate (Alakawa 2013) 5 institutions DPC data (MHLW) Single-center Duplicate (Kurosaki 2020) Duplicate (Kuroda 2020) questionnaire survey for medical institutions Single-center
Fsunekawa 2020 Ehara 2014 Ehara 2017 Arai 2016 Arakawa 2013 Fakahashi 2015 Fakahashi 2020 Kurosaki 2020 Kurosaki 2020 Kuroda 2020 Konomura 2016 mai 2015 mai 2016	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An analysis using DPC data]* [Current status of hospitalization of children by prefecture as estimated from NDB open data]* [Importance of care process management in terms of financial perspective : based on knowledge of hospital managers] [Economic evaluation for the prevention of cervical cancer by vaccinationfrom perspective of health insurance society and industry] [The Characteristics of Income and Expenditure in MDC04C] [Survey of opening clinical indicators of hospital stay in colon malignant tumors] [Medical expenses for diabetes care in Japan: Analysis of inter-prefecture differences] [Survey on Off-Label Use of Antineoplastic Agents in Pediatric Patients using a Large-scale Medical Database in Japan] [A Survey on Hospital Formulary Development in Japan in 2015] [Survey of standard drug treatment using DPC data]* [A Multi-institutional Survey of Risk Factors for the Prescription of Brought-in Medicine] [Recurrence rate of ischemic stroke in the Shizuoka Stroke Network: a retrospective multicenter study]	Using published open data Using published open data No health insurance claims data used Duplicates Hospital-based (<10 institutes) Using published open data Hospital-based (<10 institutes) Duplicates Duplicates No health insurance claims data used Hospital-based (<10 institutes) No health insurance claims data used	DPC data (MHLW) NDB Open data questionnaire survey Duplicate (Alakawa 2013) 5 institutions DPC data (MHLW) Single-center Duplicate (Kurosaki 2020) Duplicate (Kuroda 2020) questionnaire survey for medical institutions Single-center questionnaire survey three general hospitals
Tsunekawa 2020 Ehara 2014 Ehara 2017 Arai 2016 Arakawa 2013 Takahashi 2015 Takahashi 2020 Kuroda 2020 Konomura 2016 Imai 2015 Imai 2016 Sato 2015	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An analysis using DPC data]* [Current status of hospitalization of children by prefecture as estimated from NDB open data]* [Importance of care process management in terms of financial perspective : based on knowledge of hospital managers] [Economic evaluation for the prevention of cervical cancer by vaccinationfrom perspective of health insurance society and industry] [The Characteristics of Income and Expenditure in MDC04C] [Survey of opening clinical indicators of hospital stay in colon malignant tumors] [Medical expenses for diabetes care in Japan: Analysis of inter-prefecture differences] [Survey on Off-Label Use of Antineoplastic Agents in Pediatric Patients using a Large-scale Medical Database in Japan] [A survey on Hospital Formulary Development in Japan in 2015] [Survey research group based on DPC data regarding the implementation status of standard drug treatment using DPC data]* [A Multi-institutional Survey of Risk Factors for the Prescription of Brought-in Medicine] [Recurrence rate of ischemic stroke in the Shizuoka Stroke Network: a retrospective multicenter study] [Current situation and issues related to claiming of charges for the operations of nutrition support teams]	Using published open data Using published open data No health insurance claims data used Duplicates Hospital-based (<10 institutes) Using published open data Hospital-based (<10 institutes) Duplicates Duplicates No health insurance claims data used Hospital-based (<10 institutes) No health insurance claims data used Hospital-based (<10 institutes)	DPC data (MHLW) NDB Open data questionnaire survey Duplicate (Alakawa 2013) 5 institutions DPC data (MHLW) Single-center Duplicate (Kurosaki 2020) Duplicate (Kuroda 2020) questionnaire survey for medical institutions Single-center questionnaire survey three general hospitals questionnaire survey
Tsunekawa 2020 Ehara 2014 Ehara 2017 Arai 2016 Arakawa 2013 Takahashi 2015 Takahashi 2018 Takahashi 2020 Kurosaki 2020 Kuroda 2020 Konomura 2016 Imai 2015 Imai 2016	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An analysis using DPC data]* [Current status of hospitalization of children by prefecture as estimated from NDB open data]* [Importance of care process management in terms of financial perspective : based on knowledge of hospital managers] [Economic evaluation for the prevention of cervical cancer by vaccinationfrom perspective of health insurance society and industry] [The Characteristics of Income and Expenditure in MDC04C] [Survey of opening clinical indicators of hospitals with DPC/PDPS in Hokkaido area] [Analysis of prolonged average length of hospital stay in colon malignant tumors] [Medical expenses for diabetes care in Japan: Analysis of inter-prefecture differences] [Survey on Off-Label Use of Antineoplastic Agents in Pediatric Patients using a Large-scale Medical Database in Japan] [A Survey on Hospital Formulary Development in Japan in 2015] [Survey nesearch group based on DPC data regarding the implementation status of standard drug treatment using DPC data]* [A Multi-institutional Survey of Risk Factors for the Prescription of Brought-in Medicine] [Recurrence rate of ischemic stroke in the Shizuoka Stroke Network: a retrospective multicenter study]	Using published open data Using published open data No health insurance claims data used Duplicates Hospital-based (<10 institutes) Using published open data Hospital-based (<10 institutes) Duplicates Duplicates No health insurance claims data used Hospital-based (<10 institutes) No health insurance claims data used Hospital-based (<10 institutes)	DPC data (MHLW) NDB Open data questionnaire survey Duplicate (Alakawa 2013) 5 institutions DPC data (MHLW) Single-center Duplicate (Kurosaki 2020) Duplicate (Kuroda 2020) questionnaire survey for medical institutions Single-center questionnaire survey three general hospitals
Fsunekawa 2020 Ehara 2014 Ehara 2017 Arai 2016 Arakawa 2013 Fakahashi 2015 Fakahashi 2020 Kuroda 2020 Kuroda 2020 Konomura 2016 mai 2015 mai 2016 Sato 2015	Designated Medical Institutions] [Are pediatric inpatients centralized at core hospitals/regional pediatric centers? An analysis using DPC data]* [Current status of hospitalization of children by prefecture as estimated from NDB open data]* [Importance of care process management in terms of financial perspective : based on knowledge of hospital managers] [Economic evaluation for the prevention of cervical cancer by vaccinationfrom perspective of health insurance society and industry] [The Characteristics of Income and Expenditure in MDC04C] [Survey of opening clinical indicators of hospital stay in colon malignant tumors] [Medical expenses for diabetes care in Japan: Analysis of inter-prefecture differences] [Survey on Off-Label Use of Antineoplastic Agents in Pediatric Patients using a Large-scale Medical Database in Japan] [A Survey on Hospital Formulary Development in Japan in 2015] [Survey research group based on DPC data regarding the implementation status of standard drug treatment using DPC data]* [A Multi-institutional Survey of Risk Factors for the Prescription of Brought-in Medicine] [Recurrence rate of ischemic stroke in the Shizuoka Stroke Network: a retrospective multicenter study] [Current situation and issues related to claiming of charges for the operations of nutrition support teams]	Using published open data Using published open data No health insurance claims data used Duplicates Hospital-based (<10 institutes) Using published open data Hospital-based (<10 institutes) Duplicates Duplicates No health insurance claims data used Hospital-based (<10 institutes) No health insurance claims data used Hospital-based (<10 institutes)	DPC data (MHLW) NDB Open data questionnaire survey Duplicate (Alakawa 2013) 5 institutions DPC data (MHLW) Single-center Duplicate (Kurosaki 2020) Duplicate (Kuroda 2020) questionnaire survey for medical institutions Single-center questionnaire survey three general hospitals questionnaire survey

Sakamoto 2014	[Factor extraction of the liver cancer by the decision tree analysis using DPC data]	Others (duplicate/ no original data	Abstract
Sakamoto 2014	[Decision Tree Analysis of Factors Relating to Lung Cancers Using DPC Data]	used) Hospital-based (<10 institutes)	4 hospitals
Sakamoto 2019	[Analysis of estimate factors about the severity of cerebral infarction and patient's level	Hospital-based (<10 institutes)	three hospitals
	of need for medical treatment and nursing care]		
Miura 2017	[Current status and measures against non-communicable diseases (NCD) in the National Health Plan]	No health insurance claims data used	WHO: MiNDbank
Yamashita 2019	[Clustering Analysis of DPC Data Using Weighted PLSA for Medical Treatments for	Hospital-based (<10 institutes)	single-center
	Patients with Sepsis Including Blood Purification]		
Yamazaki 2018	[Big data analysis at Osaka International Cancer Center]*	Hospital-based (<10 institutes)	Osaka International Cancer
Yamazaki 2020	[Examination of problems: Indications for myelography]*	Hospital-based (<10 institutes)	Institute Single-center
Yamanaka 2016	[Development of a Framework for Evaluating Appropriateness of Antimicrobial Agent	Hospital-based (<10 institutes)	single-center
	Use]		
Yamada 2012	[Economic Analysis of Profit Improvement Derived from the Introduction of Generics by	Hospital-based (<10 institutes)	9 hospitals (ToCoM)
Yamauchi 2018	Tokai Consortium for Municipal Hospitals (ToCoM)] [Current status of osteoporosis screening – Relationship with osteoporotic fractures and	Using published open data	NDB Open data
	need for long-term care –]	••••••	
Yamanouchi 2018	[Considering community "recovery" from hospital discharge rate and re-hospitalization	Using published open data	published data
Yamamoto 2015	rate] [An example of management simulation using DPC data and operating room system	Hospital-based (<10 institutes)	Single-center
1411411010 2013	data]*	Hospital based (<10 institutes)	Single center
Teraoka 2021	[A study on the COVID-19 pandemic and hospital medical fees Assessment of impact	Combined with primary research	QIP + questionnaire survey
	using DPC data from QIP participating hospitals]*		
Sakai 2013	[DPC Data Based Situation Analysis of Regional Core Hospital: An Application of the GIS Methodology for Regional Health Care Plans]	Duplicates	Duplicate (Sakai 2013)
Munakata 2016	[Relationship between Lipid Measures and Brain or Heart Disease in the Japanese	Combined with primary research	Watari study (a community-based
	General Population:The Watari Study]		prospective cohort study)
Akiyama 2012	[Investigation of the Actual Health Care Area Using Diagnosis Procedure Combination	Hospital-based (<10 institutes)	Single-center
	(DPC) Data and Geographic Information System (GIS) in the Secondary Health Care Area]		
Funahashi 2013	[Attributes of non-participants aged 40-59 years in specific health check-ups]	No health insurance claims data	questionnaire survey
		used	· ·
Ogata 2012	[Investigation of the hospitalization days and medical cost of the homeless and the	Hospital-based (<10 institutes)	Single-center
Obara 2016	livelihood protection patient using DPC data for four years] [Additional cost in medical care and length of stay due to aspiration pneumonia that	Hospital-based (<10 institutes)	Single-center
00010 2010	inpatients developed : Observational study using DPC data]	Hospital based (<10 institutes)	Single center
Obara 2016	[A sensitivity analysis of medical expenses for aspiration pneumonia which occurred after	Hospital-based (<10 institutes)	Single-center
	admission]		
Kobayakawa 2014 Koike 2019	[The Analysis of Critical Path using Receipt Data and Its Application] [A fact-finding survey on the characteristics of those who became insured persons of the	Hospital-based (<10 institutes)	Single-center questionnaires to insurers
Noike 2015	National Health Insurance after mandatory retirement, etc., and the support provided by		questionnanes to matters
	National Health Insurance Organizations]*		
Oda 2018	[Examination of idiopathic pulmonary fibrosis patients with rapidly progressive severe	Others (duplicate/ no original data	
Obata 2013	respiratory failure using DPC data]* [Efficiency Index of Diagnosis Procedure Combination after Adjustment for Disease	used) Hospital-based (<10 institutes)	6 hospitals
00010 2013	Severity and Definitions of Advanced General Hospital for the Acute Care]	Hospital based (<10 institutes)	0 10301013
Matsui 2010	[An action for attaching the suitable disease name using medical record management	Hospital-based (<10 institutes)	Single-center
	data and DPC survey data]		
Matsui 2013 Matsunaga 2012	[Attempt to analyze regional characteristics using GIS software and DPC data] [FACTORS RELATED TO THE INTER-HOSPITALS DIFFERENCE IN THE STATES OF	Hospital-based (<10 institutes) Combined with primary research	Single-center questionnaire survey
Matsunaga 2012	IMPLEMENTATION OF DRUG MANAGEMENT GUIDANCE JOBS]	combined with primary research	questionnane survey
Matsuhisa 2014	[Establishment of Tokushima Prefecture Diabetes Medical Care Coordination System	Others (duplicate/ no original data	Establishment of the local medical
	Using ICT]*	used)	care system
Matsuyama 2017	[Regional disparities in dental consultation for preschool children]*	Using published open data	Survey on the Trend of Medical Care Expenditures (MHLW)
Matsuta 2020	[Regional Difference Analysis in Age-Adjusted Medical Expenses Focusing on the Cohort	Using published open data	Analysis of regional differences in
	and Medical Practice Codes]	•	health care costs (MHLW)
Matsuda 2018	[Big data analysis of medical and nursing care: Examination of the effects of specific	No health insurance claims data	health checkup data
Matsuda 2018	health checkups and specific health guidance in regional insurance]* [A study on appropriate allocation of acute myocardial infarction treatment facilities	used Using published open data	DPC data (MHLW)
mataud 2010	[A study on appropriate allocation of acute myocarolal infarction treatment facilities using DPC and NDB]*	osing published open data	or o data (IVITIEW)
Matsumoto 2018	[Relationship between the Number of Adult Obesity and Neuropsychiatric Prescription	Using published open data	NDB Open data
	Drugs]		
Kamijo 2020	[A Study on Estimating the Extraction of Permanent Teeth by Main Reason, Using the Japanese National Database of Health Insurance Claims and Specific Health Checkups of	Using published open data	NDB Open data
	Japan (NDB Japan) and the Second Survey of Reasons for Permanent Teeth Extraction]		
	[Image Examination of Malignant Tumors in Lungs Observed on the Basis of Cost	Duplicates	Duplicate (Shida 2010)
Shida 2010			
	Analysis Using Diagnosis Procedure Combination Data] [Evaluating medical functions in bospital wards by focusing on patients' structure]	Hospital-based (<10 institutes)	Single-center
Moriwaki 2019	Analysis Using Diagnosis Procedure Combination Data] [Evaluating medical functions in hospital wards by focusing on patients' structure] [On Prescription of Beta 2 Agonists for Pediatric Patients with Acute Bronchitis in Japan]	Hospital-based (<10 institutes) Combined with primary research	Single-center intervention study
Moriwaki 2019	[Evaluating medical functions in hospital wards by focusing on patients' structure]		-
Shida 2010 Moriwaki 2019 Kamigaki 2012 Jingushi 2019	[Evaluating medical functions in hospital wards by focusing on patients' structure] [On Prescription of Beta 2 Agonists for Pediatric Patients with Acute Bronchitis in Japan] [The present situation of the fracture treatment in Japan according to the 2nd open data		
Moriwaki 2019 Kamigaki 2012	[Evaluating medical functions in hospital wards by focusing on patients' structure] [On Prescription of Beta 2 Agonists for Pediatric Patients with Acute Bronchitis in Japan] [The present situation of the fracture treatment in Japan according to the 2nd open data from the National Database of Health Insurance Claims and Specific Health Checkups of	Combined with primary research	intervention study
Moriwaki 2019 Kamigaki 2012	[Evaluating medical functions in hospital wards by focusing on patients' structure] [On Prescription of Beta 2 Agonists for Pediatric Patients with Acute Bronchitis in Japan] [The present situation of the fracture treatment in Japan according to the 2nd open data	Combined with primary research	intervention study

Suga 2018	[The Current State of Non-traumatic Intracranial Hemorrhage Treatment in Japan Using the Diagnosis Procedure Combination Data from 2014]	Using published open data	DPC data (MHLW)
Shimizu 2018	[A comprehensive survey of clinical practice concerning telemedicine treatment]	Using published open data	NDB Open data
Shimizu 2021	[Counseling project for patients jointly conducted by the Japan Pharmaceutical	Combined with primary research	intervention study
	Association, insurers, Japan Medical Association, and universities (2nd report): Analysis		
Nishimura 2011	of health insurance claims data and questionnaire results for doctors.]* [Influence of staffing and administrative policy of ICU on Patient outcome]	No health insurance claims data	questionnaire survey
		used	quoodonnano ourroj
Nishina 2011	[Evaluation of the impacts of DPC based on obstetric DIC]*	Hospital-based (<10 institutes)	Single-center
Ishikawa 2013	[A study on the effects of preventive interventions for specific health guidance: A causal	No health insurance claims data	Health checkup data
Ishikawa 2018	analysis with propensity scores using a large-scale database]* [The ratio of home deaths and related factors in national municipalities, ecological study]	used	official data
ISIIIKawa 2010	[The facto of nome deaths and felated factors in national municipalities, ecological study]	used	Unicial data
Kawamura 2015	[Effectiveness of Colorectal Cancer Screening as Means of Disease Discovery in Terms of	No health insurance claims data	a hospital group
	Disease Progression Status and Medical Costs]	used	
Asaumi 2011	[Report of analysis case with medical treatment statistics that use DPC data]	Hospital-based (<10 institutes)	Single-center
Asami 2015 Maeda 2014	[The current state and the outcome of dementia patients in the acute hospital] [Regional characteristics and future prospects in the number of patients TKA from public	Hospital-based (<10 institutes)	Single-center DPC data (MHLW)
Maeua 2014	data DPC]	Using published open data	DFC data (WITEW)
Muramatsu 2013	[Prefectural Medical Care Delivery System from the National Database (NDB): Analysis	Using published open data	DPC Research Institute
	of Lifestyle-related Medical Practices Using Publicly Available Indicators Created from		
	the NDB]*		
Murakami 2012	[Comparison between medical treatment fee between DPC and service basis for spinal	Hospital-based (<10 institutes)	Single-center
Murashima 2011	infection]	No health insurance claims data	report from examination committee
maraamiina 2011	[HIM's function on the job of outpatients' department: a report from examination committee notification]	used	notification
Ota 2020	[Proposal of Method for Estimating the Situation of Regional Healthcare Using NDB Open		NDB Open data
	Data and Sickbed Function Reports Data: Estimation of Implementation Status of Surgery		
	in Inpatient Care in Okayama Prefecture]		
Osawa 2018	[Efforts to increase the proportion of generic drugs used]*	Others (duplicate/ no original data	
Otsubo 2012	[Poodmission rate for health care delivery system accossment]	used) Duplicates	Duplicate (Ootsubo 2012)
Oshima 2016	[Readmission rate for health care delivery system assessment] [Change in the number of denture according to survey statistics of medical care activities		statistics of medical care activities
03111111 2010	in public health insurance]	comp published open data	in public health insurance
Oshima 2018	[Correlations between regional distribution of dental hygienists and dentistry service :	Using published open data	NDB Open data
	Analysis using NDB open data Japan]		
Oshima 2020	[Outpatient chemotherapy/inpatient chemotherapy: Management analysis in cost	Hospital-based (<10 institutes)	Single-center
	accounting: Profit-based study on individual anticancer drugs]*		
Ono 2020	[Age-and gender-specific prescriptions and fracture surgeries of osteoporosis treatment in Japan using the National Health Insurance Claim Database]	Using published open data	NDB Open data
Tanihara 2012	[Trend and current situation of medical research using health insurance claims among	Review article	review study
	Japan, Korea, and Taiwan]		,
Niwa 2020	[Evaluation of the Antimicrobial Consumption Calculated Using the Japan Surveillance for	Hospital-based (<10 institutes)	single-center
	Infection Prevention and Healthcare Epidemiology (J-SIPHE) System]		
Ikehata 2018	[Benchmarking of Clinical Pathways for endoscopic submucosal dissection using DPC	Hospital-based (<10 institutes)	Single-center
Ikehata 2018	data] [Benchmarking of clinical pathway system for endoscopic submucosal dissection	Hospital-based (<10 institutes)	9 hospitals
IKellata 2010	according to DPC data of 9 hospitals among lwate Prefectural Hospital group	nospital-based (<10 institutes)	5 Hospitals
Ikehata 2020	[Hemorrhagic peptic ulcer -Current status and medical-economic evaluation-]	Hospital-based (<10 institutes)	Single-center
Nakamura 2015	[Evaluation of the Number of Varicella Patients Estimated by Prescription Surveillance]	Duplicates	Duplicate (Nakamura 2015)
Nakamura 2016	[Current status of oral anticoagulants and stroke patients at our hospital]*	Hospital-based (<10 institutes)	single-center
Nakajima 2014	[Examination of correlation between medical expenses with average life expectancy	Using published open data	Analysis of regional differences in
N. I	according to municipality and gender]	11.1 × 10.1 × 1.1	medical expenses (MHLW)
Nakajima 2014	[Evaluation of University Hospitals Including Diagnosis Procedure Combination (DPC) Data, Functional Evaluation Coefficient II, and Management Indicators]*	Using published open data	DPC data (MHLW)
Nakajima 2015	[Examination of the Difference in Medical Treatment Contents According to Major	Using published open data	DPC survey data (MHLW)
	Diagnostic Category of Hospital Group 1 and Group II Using the Diagnosis Procedure		, and (milew)
	Combination Survey Data]		
Nakajima 2015	[Examination of diagnosis procedure combination survey data that influence function	Using published open data	DPC survey data (MHLW)
	evaluation coefficient II]		/ 1 1 1 Met
Nakajima 2015	[Investigation of average life expectancy by prefecture using basic data on regional	Using published open data	(regional differences in health
Nakajima 2016	differences in medical care]* [Type Classification Based on Inpatient Ratio According to Major Diagnosis Category of	Using published open data	care) DPC data (MHLW)
	Group III in the Diagnosis Procedure Combination System]	passioned open data	• • • • • • • • • • • • • • • • • • •
Nakajima 2016	[Investigation of factors affecting functional evaluation coefficient II of DPC hospitals	Using published open data	DPC data (MHLW)
	using multiple regression analysis]*		
Nakajima 2017	[Examination of Factors that Influence the Operation Income and Expenditure Balance	Using published open data	DPC data (MHLW)
Nelector 0017	Difference Rate of 20 Educational Foundation Universities]	The second s	
Nakajima 2017	[Investigation of Nagano-type and metropolitan-type prefectures in relation to average	Using published open data	DPC data (MHLW)
	life expectancy using DPC data]*	Using published open data	DPC data (MHLW)
Nakaiima 2020	Major diagnostic group classifications and medical practices that affect the shortening		
Nakajima 2020	[Major diagnostic group classifications and medical practices that affect the shortening of hospital stav]*		
Nakajima 2020 Nakajima 2020	[Major diagnostic group classifications and medical practices that affect the shortening of hospital stay]* [Examination of Factors Affecting Life Expectancy by Prefecture Based on the Criteria of	Using published open data	Regional differences in healthcare
	of hospital stay]*	Using published open data	
Nakajima 2020	of hospital stay]* [Examination of Factors Affecting Life Expectancy by Prefecture Based on the Criteria of the Organisation for Economic Co-operation and Development]		
Nakajima 2020	of hospital stay]* [Examination of Factors Affecting Life Expectancy by Prefecture Based on the Criteria of	No health insurance claims data	
	of hospital stay]* [Examination of Factors Affecting Life Expectancy by Prefecture Based on the Criteria of the Organisation for Economic Co-operation and Development]		Regional differences in healthcare delivery conditions (Cabinet Office) 4 hospitals

Asamoto 2016	[An economic analysis of relationship between hospital types and length of stay in a hospital]	Using published open data	DPC data (MHLW)
samoto 2017	[The organizational factors affecting hospitalization of patients with cerebral infarction (without surgery) -Empirical findings on DPC hospitals in Tokai district's 4 prefectures-]	Using published open data	DPC data (MHLW)
asegawa 2013	[The study of the promotion policy of the telemedicine]	No health insurance claims data used	
sukada 2011	[Profitability study of laparoscopic gastrectomy cases after introduction of DPC]*	Hospital-based (<10 institutes)	Single-center
sukada 2016	[Patterns of prescribing radiotherapy and bevacizumab in nationwide practice : analysis of 101 designated cancer care hospitals in Japan]	Others (duplicate/ no original data used)	Japanese version (Tsukada 2016
suji 2012	[The Long-term Effect of Telecare: Based on 10 Year Receipt Data of Nishi-aizu Town]	Combined with primary research	with questionnaire survey
sujioka 2018	[The MDC portfolio management with the DPC public data and the level of need for nursing]	Using published open data	DPC data (MHLW)
ahara 2013	[A study on trends in the flow of patients centering on regional core hospitals in rural areas]*	Hospital-based (<10 institutes)	single-center
aguchi 2012	[Efforts to utilize DPC data and future issues]*	Hospital-based (<10 institutes)	Single-center
agami 2018	[Elucidation of circulatory and respiratory dynamics in post-cardiac arrest syndrome: Approach by transpulmonary thermodilution]*	No health insurance claims data used	
amura 2017	[A study on the Prescription Status of Metformin and DPP-4 Inhibitors in Patients with Type 2 Diabetes Mellitus in Japan: An Analysis of Data from Health Insurance Administrative Claims]	Duplicates	Duplicate (Tamura 2017)
amura 2018	[A Study on the Prescription Status of Metformin and DPP-4 Inhibitors in Patients with Type 2 Diabetes Mellitus in Japan : An analysis of Time Trends by Use of a Health	Duplicates	Duplicate (Tamura 2018)
1. 0014	Insurance Administrative Claims Database]	11 11 1/ AGE 1 1	71 91
ashiro 2014 ashiro 2015	[Assessment of the Adequacy of the DPC Score in Neonatal Care]	Hospital-based (<10 institutes)	7 hospitals
	[Verification of medical fees in neonatal intensive care units: To provide high-quality medical care efficiently and economically]*	Hospital-based (<10 institutes)	7 hospitals
ashiro 2015	[Assessment of the adequacy of the DPC score in neonatal care : Analysis of the DPC data from children's hospitals]	Hospital-based (<10 institutes)	7 hospitals
anaka 2015	[Cancer treatment situation in Japan with regard to the type of medical facility using medical claim data of Health Insurance Societies]	Duplicates	duplicate (Tanaka 2015)
anaka 2016	[On the Size Distribution of Hospitals: Empirical Study and Stochastic Model]	Using published open data	DPC data (MHLW)
anaka 2016	[The effects of the functional differentiation of hospitals on the regional mean length of stay]*	Using published open data	DPC data (MHLW)
anaka 2017	[Actual use of direct oral anticoagulant (DOAC) in fiscal year 2014 : using the national database of health insurance claims and specific health checkups of Japan (NDB) open data]	Using published open data	NDB Open data
anaka 2018	[Determining the acute period in transurethral bladder tumor resection using DPC data]*	Hospital-based (<10 institutes)	single-center
anaka 2018	[Survey of Prescription Volume and Adverse Events of NSAIDs Patches in Fiscal Year 2015]	Using published open data	NDB Open data
anaka 2019	[Analysis of DPC Data by Topic Model and Consideration on Function of Hospitals]	Using published open data	DPC data (MHLW)
anaka 2019	[Investigation of the usefulness of antimicrobial use survey using Diagnosis Procedure Combination (DPC) data]*	Duplicates	Duplicate (Tanaka 2019)
anaka 2019	[Investigation of Prescription Pattern of Antiretroviral Using the National Database of Health Insurance Claims Specific Health Checkups of Japan Open Data]	Using published open data	NDB Open data
anaka 2020	[Survey on prescribing status of NSAIDs patch formulations: Perspectives on promotion of generic drug use and prescribing restrictions]*	Using published open data	NDB Open data
azawa 2013 azawa 2016	[Investigation of the need for assistance using ADL score at admission]* [Investigation of the state of care required and destination of discharge using DPC data]*	Hospital-based (<10 institutes) Hospital-based (<10 institutes)	Single-center Single-center
atanabe 2019	[Inpatient survey for prefectural medical plan formulation]	Combined with primary research	questionnaires to institutions
ujimura 2010	[Evaluation of the Diagnosis Procedure Combination Payment System]	Hospital-based (<10 institutes)	single-center
ujino 2017	[Multicenter inter-comparison tool for surgical procedures using Diagnosis Procedure Combination survey data]	Using published open data	DPC data (VHJ)
awata 2010	[Analysis of Length of Hospital Stay for Cataract Surgery Before and After Introduction of the Diagnosis Procedure Combination -Based Inclusive Payment System]	Hospital-based (<10 institutes)	5 hospitals
linamizono 2019	[Gender, age, and regional distribution of equivalent conversion values for outpatient prescription psychotropic drugs: From the 2nd NDB Open Database]*	Using published open data	NDB Open data
atanaka 2015	[Risk factors for ischemic heart disease in males in the prime of life: An eight-year follow-up study]	Duplicates	Duplicate (Hatanaka 2015)
zaki 2018	[Impact of Oral Hygiene Management through a Multidisciplinary Approach on Patients with Acute Stroke: Building a Pneumonia-Prevention System by Dentistry]	Hospital-based (<10 institutes)	Single-center
luto 2014	[Evaluation of Cost-effectiveness analysis in Hospital Management by using Diagnosis Procedure Combination (DPC) data : a pilot case of the medical equipment]	Hospital-based (<10 institutes)	Single-center
ushimi 2010	[Health care Resource Allocation by DPC Case-mix Data]	Review article	Review
ushimi 2016	[Toward the improvement of health and medical statistics using electronic health insurance claims: Overview of "Study on Improving Claims Statistics Using Electronic Claims" (Part 1)]*	Review article	Review
ukuda 2012	[Estimates of Postoperative Resource Utilization Attributable to Surgical Site Infection in Gastrectomy Patients: Evidence from The JANIS/DPC Integrated Database]	Hospital-based (<10 institutes)	6 institutes
		No health insurance claims data	insurance coverage documents
ukuda 2014	[Possibility of analyzing claim data for specified insurance medical materials]*	used	
ukuda 2014 ukuda 2017 ukudome 2014	[Possibility of analyzing claim data for specified insurance medical materials]* [A study on building an integrated database of medical and clinical information]* [A study and report: Analysis of acute inpatient care in the Kagoshima medical area using DPC and patient survey data]*	used Hospital-based (<10 institutes) Using published open data	7 hospitals DPC data (MHLW)

Minetaki 2010	[Empirical analysis of emergency medical care using medical microdata and the	Hospital-based (<10 institutes)	Single-center
	possibility of telemedicine]*		
Horai 2019	[Study of Flat-Sum Payment system and Opportunity cost in DPC system : especially	No health insurance claims data	
	considering lost profits of Radiological Technologist and Nurse]	used	
Kitamura 2021	[The pulmonary rehabilitation utilization rate among older people with chronic obstructive	Duplicates	Duplicate (Kitamura 2021)
	pulmonary disease in Japan: A retrospective study using medical and long-term care		
	insurance claims data]		
Makino 2017	[Hybrid Research Concerning the Actual Prescription of Non-irritative Laxatives and	Combined with primary research	questionnaire survey
	Patient Consciousness]		
Akematsu 2010	[Empirical analysis of a home health management system and medical expenses for four	Combined with primary research	questionnaire survey
	major lifestyle-related diseases]*		
Akematsu 2012	[Effect of Telecare on Medical Expenditures Estimated by Propensity Score Matching	Combined with primary research	questionnaire survey
	JTTA 2012 KOBE]		
Akematsu 2013	[Long-term Effect of Telecare Intervantion on Patients with Chronic Diseases]	Combined with primary research	on-site survey
Kimura 2015	[Treatment Persistence with Antidepressants in Japan: Assessment of the First 60 Days	Duplicates	Duplicate (Kimura 2015)
	of Treatment Based on Pharmacy Claims Data from Reimbursement Database]		
Kadowaki 2020	[National trend of total hip arthroplasty evaluated by data from diagnosis procedure	Using published open data	DPC data (MHLW)
	combination (DPC)]		
Nonoshita 2012	[Action to the improvement of clinical process in pneumonia by using Diagnosis	Hospital-based (<10 institutes)	single-center
	Procedure Combination (DPC) data]		
Ryu 2010	[To establish the standardized clinical pathway in gastric and colorectal cancers by	Hospital-based (<10 institutes)	five participating cancer centers
	benchmark analysis of DPC data]		
Suzuki 2011	[The number of emergency admissions in Accredited Training Institutions for Fellowship	Using published open data	DPC data (MHLW)
	and Senior Fellowship of the Japanese Association for Acute Medicine based on the DPC		
	information]		
Suzuki 2019	[Analysis on Real World Data(RWD)Using a Machine Learning Model: Exploration of	Duplicates	Duplicate (Suzuki 2019)
	the Factors Affecting the Utility of Oral Hypoglycemic Agents]		
Wada 2019	[Macro analysis of dental reimbursement claims in the last 10 years]*	Using published open data	Health Insurance Claims Review &
			Reimbursement services (Survey o
			medical treatment status by
			medical institution)
Kijima 2012	[Analysis of Outpatient clinic, using E and F File of Outpatient]	Hospital-based (<10 institutes)	Single-center
Kunisawa 2019	[[Introduction to health economics for healthcare professionals] Association between	Others (duplicate/ no original data	(Contents: Kunisawa 2016)
	shortened hospital stay and readmission rate]*	used)	
Hamada 2011	[ASSESSMENT OF WORKLOAD IN OBSTETRICS AND GYNECOLOGY PRACTICE BY TIME	Combined with primary research	time-study
	STUDY COMBINED WITH ADMINISTRATIVE DATA]		
Saito 2012	[Relationship between exercise habits at the recommended level of exercise and out-of-	Combined with primary research	questionnaire survey
	hospital medical expenses: A study in Fujisawa City]*		

Cumulament G	le 4 Characteristics of included studies											
ID (Author	Title (*titles translated by author)	Database	Notes on database	Setting	Notes Start	End data Research area/ theme	Research area/ theme-2	Disease	Disease-2	Notes on disease	Age	Notes on age
Year)					on data	year						
1) Certain infe	ctious and parasitic diseases (A00-B99)				setting year							
	3 [Anisakis food poisoning: the annual number of cases noticed by ordinance for	JMDC		Nationwide	2005	5 2011 Clinical epidemiology, course of	Health policy evaluation and	Certain infectious and parasitic		Anisakis		
	enforcement of the food sanitation act and estimated through healthcare claim data					diseases	utilization	diseases				
Kimura 2020	analysis] Clostridioides (Clostridium) difficile infection in Japanese hospitals 2008-2017: A real-	MDV		Nationwide	2008	8 2017 Medical treatment status	Clinical epidemiology, course of	Certain infectious and parasitic		Clostridioides difficile infection	Others	≥18 year of age
11111018 2020	world nationwide analysis of treatment pattern, incidence and testing density	WID V		Nationwide	2000	5 2017 Wedical reachient status	diseases	diseases		clostituloides difficile infection	Others	210 year of age
Mikamo 2020	Incidence of and risk factors for recurrent Clostridioidesdifficile infection in Japan using a	MDV		Nationwide	2013	1 601		Certain infectious and parasitic		recurrent Clostridioides difficile infection (A04	7)	
Eukuda 2019	claims database: A retrospective cohort study Inpatient Expenditures Attributable to Hospital-Onset Clostridium difficile Infection: A	NDB		Nationwide	2010	diseases 0 2016 Health economics		diseases Certain infectious and parasitic		Clostridium difficile infections		
1 0K008 2010	Nationwide Case-Control Study in Japan	NDD		Nationwide	201	2010 Health economics		diseases		clostrialani anicile infections		
Kunishima	Healthcare burden of recurrent Clostridioides difficile infection in Japan: A retrospective	MDV		Nationwide	2013	2 2016 Health economics		Certain infectious and parasitic		Clostridioides difficile infection (A047)		patients of any age
2018 Yasunaga 201	database study 2 The burden of Clostridium difficile-associated disease following digestive tract surgery in	DPC		Nationwide	200	7 2010 Intervention effect	Health economics	diseases Certain infectious and parasitic	Diseases of the digestive system	Clostridium difficile-associated disease		
	Japan							diseases		following digestive tract surgery		
Ueno 2019	The clinical and economic burden of cytomegalovirus management post allogeneic	MDV		Nationwide	2010	0 2018 Health economics		Certain infectious and parasitic		cytomegalovirus	Others	≥18 year of age
Kalimoto 2020	hematopoietic stem cell transplantation in Japan - a retrospective database study Patient and National Economic Burden of Dengue in Japan: Results from Japanese	NDB		Nationwide	201	1 2015 Health economics		diseases Certain infectious and parasitic		Dengue		
rtajinioto zozo	National Claims Database	1100		Hationinide	201.			diseases		Dungau		
Kajimoto 2020	Clinical Management of Patients with Dengue Infection in Japan: Results from National	NDB		Nationwide	201	1 2015 Medical treatment status	Quality of care	Certain infectious and parasitic		Dengue		
Iwanaga 2015	Database of Health Insurance Claims [An investigation of the clinical practice for dermatophytosis treatment using	IMDC	Existing	Nationwide	2013	3 2014 Medical treatment status	Research methodology	diseases Certain infectious and parasitic		dermatophytosis		
managa 2010	reimbursement data from health insurance societies in Japan]	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	epidemiological	Hationinide	201		nestaren methodologj	diseases		dermatophytosis		
			studies: JSMM, JFW,									
Okubo 2019	Recent Prescription Patterns for Children With Acute Infectious Diarrhea	IMDC	JOCD	Nationwide	2013	2 2015 Medical treatment status		Certain infectious and parasitic		acute infectious diarrhea	Children	aged under 18 years
	·····							diseases				-8 /
Morishima	[Estimating the numbers of enterobiasis cases in Japan: a healthcare claims database	JMDC		Nationwide	2005	1 00.		Certain infectious and parasitic		enterobius		
2015 Takeuchi 2017	study] ' Pediatric urolithiasis associated with acute gastroenteritis: an inpatient database study	DPC		Nationwide	2010	diseases D 2012 Clinical epidemiology, course of		diseases Certain infectious and parasitic	Diseases of the genitourinary	acute gastroenteritis, urolithiasis	Children	≤59 months old
	in Japan					diseases		diseases	system			
Okubo 2018	Recent patterns in antibiotic use for children with group A streptococcal infections in	JMDC		Nationwide	2013	2 2015 Medical treatment status		Certain infectious and parasitic	Diseases of the respiratory system	n group A streptococcus (GAS)	Children	aged <18 years
Hamada 2021	Japan In-hospital mortality among patients with invasive non-group A beta-hemolytic	DPC		Nationwide	2010	0 2018 Intervention effect		diseases Certain infectious and parasitic		invasive group A Streptococcus infection	Others	excluded patients who
	Streptococcus treated with clindamycin combination therapy: a nationwide cohort study							diseases		0		were under the age of 16
T.I	1 Cost Analysis in Helicobacter pylori Eradication Therapy Based on a Database of Health	1100		Nationwide	2005	5 2018 Health economics		Certain infectious and parasitic	Provide Provide Antonio	H. pylori gastritis, H. pylori infection		years
Tokunaga 202	I Cost Analysis in Helicobacter pylori cradication Therapy Based on a Database of Health Insurance Claims in Japan	JMDC		NationWide	200:	5 2018 Health economics		diseases	Diseases of the digestive system	H. pylori gastritis, H. pylori infection		
Deguchi 2020	Current Status of Helicobacter pylori Diagnosis and Eradication Therapy in Japan Using a	MDV		Nationwide	2008	8 2016 Intervention effect	Quality of care	Certain infectious and parasitic		Helicobacter pylori infection		
Desturbi 2010	Nationwide Database	JMDC		Nationwide	200	5 2019 Oliviant antideminianty anyone of	Medical treatment status	diseases Certain infectious and parasitic		Heliochestes ades		
Degucni 2019	Association between parental history of Helicobacter pylori treatment failure and treatment failure in the offspring	JMDC		NationWide	200:	5 2018 Clinical epidemiology, course of diseases	Medical treatment status	diseases		Helicobacter pylori		
Hiroi 2017	Impact of health insurance coverage for Helicobacter pylori gastritis on the trends in	Others	JMDC, MDV	Nationwide	2005			Certain infectious and parasitic	Diseases of the digestive system	Helicobacter pylori gastritis		
	eradication therapy in Japan: retrospective observational study and simulation study based on real-world data					utilization		diseases				
Fujimori 2014	[[Changes in treatment of Helicobacter pylori infection after coverage of chronic gastritis	NHI/LSEHS	National Health	Prefecture	Hokkaid 2013	2 2013 Medical treatment status	Health policy evaluation and	Certain infectious and parasitic	Diseases of the digestive system	Helicobacter pylori eradication		
	insurance] Has eradication cases increased?]*		Insurance and Later-		0		utilization	diseases				
			Stage Elderly Healthcare System									
Yatsuhashi	[Clinical Study of Liver Disease using National Database (NDB) : Trends in the Number	NDB	neartricare system	Nationwide	2013	2 2016 Clinical epidemiology, course of		Certain infectious and parasitic	Neoplasms	Chronic Hepatitis C and Hepatitis B		
2019	of Patients with Chronic Hepatitis C and Hepatitis B]					diseases		diseases				
Fukuda 2020	Healthcare Expenditures for the Treatment of Patients Infected with Hepatitis C Virus in Ianan	NDB		Nationwide	2010	0 2018 Health economics		Certain infectious and parasitic diseases		Hepatitis C Virus	Others	≥20 years of age
Yamazaki 201	9 Clinical and Economic Burden of Patients with Chronic Hepatitis C with Versus Without	MDV		Nationwide	2008	8 2016 Health economics		Certain infectious and parasitic		chronic hepatitis C	Others	≥18 year of age
	Antiviral Treatment in Japan: An Observational Cohort Study Using Hospital Claims Data							diseases				
Ruzicka 2019	Comorbidities and co-medications in populations with and without chronic hepatitis C	MDV		Nationwide	201	5 2016 Clinical epidemiology, course of	Medical treatment status	Certain infectious and parasitic		chronic hepatitis C virus (B18.2)	Others	aged ≥18 years
AUDIONO 2010	virus infection in Japan between 2015 and 2016	10101		auonwide	2013	diseases	meeter reament stards	diseases		canonic nepatitis o virus (DID.2)	Juleis	0900 510 April 2
Hirata 2017	Surveillance rates for hepatocellular carcinoma among patients with cirrhosis, chronic	JMDC		Nationwide	201	2011 Medical treatment status	Quality of care	Certain infectious and parasitic	Diseases of the digestive system	LC, hepatitis B virus (HBV), or hepatitis C viru	s	age group
Ohisa 2015	hepatitis B, and chronic hepatitis C based on Japanese claims database Estimated numbers of patients with liver disease related to hepatitis B or C virus	JMDC		Nationwide	200	8 2010 Clinical epidemiology, course of		diseases Certain infectious and parasitic		(HCV) infection hepatitis viruses	Others	aged under 65 years
20028 2013	infection based on the database reconstructed from medical claims from 2008 to 2010 in			auonwide	2004	diseases		diseases		nepartes VII uses	Juleis	abou unuer ob years
	Japan											
Udagawa 2019	5 Using Clinical Databases to Verify the Impact of Regulatory Agency Alerts in Japan: Hepatitis B Testing Behavior After an Alert Regarding Risk of Viral Reactivation	MDV		Nationwide	2010	0 2012 Health policy evaluation and utilization		Certain infectious and parasitic diseases		hepatitis B		
Sako 2011	Acute hepatitis B in Japan: Incidence, clinical practices and health policy	DPC		Nationwide	200		Medical treatment status	Certain infectious and parasitic		acute hepatites B		
						diseases		diseases				
Yotsuyanagi 2021	Characteristics and healthcare costs in the aging hepatitis B population of Japan: A nationwide real-world analysis	MDV		Nationwide	2013	2 2016 Clinical epidemiology, course of diseases	Health economics	Certain infectious and parasitic diseases		Hepatitis B (ICD-10: B18.1)	Others	aged 18 years or older
2021 Imai 2019	Nationwide real-world analysis Validity of administrative database detection of previously resolved hepatitis B virus in	Others	NHO, chart	Others	4 201			Certain infectious and parasitic	Diseases of the musculoskeletal	hepatitis B virus, rheumatoid arthritis		
	Japan		abstraction		hospital			diseases	system and connective tissue			
Fuiita 2018	Hepatitis B virus reactivation in patients with rheumatoid arthritis: Analysis of the	NDB		Nationwide	s 2013	3 2014 Clinical epidemiology, course of	Quality of care	Certain infectious and parasitic	Diseases of the musculoskeletal	hepatitis B virus, rheumatoid arthritis	Others	patients aged 30- 79
1 0)10 2010	National Database of Japan			. to commund	201.	diseases	quarty or our d	diseases	system and connective tissue		Guidia	years
						-		-	-	-		

-												
Hagiwara 2015	The effectiveness of risk communication regarding drug safety information: a nationwide survey by the Japanese public health insurance claims data	NDB	national health insurance claims	Nationwide	2010	2010 Health policy evaluation and utilization		Certain infectious and parasitic diseases	Diseases of the musculoskeletal system and connective tissue	hepatitis, rheumatoid arthritis		
			database (NHICD)									
Honda 2017	Treatment patterns of postherpetic neuralgia patients before and after the launch of pregabalin and its effect on medical costs: Analysis of Japanese claims data provided by Japan Medical Data Center	JMDC		Nationwide	2005	2013 Health policy evaluation and utilization	Health economics	Certain infectious and parasitic diseases		postherpetic neuralgia	Others	aged 18 years or old
Imafuku 2020	Tapan weducat Data Center Risk of herpes zoster in the Japanese population with immunocompromising and chronic disease conditions: Results from a claims database cohort study, from 2005 to 2014	JMDC		Nationwide	2005	2014 Clinical epidemiology, course of diseases		Certain infectious and parasitic diseases	Others	herpes zoster (with immunocompromising and chronic disease conditions)	Others	≥18 year of age
Imafuku 2019	Burden of Herpes Zoster in the Japanese Population with Immunocompromised/Chronic Disease Conditions: Results from a Cohort Study Claims Database from 2005-2014	JMDC		Nationwide	2005	2014 Clinical epidemiology, course of diseases	Health economics	Certain infectious and parasitic diseases		Herpes Zoster	Others	aged 18–74 years
Ruzicka 2018	Comorbidities and the use of comedications in people living with HIV on antiretroviral therapy in Japan: a cross-sectional study using a hospital claims database	MDV		Nationwide	2010	2015 Clinical epidemiology, course of diseases	Medical treatment status	Certain infectious and parasitic diseases		HIV	Others	aged ≥18 years
Ruzicka 2019	Greater burden of chronic comorbidities and co-medications among people living with HIV versus people without HIV in Japan: A hospital claims database study	MDV		Nationwide	2010	2015 Clinical epidemiology, course of diseases	Medical treatment status	Certain infectious and parasitic diseases		HIV disease (ICD-10 codes B20-24)	Others	≥18 year of age
Ruzicka 2019	Switch rates, time-to-switch, and switch patterns of antiretroviral therapy in people living with human immunodeficiency virus in Japan, in a hospital-claim database	g MDV		Nationwide	2008	2016 Medical treatment status		Certain infectious and parasitic diseases		HIV disease	Others	aged ≥ 18 years
Mizukami 2018	Resource Use and Cost of Treating Human Papillomavirus-Related Lesions in Japanese Women	Others	JMDC, MDV	Nationwide	2011	2011 Health economics		Certain infectious and parasitic diseases	Diseases of the genitourinary system	Human Papillomavirus-Related Lesions	Others	aged 15 years or olde
Kishimoto 2021	Early impact of school closure and social distancing for COVID-19 on the number of inpatients with childhood non-COVID-19 acute infections in Japan	DPC	QIP	Nationwide	2018	2020 Health policy evaluation and utilization	COVID-19	Certain infectious and parasitic diseases	Diseases of the respiratory system	non-COVID-19 acute infections	Children	aged 15 years or younger
Imai 2020	Comparison of interactions between warfarin and cephalosporins with and without the N- methyl-thio-tetrazole side chain	- JMDC		Nationwide	2010	2017 Intervention effect		Certain infectious and parasitic diseases	Diseases of the circulatory system	received warfarin during cephalosporin therapy infections	/, Others	≥18 year of age
Nakamura 2015	Proposition of real-time precise prediction model of infectious disease patients from Prescription Surveillance using the National Database of Electronic Medical Claims	NDB	Aggregated data: Prescription Surveillance	Nationwide	2010	2013 Prediction model	Clinical epidemiology, course of diseases	Certain infectious and parasitic diseases		infectious disease		all ages
Saita 2013	[Incidence of Infectious Spondylitis Is Increasing Rapidly : Epidemiological Analysis Using the Japanese Diagnosis Procedure Combination Database]	g DPC	Surveillance	Nationwide	2007	2009 Clinical epidemiology, course of diseases		Certain infectious and parasitic diseases	Diseases of the musculoskeletal system and connective tissue	Infectious Spondylitis		
Yasunaga 2010	Measles-related hospitalizations and complications in Japan, 2007-2008	DPC	DPC Research Group	Nationwide	2007	2008 Clinical epidemiology, course of diseases		Certain infectious and parasitic diseases	system and connective disade	measles and related complicates		
Tanihara 2010	Evaluating measles surveillance: comparison of sentinel surveillance, mandatory	Others	several corporate	Prefecture A	ichi 2007	2007 Clinical epidemiology, course of	Research methodology	Certain infectious and parasitic		measles		age groups
	notification, and data from health insurance claims		health insurance societies in Aichi Prefecture, sentinel surveillance system, mandatory notification system			diseases		diseases				
			run by the Aichi									
Yuasa 2019	Treatment procedures and associated medical costs of methicillin-resistant Staphylococcus aureus infection in Japan: A retrospective analysis using a database of Japanese employment-based health insurance	Others	MinaCare database	Nationwide	2010	2015 Medical treatment status	Health economics	Certain infectious and parasitic diseases		methicillin-resistant Staphylococcus aureus infection	Others	aged ≥15 years
Imai 2020	Association of the ward pharmacy service with active implementation of therapeutic drug	g JMDC		Nationwide	2012	2017 Intervention effect	Medical treatment status	Certain infectious and parasitic		MRSA		
	monitoring for vancomycin and teicoplanin-an epidemiological surveillance study using							diseases				
	Japanese large health insurance claims database											
	Effect of methicillin-resistant Staphylococcus aureus in Japan	DPC	QIP: DPC data linked to microbiologic data	1	2014	2016 Clinical epidemiology, course of diseases		Certain infectious and parasitic diseases		Methicillin-resistant Staphylococcus aureus		
	Retrospective database study of Japanese hospitals	DPC	and JANIS data	Nationwide	2014	2015 Clinical epidemiology, course of diseases	Health economics	Certain infectious and parasitic diseases		MRSA		age categories
Taninara 2016	Estimation of the incidence of MRSA patients: evaluation of a surveillance system using health insurance claim data	DPC	and JAINIS data	Nationwide	2011	2012 Clinical epidemiology, course of diseases		Certain infectious and parasitic diseases		MKSA		
Goto 2014		DPC		Nationwide	2010	2010 Intervention effect	Medical treatment status	Certain infectious and parasitic diseases		MRSA		
Ueno 2021	The disease burden of mucormycosis in Japan: results from a systematic literature review and retrospective database study	MDV	a systematic literature review	Nationwide	2010	2019 Clinical epidemiology, course of diseases	Health economics	Certain infectious and parasitic diseases		mucormycosis (ICD-10 code: B46.x)		
Ohfuji 2020	Mumps-related Disease Burden in Japan: Analysis of JMDC Health Insurance Reimbursement Data for 2005-2017	IMDC		Nationwide	2005	2017 Clinical epidemiology, course of diseases		Certain infectious and parasitic diseases		mumps	Others	3 month-64 year of a
Takagi 2020	Incidence of Mumps Deafness in Japan, 2005-2017: Analysis of Japanese Insurance Claims Database	JMDC		Nationwide	2005	2017 Clinical epidemiology, course of diseases		Certain infectious and parasitic diseases		Mumps Deafness	Others	3 month-64 year of a
Iwao 2020	A survey of clarithromycin monotherapy and long-term administration of ethambutol for patients with MAC lung disease in Japan: A retrospective cohort study using the database of health insurance claims			Nationwide	2005	2017 Medical treatment status		Certain infectious and parasitic diseases		Mycobacterium avium-intracellulare complex lung disease		
Iwao 2020	Treatment of Mycobacterium avium-intracellulare complex lung disease in the real world a retrospective big data analysis	i: JMDC		Nationwide	2007	2017 Medical treatment status		Certain infectious and parasitic diseases		Mycobacterium avium-intracellulare complex lung disease	Others	0-74 year of age
Izumi 2019	Epidemiology of Adults and Children Treated for Nontuberculous Mycobacterial Pulmonary Disease in Japan	NDB		Nationwide	2009	2014 Clinical epidemiology, course of diseases	Socioeconomic comparison	Certain infectious and parasitic diseases		nontuberculous mycobacterial pulmonary disease (A310 and A319)		
Igari 2020	A retrospective observational study of antimicrobial treatment for non-tuberculous mycobacteria disease using a nationwide claims database in Japan	NDB	Sampling data	Nationwide	2011	2014 Medical treatment status	Quality of care	Certain infectious and parasitic diseases		non-tuberculous mycobacteria		
Morimoto 2019	Actual practice of standard treatment for pulmonary nontuberculous mycobacteriosis in Japan	NDB	national health insurance database	Nationwide	2010	2014 Medical treatment status		Certain infectious and parasitic diseases		nontuberculous mycobacterial pulmonary disease		
Uno 2020	Comorbidities associated with nontuberculous mycobacterial disease in Japanese adults: a claims-data analysis	JMDC		Nationwide	2014	2014 Clinical epidemiology, course of diseases		Certain infectious and parasitic diseases		nontuberculous mycobacterial disease	Others	aged 20–75 years
	[Survey of Drug Prescription Patterns Among Patients with Nontuberculous Mycobacterial Disease Using the Database of Health Insurance Claims]	JMDC		Nationwide	2015	2016 Medical treatment star	tus	Certain infectious and parasitic diseases		Nontuberculous Mycobacterial Disease (A310- A319)		
Iwao 2018				Nationwide	2007	2015 Clinical epidemiology, course of		Certain infectious and parasitic		noro virus		age group
Chang 2018	The incidence of medically-attended norovirus gastro-enteritis in Japan: Modelling using a medical care insurance claims database Risk of pneumococcal diseases in adults with underlying medical conditions: a	JMDC Others	JMDC. MDV	Nationwide	2007	diseases 2014 Clinical epidemiology, course of		diseases Certain infectious and parasitic		Pneumococcal disease	Others	aged ≥19 years

Shoji 2020	Recent epidemiology of Pneumocystis pneumonia in Japan	DPC		Nationwide		2010	2016 Clinical epidemiology, course of diseases		Certain infectious and parasitic diseases		Pneumocystis pneumonia		
Inoue 2019	Adjunctive Corticosteroids decreased the risk of mortality of non-HIV Pneumocystis	DPC		Nationwide		2010	2016 Intervention effect		Certain infectious and parasitic		non-HIV Pneumocystis pneumonia	Others	≥18 year of age
Fukuda 2020	Pneumonia Healthcare resources attributable to methicillin-resistant Staphylococcus aureus	NDB		Nationwide		2012	2018 Health economics		diseases Certain infectious and parasitic	Injury, poisoning and certain other	Surgical Site Infection (MRSA)		
Ol	orthopedic surgical site infections Dose-dependent relationships between weight status and clinical outcomes among	DPC		Nationwide		2010	2015 Clinical epidemiology, course of		diseases Certain infectious and parasitic	consequences of external causes	Respiratory syncytial virus (RSV) infection	Children	aged <12 months
	infants hospitalized with respiratory syncytial virus infections						diseases		diseases	Diseases of the respiratory system			-
Kobayashi 2020	Sustained reduction in rotavirus-coded hospitalizations in children aged <5 years after introduction of self-financed rotavirus vaccines in Japan	JMDC		Nationwide		2009	2017 Clinical epidemiology, course of diseases	Health policy evaluation and utilization	Certain infectious and parasitic diseases		rotavirus gastroenteritis	Children	<10 years of age
Kimura 2019	Passive surveillance of rotavirus gastroenteritis-associated hospitalization using	Others	MDV, JMDC	Nationwide		2009	2016 Clinical epidemiology, course of		Certain infectious and parasitic		rotaviral enteritis	Children	<6 year of age
Kobayashi	nationwide administrative databases in Japan Decline of rotavirus-coded hospitalizations in children under 5 years: A report from Japan	JMDC		Nationwide		2009	diseases 2015 Health policy evaluation and		diseases Certain infectious and parasitic		rota virus	Children	aged <5 years
2018 Aso 2020	where rotavirus vaccines are self-financed Dexmedetomidine and Mortality From Sepsis Requiring Mechanical Ventilation: A	DPC		Nationwide		2010	utilization 2016 Intervention effect		diseases Certain infectious and parasitic			Others	aged ≥15 years
AS0 2020	Dexmedetomidine and Mortality From Sepsis Requiring Mechanical Ventilation: A Japanese Nationwide Retrospective Cohort Study	DPC		Nationwide		2010	2016 Intervention effect		diseases		sepsis	Others	aged ≥15 years
Shime 2011	[Epidemiology of pediatric sepsis in Japanese community hospitals: analysis using a diagnosis procedure combination database]	DPC	QIP	Nationwide		2007	2007 Clinical epidemiology, course of diseases	Medical treatment status	Certain infectious and parasitic diseases		pediatric sepsis		age group
Fujimori 2020	0 [Effects of Polymyxin B Hemoperfusion in Patients with Sepsis Requiring CHDF : Analysi	s DPC		Nationwide		2016	2018 Intervention effect		Certain infectious and parasitic		Sepsis	Others	aged ≥20 years
Tanihara 2014	of a Nationwide Administrative Database in Japan] 4 Assessment of medical expenditures for sepsis:differentiating between cases with and	Others	an employee health	Others	an	2006	2007 Medical treatment status	Health economics	diseases Certain infectious and parasitic		sepsis		
10111010 2014	without ruled-out diagnoses	others	insurance	others	employe	2000	Loor medical realment status		diseases		action of the second se		
			organization		e health insuranc								
					e								
					organiza tion								
Fujimori 2021	1 Effects of Polymyxin B Hemoperfusion in Patients with Sepsis Requiring Continuous	DPC		Nationwide	tion	2016	2019 Intervention effect		Certain infectious and parasitic		sepsis	Others	≥20 years of age
5 I.I. I. 0000	Hemodiafiltration: Analysis of a Nationwide Administrative Database in Japan	000		Nationwide		2014	0010 L.L		diseases			Others	. 10
Edakubo 2020	20 Effect of Early Central Venous Catheterization On Mortality Among Patients with Severe Sepsis: A Nationwide Inpatient Database Study	DPC		Nationwide		2014	2016 Intervention effect		Certain infectious and parasitic diseases		severe sepsis	Uthers	≥18 year of age
Miyauchi 2012	12 Treatment with PMX-DHP improves prognoses of sepsis patients who required treatment	t Others	Social Insurance	Others	30	2008	2011 Intervention effect	Health economics	Certain infectious and parasitic		Sepsis		
	with blood purification and is favorable for the medical fees		Hospitals		Social Insuranc				diseases				
					е								
lgari 2020	A retrospective observational study of antibiotics treatment for sepsis using a nationwide		Sampling data	Nationwide	Hospital	2011	2014 Medical treatment status	Clinical epidemiology, course of	Certain infectious and parasitic	Others	antibiotics treatment for sepsis	Others	aged 15 years and old
	claim database in Japan		Sampling data					diseases	diseases	oners			. ,
Ohbe 2019	Intravenous albumin for initial resuscitation and mortality in septic shock patients: propensity score analyses using a nationwide inpatient database	DPC		Nationwide		2010	2016 Intervention effect		Certain infectious and parasitic diseases		septic shock	Others	age \geq 20 years
Tagami 2015	Low-dose corticosteroid treatment and mortality in refractory abdominal septic shock	DPC		Nationwide		2010	2013 Intervention effect		Certain infectious and parasitic	Diseases of the digestive system	· · ·	Others	age ≥15 years
Suzuki 2020	after emergency laparotomy Histamine-2 receptor antagonists versus proton pump inhibitors for septic shock after	DPC		Nationwide		2010	2015 Intervention effect		diseases Certain infectious and parasitic	Diseases of the digestive system	emergency laparotomy septic shock after lower gastrointestinal tract	Others	≥18 year of age
	lower gastrointestinal tract perforation: a retrospective cohort study using a national								diseases				, ,
Tagami 2015	inpatient database Intravenous immunoglobulin and mortality in pneumonia patients with septic shock: an	DBC		Nationwide		2010	2013 Intervention effect		Certain infectious and parasitic	Diseases of the digestive system	pneumonia, septic shock	Others	age ≥18 years
	observational nationwide study								diseases			0 .1	
Fujimori 2021				Nationwide		2016	2019 Intervention effect				septic shock	Others	aged ≥20 years
	observational nationwide study 1 Effects of Polymyvin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Nationwide Administrative Database in Japan 6 Potential Survival Benefit of Polymyvin B Hemoperfusion in Septic Shock Patients on								diseases Certain infectious and parasitic diseases Certain infectious and parasitic	Diseases of the genitourinary	Septic shock, Continuous Renal Replacement	Others Others	aged ≥20 years aged ≥18 years
lwagami 2016	observational nationwide study 1 Effects of Polymyin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Nationwide Administrative Database in Japan 6 Potential Survival Benefit of Polymyin B Hemoperfusion in Septic Shock Patients on Continuous Renal Replacement Therapy: A Propensity-Matched Analysis	: DPC		Nationwide		2016	2019 Intervention effect		diseases Certain infectious and parasitic diseases Certain infectious and parasitic diseases	system	Septic shock, Continuous Renal Replacement Therapy		aged ≥18 years
Iwagami 2016 Tagami 2015	observational nationwide study 1 Effects of Polymyvin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Nationwide Administrative Database in Japan 6 Potential Survival Benefit of Polymyxin B Hemoperfusion in Septic Shock Patients on Continuous Renal Replacement Therapy: A Propensity-Matched Analysis 1 Intravenous immunoglobulin use in septic shock patients after emergency laparotomy	DPC DPC		Nationwide Nationwide Nationwide		2016 2007 2010	2019 Intervention effect 2012 Intervention effect 2013 Intervention effect		diseases Certain infectious and parasitic diseases Certain infectious and parasitic diseases Certain infectious and parasitic diseases	system	Septic shock, Continuous Renal Replacement Therapy septic shock, intestinal perforation	Others	
Iwagami 2016 Tagami 2015	observational nationwide study 1 Effects of Polymyin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Nationwide Administrative Database in Japan 6 Potential Survival Benefit of Polymyin B Hemoperfusion in Septic Shock Patients on Continuous Renal Replacement Therapy: A Propensity-Matched Analysis	DPC	multiple health	Nationwide Nationwide		2016 2007	2019 Intervention effect 2012 Intervention effect		diseases Certain infectious and parasitic diseases Certain infectious and parasitic diseases Certain infectious and parasitic	system Injury, poisoning and certain other	Septic shock, Continuous Renal Replacement Therapy	Others	aged ≥18 years
Iwagami 2016 Tagami 2015 Tanihara 2011 Matsubayashi	observational natiomxide study 1 Effects of Polymyxin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Natiomxide Administrative Database in Japan 6 Potential Survival Benefit of Polymyxin B Hemoperfusion in Septic Shock Patients on Continuous Renal Replacement Therapy. A Propensity Matched Analysis 1 Intravenous immunoglobulin use in septic shock patients after emergency laparotomy 11 [Investigation of descriptions of sexually transmitted diseases in medical fee statements]* 10 Synhills testing among spouses of patients with syphills in Japan: an epidemiological	DPC DPC		Nationwide Nationwide Nationwide		2016 2007 2010	2019 Intervention effect 2012 Intervention effect 2013 Intervention effect 2006 Clinical epidemiology, course of		diseases Certain infectious and parasitic diseases Certain infectious and parasitic diseases Certain infectious and parasitic diseases Certain infectious and parasitic diseases Certain infectious and parasitic	system Injury, poisoning and certain other	Septic shock, Continuous Renal Replacement Therapy septic shock, intestinal perforation sexually transmitted disease	Others	aged ≥18 years
Iwagami 2016 Tagami 2015 Tanihara 2011 Matsubayashi 2020	observational nationwide study Effects of Polymyxin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Nationwide Administrative Database in Japan 6 Potential Survival Benefit of Polymyxin B Hemoperfusion in Septic Shock Patients on Continuous Renal Replacement Therapy: A Propensity-Matched Analysis Intravenous immunoglobulin use in septic shock patients after emergency laparotomy It [Investigation of descriptions of sexually transmitted diseases in medical fee statements] ⁴ is Syphilis testing andministrative claims database	DPC DPC Others JMDC		Nationwide Nationwide Nationwide Nationwide Nationwide		2016 2007 2010 2006 2010	2019 Intervention effect 2012 Intervention effect 2013 Intervention effect 2006 Clinical epidemiology, course of diseases 2017 Medical treatment status		diseases Certain infectious and parasitic diseases Certain infectious and parasitic diseases Certain infectious and parasitic diseases Certain infectious and parasitic diseases Certain infectious and parasitic diseases	system Injury, poisoning and certain other	Septic shock, Continuous Renal Replacement Therapy septic shock, intestinal perforation sexually transmitted disease syphilis	Others Others	aged ≥18 years aged 15-89 years
Iwagami 2016 Tagami 2015 Tanihara 2011 Matsubayashi 2020 Nakajima 2013	observational nationxide study Effects of Polymyxin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Nationxide Administrative Database in Japan 6 Potential Survival Benefit of Polymyxin B Hemoperfusion in Septic Shock Patients on Continuous Real Replacement Therapy. A Propensity-Matched Analysis in Intravenous immunoglobulin use in septic shock patients after emergency laparotomy (Investigation of descriptions of sexually transmitted diseases in medical fee statements) ^a is Synhills testing among spouses of patients with synhilis in Japan: an epidemiological study using an administrative claims database 18 Clinical features and outcomes of tetanus: Analysis using a National Inpatient Database in Japan	DPC DPC DPC Others JMDC DPC	insurance society	Nationwide Nationwide Nationwide Nationwide Nationwide		2016 2007 2010 2006 2010 2010	2019 Intervention effect 2012 Intervention effect 2013 Intervention effect 2006 Clinical epidemiology, course of diseases 2017 Medical treatment status 2016 Clinical epidemiology, course of diseases		diseases Certain infectious and parasitic diseases Certain infectious and parasitic diseases	system Injury, poisoning and certain other	Septic shock, Continuous Renal Replacement Therapy septic shock, intestinal perforation sexually transmitted disease syphilis tetanus neonatorum (A33.1), obstetric tetanus (A34.10), or other tetanus (A35)	Others Others	aged ≥18 years aged 15-89 years
Iwagami 2016 Tagami 2015 Tanihara 2011 Matsubayashi 2020 Nakajima 2013	observational nationwide study 1 Effects of Polymyxin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Nationwide Administrative Database in Japan 6 Potential Survival Benefit of Polymyxin B Hemoperfusion in Septic Shock Patients on Continuous Renal Replacement Therapy: A Propensity-Matched Analysis Intravenous immunoglobulin use in septic shock patients after emergency laparotomy 11 [Investigation of descriptions of sexually transmitted diseases in medical fee statements]* 13 Syphilis testing among spouses of patients with syphilis in Japan: an epidemiological 14 study using an administrative damine database 13 Clinical features and outcomes of tetanus: Analysis using a National Inpatient Database in Japan	DPC DPC Others JMDC		Nationwide Nationwide Nationwide Nationwide Nationwide		2016 2007 2010 2006 2010	2019 Intervention effect 2012 Intervention effect 2013 Intervention effect 2006 Clinical epidemiology, course of diseases 2017 Medical treatment status 2016 Clinical epidemiology, course of diseases 2018 Clinical epidemiology, course of diseases	Medical treatment status	diseases Certain infectious and parasitic diseases Certain infectious and parasitic	system Injury, poisoning and certain other	Septic shock, Continuous Renal Replacement Therapy septic shock, intestinal perforation sexually transmitted disease syphilis tetanus neonatorum (A33.1), obstetric tetanus	Others Others	aged ≥18 years aged 15-89 years
Iwagami 2016 Tagami 2015 Tanihara 2011 Matsubayashi 2020 Nakajima 2011 Yasunaga 201	observational natiomxide study 1 Effects of Polymyxin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Natiomxide Administrative Database in Japan 6 Potential Survival Benefit of Polymyxin B Hemoperfusion in Septic Shock Patients on Continuous Renal Replacement Therapy. A Propensity Matched Analysis 1 Intravenous immunoglobulin use in septic shock patients after emergency laparotomy 11 [Investigation of descriptions of sexually transmitted diseases in medical fee statements] ¹⁴ 15 Clinical Testing among spouses of patients with syphilis in Japan: an epidemiological study using an administrative claims database 16 Clinical Testing among spouses of patients with syphilis in Japan: an epidemiological study using an administrative claims database 10 Delay in tetracycline treatment increases the risk of complications in Tsutsugamushi disease: data from the Japanese Diegnosis Procedure Combination database	DPC DPC DPC Others JMDC DPC	DPC Research Group	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2016 2007 2010 2006 2010 2010	2019 Intervention effect 2012 Intervention effect 2013 Intervention effect 2006 Clinical epidemiology, course of diseases 2017 Medical treatment status 2016 Clinical epidemiology, course of diseases	Medical treatment status	diseases Certain infectious and parasitic diseases Certain infectious and parasitic	system Injury, poisoning and certain other	Septic shock, Continuous Renal Replacement Therapy septic shock, intestinal perforation sexually transmitted disease syphilis tetanus neonatorum (A33.1), obstetric tetanus (A34.10), or other tetanus (A35)	Others Others	aged ≥18 years aged 15-89 years
Iwagami 2016 Tagami 2015 Tanihara 2011 Matsubayashi 2020 Nakajima 2011 Yasunaga 201	observational natiomxide study 1 Effects of Polymyxin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Natiomxide Administrative Database in Japan 6 Potential Survival Benefit of Polymyxin B Hemoperfusion in Septic Shock Patients on Continuous Remal Replacement: Therapy: A Propensity: Matched Analysis 1 Intravenous immunoglobulin use in septic shock patients after emergency laparotomy 11 [Investigation of descriptions of sexually transmitted diseases in medical fee statements] ¹⁴ 15 Synthis testing among spouses of patients with syphilis in Japan: an epidemiological study using an administrative claims database 12 Clinical features and outcomes of tetanus: Analysis using a National Inpatient Database in Japan 11 Delay in tetracycline treatment increases the risk of complications in Tsutsugamushi disease: data from the Japanese Diagnosis Procedure Combination database	DPC DPC Others JMDC DPC DPC DPC	DPC Research Group 19 hospitals under the National Hospita	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2016 2007 2010 2006 2010 2010 2010 2007	2019 Intervention effect 2012 Intervention effect 2013 Intervention effect 2006 Clinical epidemiology, course of diseases 2017 Middial treatment status 2015 Clinical epidemiology, course of diseases 2008 Clinical epidemiology, course of diseases	Medical treatment status	diseases Certain infectious and parasitic diseases Certain infectious and parasitic diseases	system Injury, poisoning and certain other	Septic shock, Continuous Renal Replacement Therapy septic shock, Intestinal perforation sexually transmitted disease syphilis tetanus neonatorum (A33.1), obstatric tetanus (A34.10), or other tetanus (A35) Tuutsugamushi disease (A75.3)	Others Others	aged ≥18 years aged 15-89 years
Iwagami 2016 Tagami 2015 Tanihara 2011 Matsubayashi 2020 Nakajima 2011 Yasunaga 201 Tobise 2010	observational natiomxide study 1 Effects of Polymyxin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Natiomxide Administrative Database in Japan 6 Potential Survival Benefit of Polymyxin B Hemoperfusion in Septic Shock Patients on Continuous Remal Replacement: Therapy: A Propensity: Matched Analysis 1 Intravenous immunoglobulin use in septic shock patients after emergency laparotomy 11 [Investigation of descriptions of sexually transmitted diseases in medical fee statements] ¹⁴ 15 Synthis testing among spouses of patients with syphilis in Japan: an epidemiological study using an administrative claims database 12 Clinical features and outcomes of tetanus: Analysis using a National Inpatient Database in Japan 11 Delay in tetracycline treatment increases the risk of complications in Tsutsugamushi disease: data from the Japanese Diagnosis Procedure Combination database	DPC DPC Others JMDC DPC DPC DPC	DPC Research Group	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2016 2007 2010 2006 2010 2010 2010 2007	2019 Intervention effect 2012 Intervention effect 2013 Intervention effect 2006 Clinical epidemiology, course of diseases 2017 Middial treatment status 2015 Clinical epidemiology, course of diseases 2008 Clinical epidemiology, course of diseases	Medical treatment status	diseases Certain infectious and parasitic diseases Certain infectious and parasitic	system Injury, poisoning and certain other	Septic shock, Continuous Renal Replacement Therapy septic shock, intestinal perforation sexually transmitted disease syphilis tetanus neonatorum (A33.1), obstetric tetanus (A34.10), or ofher tetanus (A35) Tautsugamushi disease (A75.3) tuberculosis	Others Others	aged ≥18 years aged 15-89 years
Iwagami 2016 Tagami 2015 Tanihara 2011 Matsubayashi 2020 Nakajima 201 Yasunaga 201 Tobise 2010 Yamana 2021	observational natiomxide study Effects of Polymyxin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Attaiomxide Administrative Database in Japan 6 Potential Survival Benefit of Polymyxin B Hemoperfusion in Septic Shock Patients on Continuous Renal Replacement Therapy. A Propensity Matched Analysis in Intravenous immunoglobulin use in septic shock patients after emergency laparotomy 11 [Investigation of descriptions of sexually transmitted diseases in medical fee statements] ² 13 syphilis testing among spouses of patients with syphilis in Japan: an epidemiological 14 study using an administrative claims database 15 Clinical features and outcomes of tetanus: Analysis using a National Inpatient Database in Japan 11 Delay in tetracycline treatment increases the risk of complications in Tsutsugamushi disease: data from the Japanese Disgnosis Procedure Combination database [A DRG/PPS simulation in the medical care of tuberculosis] 11 Treatment of latent tuberculosis infection in patients receiving biologic agents	: DPC DPC Others JMDC DPC DPC Others JMDC	Insurance society DPC Research Group 19 hospitals under the National Hospita Organization	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide	Ceity	2016 2007 2010 2006 2010 2010 2010 2007 2007 2005	2019 Intervention effect 2012 Intervention effect 2013 Intervention effect 2006 Clinical epidemiology, course of diseases 2017 Medical treatment status 2016 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 20208 Clinical epidemiology, course of diseases 20208 Health economics 2018 Medical treatment status		diseases Certain infectious and parasitic diseases Certain infectious and parasitic diseases	system Injury, poisoning and certain other consequences of external causes	Septic shock, Continuous Renal Replacement Therapy septic shock, Intestinal perforation sexually transmitted disease syphilis tetanus neonatorum (A33.1), obstatric tetanus (A34.10), or other tetanus (A35) Tautaugamushi disease (A75.3) tuberculosis immune-mediated inflammatory diseases, tuberculosis	Others Others Others Others Others	aged ≥18 years aged 15-89 years 20-74 years of age aged 20-64 years
Iwagami 2016 Tagami 2015 Tanihara 2011 Matsubayashi 2020 Nakajima 2011 Yasunaga 201 Tobise 2010	observational nationxide study Effects of Polymyxin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Nationxide Administrative Database in Japan 6 Potential Survival Benefit of Polymyxin B Hemoperfusion in Septic Shock Patients on Continuous Real Replacement Therapy. A Propensity-Matched Analysis in Intravenous immunoglobulin use in septic shock patients after emergency laparotomy 11 [Investigation of descriptions of sexually transmitted diseases in medical fee statements]* 13 Synliit steating among spouses of patients with syphilis in Japan: an epidemiological 14 studies and administrative claims database 15 Clinical features and outcomes of tetanus: Analysis using a National Inpatient Database in Japan 10 Delay in tetracycline treatment increases the risk of complications in Tsutsugamushi disease: data fom the Japanese Diagnosis Procenter Combination database [A DRG/PPS simulation in the medical care of tuberculosis]	: DPC DPC Others JMDC DPC DPC Others JMDC	Insurance society DPC Research Group 19 hospitals under the National Hospita Organization	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide	C city, Tokyo	2016 2007 2010 2006 2010 2010 2010 2007 2007	2019 Intervention effect 2012 Intervention effect 2013 Intervention effect 2006 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2020 Clinical epidemiology, course of diseases 20208 Health economics	Medical treatment status Quality of care	diseases Certain infectious and parasitic diseases Certain infectious and parasitic diseases	system Injury, poisoning and certain other consequences of external causes	Septic shock, Continuous Renal Replacement Therapy septic shock, Intestinal perforation sexually transmitted disease syphilis tetanus neonatorum (A33.1), obstatric tetanus (A34.10), or other tetanus (A35) Tautaugamushi disease (A75.3) tuberculosis immune-mediated inflammatory diseases, tuberculosis	Others Others Others	aged ≥18 years aged 15-89 years 20-74 years of age
Iwagami 2016 Tagami 2015 Tanihara 2011 Matsubayashi 2020 Nakajima 201 Yasunaga 201 Tobise 2010 Yamana 2021	observational nationwide study Effects of Polymykin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Nationwide Administrative Database in Japan 6 Potential Survival Benefit of Polymykin B Hemoperfusion in Septic Shock Patients on Continuous Renal Replacement Therapy: A Propensity Matched Analysis 1 Intravenous immunoglobulin use in septic shock patients after emergency laparotomy 11 [Investigation of descriptions of sexually transmitted diseases in medical fee statements]* 13 Synhils testing among spouses of patients with synhilis in Japan: an epidemiological study using an administrative claims database 13 Clinical features and outcomes of tetanus: Analysis using a National Inpatient Database in Japan 11 Delay in tetracycline treatment Increases the risk of complications in Tsutsugamushi disease: data from the Japanese Diagnosis Procedure Combination database [A DRG/PPS simulation in the medical care of tuberculosis] 11 Treatment of latent tuberculosis infection in patients receiving biologic agents Tuberculosis screening and management of latent tuberculosis infection prior to biologic	: DPC DPC Others JMDC DPC DPC Others JMDC	Insurance society DPC Research Group 19 hospitals under the National Hospita Organization	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2016 2007 2010 2006 2010 2010 2010 2007 2007 2005	2019 Intervention effect 2012 Intervention effect 2013 Intervention effect 2006 Clinical epidemiology, course of diseases 2017 Medical treatment status 2016 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 20208 Clinical epidemiology, course of diseases 20208 Health economics 2018 Medical treatment status		diseases Certain infectious and parasitic diseases Certain infectious and parasitic	system Injury, poisoning and certain other consequences of external causes	Septic shock, Continuous Renal Replacement Therapy septic shock, Intestinal perforation sexually transmitted disease syphilis tetanus neonatorum (A33.1), obstetric tetanus (A34.10), or other tetanus (A35) Tsutsugamushi disease (A75.3) tuberculosis immune-mediated inflammatory diseases, tuberculosis	Others Others Others Others Others	aged ≥18 years aged 15-89 years 20-74 years of age aged 20-64 years
Iwagami 2016 Tagami 2015 Tanihara 2011 Matsubayashi 2020 Nakajima 2011 Yasunaga 201 Tobise 2010 Yamana 2021 Iba 2020	observational natiomxide study 1 Effects of Polymyxin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Natiomxide Administrative Database in Japan 6 Potential Survival Benefit of Polymyxin B Hemoperfusion in Septic Shock Patients on Continuous Renal Replacement Therapy. A Propensity Matched Analysis 1 Investigation of descriptions of sexually transmitted diseases in medical fee statements]* 1 [Investigation of descriptions of sexually transmitted diseases in medical fee statements]* 2 Clinical Resurs and outcomes of teatures: Analysis using a National Inpatient Database in Japan 21 Clinical Resurs and outcomes of teatures: Analysis using a National Inpatient Database in Japan 21 Delay in tetracycline treatment increases the risk of complications in Tsutsugamushi disease: data from the Japanase Diagnosis Procedure Combination database [A DRG/PPS simulation in the medical care of tuberculosis] 1 Treatment of latent tuberculosis infection prior to biologic treatment in patients with immune-mediated inflammatory diseases: A longitudinal Tuberculosis screening and management of latent tuberculosis infection prior to biologic	: DPC DPC DPC Others JMDC DPC DPC Others JMDC NHI/LSEHS	Insurance society DPC Research Group 19 hospitals under the National Hospita Organization	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide	Tokyo	2016 2007 2010 2006 2010 2010 2010 2007 2007 2005	2019 Intervention effect 2012 Intervention effect 2013 Intervention effect 2006 Clinical epidemiology, course of diseases 2017 Medical treatment status 2016 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 20208 Clinical epidemiology, course of diseases 20208 Health economics 2018 Medical treatment status		diseases Certain infectious and parasitic diseases Certain infectious and parasitic	system Injury, poisoning and certain other consequences of external causes	Septic shock, Continuous Renal Replacement Therapy septic shock, intestinal perforation sexually transmitted disease syphilis tetanus neonatorum (A33.1), obstetric tetanus (A34.10), or other tetanus (A35) Tautsugamushi disease (A75.3) tuberculosis immune-mediated inflammatory diseases, tuberculosis immune-diated inflammatory diseases, Tuberculosis	Others Others Others Others Others	aged ≥18 years aged 15-89 years 20-74 years of age aged 20-64 years
Iwagami 2016 Tagami 2015 Tanihara 2011 Matsubayashi 2020 Nakajima 2011 Yasunaga 201 Tobise 2010 Yamana 2021 Iba 2020 Yamada 2021	observational nationxide study Effects of Polymyxin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Automixide Administrative Database in Japan 6 Potential Survival Benefit of Polymyxin B Hemoperfusion in Septic Shock Patients on Continuous Real Replacement Therapy: A Propensity-Matched Analysis 1 Intravenous immunoglobulin use in septic shock patients after emergency laparotomy 11 [Investigation of descriptions of sexually transmitted diseases in medical fee statements]* 13 Synthis testing among spouses of patients with synthils in Japan: an epidemiological study using an administrative claims database 13 Clinical features and outcomes of tetanus: Analysis using a National Inpatient Database in Japan 11 Delay in tetracycline treatment increases the risk of complications in Tsutsugamushi disease: data from the Japanese Diagnosis Procedure Combination database 14 DRG/PPS simulation in the medical care of tuberculosis infection prior to biologic treatment in patients with immune-mediated inflammatory diseases: A longitudinal population-based analysis using databases. 14 Denzember 10 Japan among patients with a history of splenectomy: Results of a retrospective administrative database tudy	: DPC DPC DPC Others JMDC DPC DPC Others JMDC NHI/LSEHS JMDC	Insurance society DPC Research Group 19 hospitals under the National Hospita Organization NHI	Nationwide	Tokyo	2016 2007 2010 2006 2010 2010 2007 2007 2005 2012	2019 Intervention effect 2012 Intervention effect 2013 Intervention effect 2006 Clinical epidemiology, course of diseases 2017 Medical treatment status 2016 Clinical epidemiology, course of diseases 2008 Clinical epidemiology, course of diseases 2008 Health economics 2018 Medical treatment status 2019 Medical treatment status 2019 Medical treatment status 2019 Medical treatment status	Quality of care	diseases Certain infectious and parasitic diseases Certain infectious and parasitic diseases	system Injury, poisoning and certain other consequences of external causes of external causes of external causes of external causes	Septic shock, Continuous Renal Replacement Therapy septic shock, Intestinal perforation sexually transmitted disease syphilis tetanus neonatorum (A33.1), obstetric tetanus (A34.10), or other tetanus (A35) Tsutsugamushi disease (A75.3) tuberculosis immune-mediated inflammatory diseases, tuberculosis overwhelming post-splenectomy infection	Others Others Others Others Others Others	aged ≥18 years aged 15-89 years 20-74 years of age aged 20-64 years 15-74 year of age
Iwagami 2016 Tagami 2015 Tanihara 2011 Matsubayashi 2020 Nakajima 2011 Yasunaga 201 Tobise 2010 Yamana 2021 Iba 2020	observational nationxide study 1 Effects of Polymyxin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Attomxide Administrative Database in Japan 6 Potential Survival Benefit of Polymyxin B Hemoperfusion in Septic Shock Patients on Continuous Renal Replacement Therapy. A Propensity Matched Analysis 1 Intravenous immunoglobulin use in septic shock patients after emergency laparotomy 11 [Investigation of descriptions of sexually transmitted diseases in medical fee statements] ¹⁸ 13 Synthil Steating among spouses of patients with syphilis in Japan: an epidemiological 14 study using an administrative claims database 15 Clinical features and outcomes of tetanus: Analysis using a National Inpatient Database 11 Delay in tetracycline treatment increases the risk of complications in Tsutsugamushi disease: data from the Japanese Disgnois Procedure Combination database [A DRG/PPS simulation in the medical care of tuberculosis] 11 Treatment of latent tuberculosis Infection in patients receiving biologic agents Tuberculosis screening and management of latent tuberculosis infection prior to biologic treatment in patients with immun-mediated inflammatory diseases: A longitudinal population-based analysis using claims data	: DPC DPC DPC Others JMDC DPC DPC Others JMDC NHI/LSEHS	Insurance society DPC Research Group 19 hospitals under the National Hospita Organization	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Municipality	Tokyo	2016 2007 2010 2006 2010 2010 2007 2007 2005 2012	2019 Intervention effect 2012 Intervention effect 2013 Intervention effect 2006 Clinical epidemiology, course of diseases 2017 Medical treatment status 2016 Clinical epidemiology, course of diseases 2008 Clinical epidemiology, course of diseases 2008 Clinical epidemiology, course of diseases 2008 Health economics 2018 Medical treatment status 2019 Medical treatment status		diseases Certain infectious and parasitic diseases Certain infectious and parasitic diseases	system Injury, poisoning and certain other consequences of external causes of external causes of external causes of external causes	Septic shock, Continuous Renal Replacement Therapy septic shock, intestinal perforation sexually transmitted disease syphilis tetanus neonatorum (A33.1), obstetric tetanus (A34.10), or other tetanus (A35) Tautsugamushi disease (A75.3) tuberculosis immune-mediated inflammatory diseases, tuberculosis immune-diated inflammatory diseases, Tuberculosis	Others Others Others Others Others Others	aged ≥18 years aged 15-89 years 20-74 years of age aged 20-64 years 15-74 year of age
Iwagami 2016 Tagami 2015 Tanihara 2011 Matsubayashi 2020 Nakajima 2011 Yasunaga 2011 Yamana 2021 Uba 2020 Yamada 2021 Nakamura 2015	observational nationxide study 1 Effects of Polymyxin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Nationxide Administrative Database in Japan 6 Potential Survival Benefit of Polymyxin B Hemoperfusion in Septic Shock Patients on Continuous Renal Replacement Therapy. A Propensity Matched Analysis 1 Intravenous immunoglobulin use in septic shock patients after emergency laparotomy 11 [Investigation of descriptions of sexually transmitted diseases in medical fee statements]* 12 Sphills testing among spouses of patients with syphills in Japan: an epidemiological study using an administrative claims database 13 Clinical features and outcomes of tetanus: Analysis using a National Inpatient Database in Japan 10 Delay in tetracycline treatment increases the risk of complications in Tsutsugamushi digease: data from the Japanese Diagnosis Procedure Combination database [A DRG/PPS simulation in the medical care of tuberculosis] 1 Treatment of latent tuberculosis infection in patients receiving biologic agents Tuberculosis screening and management of latent tuberculosis infection prior to biologic treatment in patients with immun-mediated infimamotry diseases: A longitudinal population-based analysis using claims data 1 Pneurococcal vaccine coverage in Japan among patients with himatory of splenectomy; Results of a rerospective administrative database study Evaluation of the Number of Varicella Patients Estimated by Prescription Surveillance	: DPC DPC DPC Others JMDC DPC DPC Others JMDC NHI/LSEHS JMDC NDB	Insurance society DPC Research Group 19 hospitals under the National Hospita Organization NHI Aggregated data: Prescription Surveillance	Nationwide	Tokyo	2016 2007 2010 2006 2010 2010 2007 2007 2007 2005 2012 2005 2010	2019 Intervention effect 2012 Intervention effect 2013 Intervention effect 2006 Clinical epidemiology, course of diseases 2017 Medical treatment status 2016 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2008 Health economics 2018 Medical treatment status 2019 Medical treatment status 2019 Medical treatment status 2019 Medical treatment status 2013 Clinical epidemiology, course of diseases	Quality of care	diseases Certain infectious and parasitic diseases Certain infectious and parasitic	system Injury, poisoning and certain other consequences of external causes of external causes of external causes of external causes	Septic shock, Continuous Renal Replacement Therapy septic shock, Intestinal perforation sexually transmitted disease syphilis tetanus neonatorum (A33.1), obstetric tetanus (A34.10), or other tetanus (A35) Tsutsugamushi disease (A75.3) tuberculosis immune-mediated inflammatory diseases, tuberculosis immunemediated inflammatory diseases, Tuberculosis overwhelming post-splenectomy infection Varicella	Others Others Others Others Others Others	aged ≥18 years aged 15-89 years 20-74 years of age aged 20-64 years 15-74 year of age aged 2-64 years
Iwagami 2016 Tagami 2015 Tanihara 2011 Matsubayashi 2020 Nakajima 2011 Yasunaga 201 Yamana 2021 Iba 2020 Yamada 2021 Nakamura	observational nationxide study Effects of Polymyxin B Hemoperfusion on Septic Shock Patients Requiring Noradrenaline Analysis of a Automixide Administrative Database in Japan 6 Potential Survival Benefit of Polymyxin B Hemoperfusion in Septic Shock Patients on Continuous Real Replacement Therapy: A Propensity-Matched Analysis 1 Intravenous immunoglobulin use in septic shock patients after emergency laparotomy 11 [Investigation of descriptions of sexually transmitted diseases in medical fee statements]* 13 Synthis testing among spouses of patients with synthils in Japan: an epidemiological study using an administrative claims database 13 Clinical features and outcomes of tetanus: Analysis using a National Inpatient Database in Japan 11 Delay in tetracycline treatment increases the risk of complications in Tsutsugamushi disease: data from the Japanese Diagnosis Procedure Combination database 14 DRG/PPS simulation in the medical care of tuberculosis infection prior to biologic treatment in patients with immune-mediated inflammatory diseases: A longitudinal population-based analysis using databases. 14 Denzember 10 Japan among patients with a history of splenectomy: Results of a retrospective administrative database tudy	: DPC DPC DPC Others JMDC DPC DPC Others JMDC NHI/LSEHS JMDC	Insurance society DPC Research Group 19 hospitals under the National Hospital Organization NHI Aggregated data: Prescription	Nationwide	Tokyo	2016 2007 2010 2006 2010 2010 2007 2007 2005 2012	2019 Intervention effect 2012 Intervention effect 2013 Intervention effect 2006 Clinical epidemiology, course of diseases 2017 Medical treatment status 2016 Clinical epidemiology, course of diseases 2020 Clinical epidemiology, course of diseases 2020 Clinical epidemiology, course of diseases 2020 Health economics 2018 Medical treatment status 2019 Medical treatment status 2019 Medical treatment status 2019 Medical treatment status 2019 Medical treatment status 2013 Clinical epidemiology, course of diseases	Quality of care	diseases Certain infectious and parasitic diseases Certain infectious and parasitic diseases	system Injury, poisoning and certain other consequences of external causes of external causes of external causes of external causes	Septic shock, Continuous Renal Replacement Therapy septic shock, Intestinal perforation sexually transmitted disease syphilis tetanus neonatorum (A33.1), obstetric tetanus (A34.10), or other tetanus (A35) Tsutsugamushi disease (A75.3) tuberculosis immune-mediated inflammatory diseases, tuberculosis overwhelming post-splenectomy infection	Others Others Others Others Others Others	aged ≥18 years aged 15-89 years 20-74 years of age aged 20-64 years 15-74 year of age

Yanaihara	[Current state of surgical therapy for adrenal tumors based on DPC data from 2006 to	DPC	DPC Research Group	Nationwide		2006	2008 Medical treatment status		Neoplasms		adrenalectomy cases		
2011	2008: A comparison between urology and surgery]*										*		
	Prevalence of bile duct cancer among printing industry workers in comparison with other industries	JHIA	Japan Health Insurance Association (JHIA)	Nationwide		2009	2012 Clinical epidemiology, course of diseases		Neoplasms		Bile Duct Cancer (C22.1 and C24.0)		
	monopolar and bipolar transurethral resection of bladder tumors: a population based	DPC	(3100)	Nationwide		2007	2012 Intervention effect		Neoplasms	Injury, poisoning and certain other consequences of external causes	bladder tumor, bladder injury		
	comparison Volume effect in paediatric brain tumour resection surgery: analysis of data from the	DPC		Nationwide		2012	2016 Clinical epidemiology, course of	Health policy evaluation and	Neoplasms		brain tumour	Children	aged 15 years old and
	Japanese national inpatient database Impact of remifentanil use on early postoperative outcomes following brain tumor	DPC		Nationwide		2007	diseases 2007 Intervention effect	utilization	Neoplasms		brain tumor or rectal cancer		younger
	resection or rectal cancer surgery	DFC		Nationwide		2007	2007 Intervention effect		Neoplasins		brain tumor or rectal cancer		
2016	Malignant Brain Tumor in Japan: A National Survey Using the Diagnostic Procedure	DPC	J-ASPECT Study- Brain Tumor	Nationwide		2013	2014 Medical treatment status	Health economic	s Neoplasms		primary malignant brain tumors		
	Combination Database (J-ASPECT Study-Brain Tumor) Visionary approach for the treatment of brain tumors	DPC	J-ASPECT Study	Nationwide		2013	2014 Clinical epidemiology, course of	f Medical treatment statu	s Neoplasms		brain tumors		
2015							diseases	1					
	Economic Evaluation of First-Line Pertuzumab Therapy in Patients with HER2-Positive Metastatic Breast Cancer in Japan	JMDC	CLEOPATRA trial, published sources	Nationwide		2005	2017 Health economics		Neoplasms		receptor-2 (HER2)-positive breast cancer	Others	elderly people (aged >7 years) are not included
	using a claims database in Japan	JMDC		Nationwide		2005	2018 Medical treatment status		Neoplasms		Brest cancer (ICD-10code: C50)	Others	reproductive age (15 to 49 years)
	Epidemiology and practice patterns for male breast cancer compared with female breast cancer in Japan	DPC	HBCR+DPC	Nationwide		2012	2015 Clinical epidemiology, course of diseases	Medical treatment status	Neoplasms		breast cancer patients (ICD-O-3)		
Matsumoto	Association between variations in the number of hospital beds and inpatient	DPC		Nationwide		2012	2016 Health policy evaluation and		Neoplasms		breast cancer patients		
Sakata 2019	chemo/radiotherapy for breast cancer: a study using a large claim database Use of a Healthcare Claims Database for Post-Marketing Safety Assessments of Eribulin in Japan: A Comparative Assessment with a Prospective Post-Marketing Surveillance	MDV		Nationwide		2011	utilization 2016 Health policy evaluation and utilization		Neoplasms		breast cancer		
	Study												
Sato 2015	The accuracy of Japanese claims data in identifying breast cancer cases	Others	claims data, standardized hospital-based	Others	a single institutio n	2011	2011 Research methodology		Neoplasms		breast cancer	Others	
Goto 2017	Cost analysis of leuprorelin acetate in Japanese pre-menopausal breast-cancer patients:	MDV	cancer registry web-based survey to	Nationwide		2008	2016 Health economics		Neoplasms		pre-menopausal breast cancer		
	comparison between 6-month and 3-month depot formulations		determine the intangible costs										
	Risk of Cancer in Association with Ranitidine and Nizatidine vs Other H2 Blockers: Analysis of the Japan Medical Data Center Claims Database 2005-2018	JMDC		Nationwide		2005	2018 Intervention effect		Neoplasms		ICD-10 C00-C96 (excluding C44)	Others	excluded patients aged < 18 years
Makito 2020		DPC		Nationwide		2010	2018 Intervention effect		Neoplasms		patients having digestive cancer surgery	Others	age of greater than or equal to 18 yr
	Geriatric assessment domains to predict overall survival in older cancer patients: An analysis of functional status, comorbidities, and nutritional status as prognostic factors	DPC	Osaka Cancer Registry + DPC	Prefecture	Osaka	2010	2014 Prediction model	Clinical epidemiology, course of diseases	Neoplasms		gastric, colorectal, and lung cancer (ICD-O-3: C16, C18, C19, C20, C33, C34)	Older persons	patients aged 70 years or olde
	Usability of Clinical Information in Discharge Summary Data in the Diagnosis Procedure Combination Survey for Cancer Patients	DPC	HBCR + DPC	Nationwide		2012	2014 Research methodology		Neoplasms		stomach, colorectal, liver, lung, or breast cancer	r Others	over the age of 20 years
Yazaki 2020		DPC	Hospital-based Cancer Registries + DPC	Nationwide		2013	2015 Medical treatment status		Neoplasms		patients diagnosed with cancer	Others	aged 20 and older
	[Proportion of cancer detected by screening and early-stage cancer among cancer patients by type of medical insurance and family members]*	DPC	Osaka Cancer Registry + DPC	Prefecture	Osaka	2010	2015 Socioeconomic comparison		Neoplasms		stomach cancer, colon cancer, lung cancer, breast cancer, cervical cancer	Others	aged 40-59 years (cervical cancer: 20-59 years)
Bun 2019	Analysis of concordance with antiemetic guidelines in pediatric, adolescent, and young adult patients with cancer using a large-scale administrative database	DPC		Nationwide		2010	2016 Quality of care		Neoplasms		patients who were diagnosed with any cancer (ICD10 codes: C00-D48)	Others	age <30 years
	Association between perioperative oral care and postoperative pneumonia after cancer	JMDC		Nationwide		2014	2015 Intervention effect		Neoplasms		head and neck, lung, gastric, colorectal, breast,		
	resection: conventional versus high-dimensional propensity score matching analysis Assessment of "look-alike" packaging designs related to medication errors using	JMDC		Nationwide		2016	2016 Medical treatment status		Neoplasms		and esophageal cancer cancer patients	Others	aged 0–74 years
Yamada 2019	information technology A descriptive epidemiological study on the treatment options for head and neck cancer: Transition before and after approval of cetuximab	MDV		Nationwide		2008	2015 Medical treatment status	Health policy evaluation and utilization	Neoplasms		lip and oral cancer, nasopharyngeal cancer, oropharyngeal cancer, hypopharyngeal cancer, laryngeal cancer, and nasal/paranasal sinus		
Yokoyama	Integrative analysis of clinical and bioinformatics databases to identify anticancer	IMDC		Nationwide		2005	2015 Intervention effect		Neoplasms		cancer (ICD10 codes: C00 - C06, C09 - C14, C30.0, C31, and C32) gastric cancer, colorectal cancer, prostate		
2019	properties of digoxin			HAUDINNUE					NeopidSIIIS		gastric cancer, colorectal cancer, prostate cancer and haematological malignancy		
	Preoperative oral care and effect on postoperative complications after major cancer surgery	NDB		Nationwide		2012	2015 Intervention effect		Neoplasms		head and neck ,oesophageal,gastric,colorectal,lung or liver	Others	Those aged <18 years were excluded
	Prevalence and initial prescription of psychotropics in patients with common cancers in Japan, based on a nationwide health insurance claims database	JMDC		Nationwide		2009	2014 Medical treatment status		Neoplasms		cancer breast, colorectal, liver, lung, ovarian, pancreatic, prostate, or stomach cancer	Others	aged ≥18 years
Sato 2018	End-of-life care for cancer patients in Japanese acute care hospitals: A nationwide	DPC		Nationwide		2011	2014 Medical treatment status		Neoplasms		malignant neoplasm (C00-97)	Others	age ≥20 years
Urushiyama	retrospective administrative database survey Effect of Hangeshashin-To (Japanese Herbal Medicine Tj-14) on Tolerability of Irinotecan: Propensity Score and Instrumental Variable Analyses	DPC		Nationwide		2010	2016 Intervention effect		Neoplasms		patients with a diagnosis of neoplasm defined by ICD10		
Matsuda 2018	influence. Trupensity soure and instrumentary variative marganes (Big data analysis) of medical and nursing care: An examination of days of the week for cancer outpatient chemotherapy)*	Others	Japan Health Insurance Association, National Health Insurance, Latter-stage elderly healthcare system	Others	A municip ality in Western Japan	2013	2015 Medical treatment status		Neoplasms		patients received outpatient chemotherapy		

	Prescription of Prophylactic Antiemetic Drugs for Patients Receiving Chemotherapy With Minimal and Low Emetic Risk	DPC	linked with the hospital-based	Nationwide		2010	2012 Medical treatment status		Neoplasms	breast, lung, colorectal, stomach, cervical, or Others prostate cancer	20 years older
Ikeda 2016		JMDC	cancer registry	Nationwide		2008	2013 Medical treatment status		Neoplasms	cancer patients scheduled for chemotherapy	
	Japan Monitoring and evaluating the quality of cancer care in Japan using administrative claims data	DPC	HBCR+DPC	Nationwide		2010	2012 Quality of care		Neoplasms	colorectal, lung, stomach, liver, breast, prostate	
Kunisawa 2016	Reducing Length of Hospital Stay Does Not Increase Readmission Rates in Early-Stage	DPC		Nationwide		2010	2014 Quality of care		Neoplasms	and cervical cancer patients gastric, colon, and lung cancer surgical patients	
Takada 2016	Gastric, Colon, and Lung Cancer Surgical Cases in Japanese Acute Care Hospitals Inverse Association between Sodium Channel-Blocking Antiepileptic Drug Use and Cancer: Data Mining of Spontaneous Reporting and Claims Databases	JMDC		Nationwide		2005	2014 Intervention effect		Neoplasms	bladder cancer, lung cancer, pancreatic cancer, gastric cancer, esophageal cancer, hematological malignancies, melanoma, breast cancer, and prostate cancer	
	Staging discrepancies between Hospital-Based Cancer Registry and Diagnosis Procedure Combination data	DPC	HBCR and DPC	Others	four voluntari ly participa ting hospital	2011	2011 Research methodology		Neoplasms	tumor-node-metastasis classification	
Tsukada 2016	Patterns of prescribing radiotherapy and bevacizumab in nationwide practice-analysis of	DPC	HBCR+DPC	Nationwide	s	2011	2012 Medical treatment status		Neoplasms	patients who received both externalbeam	
Uda 2016	101 designated cancer care hospitals in Japan [The current status of cancer rehabilitation in Japan : an analysis from diagnosis	DPC		Nationwide		2011	2014 Medical treatment status	Health policy evaluation and	Neoplasms	radiotherapy and bevacizumab cancer rehabilitation	
Sato 2016	procedure combination database] [A Preliminary Survey to Measure the Quality Indicators of End-of-life Cancer Care Using	NDB	Sampling data	Nationwide		2012	2012 Quality of care	utilization Research methodology	Neoplasms	cancer patients Others	excluded patients aged
	the Japanese National Database]	JMDC		Nationwide		2005	2013 Intervention effect		Neoplasms	lung cancer, pancreatic cancer, gastric cancer,	<20 years
Pujimoto 2015	Association between statul use and cancer, data mining or a spontaneous reporting database and a claims database	INDC		Nationwide		2005	2013 Intervention enect		неоразліть	esophageal cancer, breast cancer, hematological malignancies, melanoma, and prostate cancer	
	Accuracy of using Diagnosis Procedure Combination administrative claims data for estimating the amount of opioid consumption among cancer patients in Japan	DPC	compared with electronic medical records	Others	Aomori Prefectu ral Central Hospital	2012	2013 Research methodology		Neoplasms	opioid consumption among cancer patients	
Tanaka 2015	[Cancer treatment situation in Japan with regard to the type of medical facility using medical claim data of Health Insurance Societies]	JMDC		Nationwide	Hospital	2005	2011 Patient health service utilization		Neoplasms	stomach, colon, liver, lung, or breast cancer	
	Association of the life and the second secon	NHI/LSEHS	Insurance (NHI) and Long Life Medical	Prefecture	Kyoto	2009	2010 Health economics		Neoplasms	Lung, Stomach, Pancreas, Prostate, Breast, Colorectum, Liver, Biliary tract, blood, Other	
Okuyama 2014	Prescription trends of prophylactic antiemetics for chemotherapy-induced nausea and vomiting in Japan	JMDC	Care System	Nationwide		2005	2011 Medical treatment status		Neoplasms	those who recceived chemotherapy with high or Others moderate emetic risks	patients 18 years old or older
Shibata 2014		NDB	Patient Survey (MHLW)	Nationwide		2010	2011 Research methodology	Clinical epidemiology, course of diseases	Neoplasms	cancer patients	older
Watanabe 2014	[Estimating duplicate registration rates in hospital cancer registries]*	JMDC	(WILEW)	Nationwide		2005	2010 Clinical epidemiology, course of diseases	Research methodology	Neoplasms	lung, stomach, liver, breast, colon cancer	
	Impact of hospital case volume on quality of end-of-life care in terminal cancer patients	NHI/LSEHS	National Health Insurance (NHI) and Long Life Medical Care System	Prefecture	Kyoto	2009	2010 Quality of care	Health policy evaluation and utilization	Neoplasms	died of cancers	
Nakamura 2013	Pattern of prophylaxis administration for chemotherapy-induced nausea and vomiting: an analysis of city-based health insurance data	NHI/LSEHS	a city-based insurance program	Municipality	Kure city, Hiroshi ma	2008	2010 Medical treatment status		Neoplasms	who received any of these chemotherapy drugs Others	age 20 or older and under 75
	[Application of Japanese Claims Database to Pharmacovigilance Activity in Pharmaceutical Industry; Analysis on Cancer Incidences and Usage of Anticancer Agents]	JMDC		Nationwide		2011	2011 Health policy evaluation and utilization		Neoplasms	cancer patients	
Higashi 2012	Prevalence of analgesic prescriptions among patients with cancer in Japan: an analysis of health insurance claims data	JMDC		Nationwide	from 8 employe r- sponsor ed insuranc e compani	2005	2009 Medical treatment status		Neoplasms	breast, colorectal, stomach, lung, and liver Others cancers	below 75 years old
	retrospective observational study using the Japanese Diagnosis Procedure Combination	DPC		Nationwide	es	2007	2008 Health policy evaluation and utilization		Neoplasms	lung, esophageal, gastric, colorectal, and pancreatic cancer	
	Database [Data Analysis Method for More Efficient Integration of Cancer Treatment Centers and Secondary Medical Service Areas]	NHI/LSEHS	Fukuoka	Prefecture	Fukuoke	2008	2010 Health policy evaluation and utilization		Neoplasms	gastric, colorectal, liver, lung and breast cancers	
Kuroda 2020	Secondary Medical Service Areasj Survey on off-label use of antineoplastic agents in pediatric patients using a large-scale medical database in japan	MDV		Nationwide		2016	2017 Medical treatment status		Neoplasms	cancers off-label use of antineoplastic agents in Children pediatric patients	0–14 years of age
	meuroa uacapase m jdþáll	MDV				2010	2015 Medical treatment status	Intervention effect	Neoplasms	malignant bowel obstruction impairs, Others	aged ≥20 years

Surihara 2012	Regional, institutional and individual factors affecting selection of minimally invasive	DPC		Nationwide	20	007	2010 Medical treatment status	Socioeconomic comparison	Neoplasms		nephroureterectomy, malignant neoplasms of		
Suginara 2013	Regional, institutional and individual factors affecting selection of minimally invasive nephroureterectomy in Japan: a national database analysis	DPC		Nationwide	20	007	2010 Medical treatment status	Socioeconomic comparison	Neoplasms		the renal pelvis or ureter		
Mimura 2020	Antimicrobial utilization and antimicrobial resistance in patients with haematological malignancies in Japan: a multi-centre cross-sectional study	DPC	JANIS data	Nationwide	20	015	2017 Medical treatment status		Neoplasms	Certain infectious and parasitic diseases	haematological malignancies, antimicrobials		
Kishi 2020	Impactored with a mark concerned to be section and y Impact of Behavioral Health Comorbidities on Health Care Costs Among Japanese Patients With Capper	JMDC		Nationwide	20	014	2015 Health economic	s	Neoplasms	Mental, Behavioral and Neurodevelopmental disorders	Cancer, behavioural health		
Morita 2017	Association between Nurse Staffing and In-Hospital Bone Fractures: A Retrospective Cohort Study	DPC		Nationwide	20	010	2014 Health policy evaluation and utilization		Neoplasms		cancer or cardiovascular diseases	Others	aged 50 years or older
Yamaji 2016	Association Between Colorectal Cancer and Atherosclerotic Diseases: A Study Using a National Inpatient Database in Japan	DPC		Nationwide	20	010	2012 Clinical epidemiology, course of diseases		Neoplasms	Diseases of the circulatory system	Colorectal cancer and atherosclerotic diseases		age groups
Akechi 2020	Treatment of Major Depressive Disorder in Japanese Patients with Cancer: A Matched	JMDC		Nationwide	20	012	2017 Medical treatment status		Neoplasms	Mental, Behavioral and	1) Newly diagnosis with cancer (ICD10: C00-	Others	adult (aged 18-74 years)
Akechi 2020	Cohort Study Using Employer-Based Health Insurance Claims Data Risk of major depressive disorder in spouses of cancer patients in Japan: A cohort study	JMDC		Nationwide	20	011	2018 Clinical epidemiology, course of	Others	Neoplasms	Neurodevelopmental disorders Mental, Behavioral and	 95), 2) major depressive disorder (F32 F33) 1) cancer (ICD10: C00-95), 2) major depressive 	e	
Akechi 2020	using health insurance-based claims data Risk of major depressive disorder in Japanese cancer patients: A matched cohort study	IMDC		Nationwide	20	012	diseases 2017 Clinical epidemiology, course of		Neoplasms	Neurodevelopmental disorders Mental, Behavioral and	disorder (F32 F32) 1) new diagnosis of cancer, 2) major depressive	e Others	adult (aged 18-74 years)
	using employer-based health insurance claims data						diseases			Neurodevelopmental disorders	disorder (F32 F32)		
Muramatsu 2013	Do the Japanese Cancer Patients Receive an Appropriate Psychiatric Support at the Acute Care Hospitals?: An Evaluation Trial by DPC Based Data	DPC		Nationwide	20	010	2010 Medical treatment status	Clinical epidemiology, course of diseases	Neoplasms	Mental, Behavioral and Neurodevelopmental disorders	breast cancer, depression and anxiety sympton (as comorbidity or complication)	n	
Matsuda 2010	[Cancer and psychiatric care: From the results of a study based on DPC data]*	DPC	DPC Research Group	Nationwide	20	008	2008 Medical treatment status	Clinical epidemiology, course of diseases	Neoplasms	Mental, Behavioral and Neurodevelopmental disorders	breast cancer, depressive disorders		
Taniguchi 202	Recombinant Thrombomodulin in Disseminated Intravascular Coagulation Associated	DPC		Nationwide	20	010	2018 Intervention effect		Neoplasms	Diseases of the blood and blood-	disseminated intravascular coagulation, solid	Others	aged ≥18 years
	with Stage IV Solid Tumors: A Nationwide Observational Study in Japan									forming organs and certain disorders involving the immune	tumors		
Kobayashi	The effect of centralization of health care services on travel time and its equality	JHIA	the Kyoto branch of	Prefecture	Kyoto 20	008	2009 Health policy evaluation and		Neoplasms	mechanism Diseases of the circulatory system	ischemic heart disease, breast cancer		
2015			the Japan Health Insurance Association				utilization						
Kaneko 2020	Association of cancer with outcomes in patients hospitalized for heart failure	DPC		Nationwide	20	010	2018 Clinical epidemiology, course of		Neoplasms	Diseases of the circulatory system	heart failure (HF) patients with concomitant	Others	aged ≥20 years
Mizuno 2021	Differences in aggressive treatments during the actively dying phase in patients with	NDB	Sampling data:	Nationwide	20	011	diseases 2015 Medical treatment status		Neoplasms	Diseases of the circulatory system	cancer cancer and heart disease (aggressive		
	cancer and heart disease: an exploratory study using the sampling dataset of the National Database of Health Insurance Claims		limited to DPC dataset								treatments)		
Inaida 2020	Previous Infection Positively Correlates to the Tumor Incidence Rate of Patients with Cancer	JMDC	Uataset	Nationwide	20	005	2012 Clinical epidemiology, course of diseases		Neoplasms	Certain infectious and parasitic diseases	 The case group was people who presented with malignant cancer, 2) influenza, gastroenteritis, hepatitis, and pneumonia 	Others	patients ≥30 years of age
											infections		
Sugihara 2015	Perioperative Outcome Comparisons Between Open and Laparoscopic Nephroureterectomy Among a Population-Based Cohort from 2010 to 2012	DPC		Nationwide	20	010	2012 Intervention effect	Health economics	Neoplasms	Diseases of the genitourinary system	nephroureteroectomy for malignant diseases		
Sato 2017	Mortality and hemorrhagic complications associated with radiofrequency ablation for treatment of hepatocellular carcinoma in patients on hemodialysis for end-stage renal	DPC		Nationwide	20	010	2012 Clinical epidemiology, course of diseases	Intervention effect	Neoplasms	Diseases of the genitourinary system	end-stage renal disease, hepatocellular carcinoma		
Watanabe	disease: A nationwide survey Quality indicators for cervical cancer care in Japan	DPC	HBCR + DPC	Nationwide	20	012	2014 Quality of care		Neoplasms		patients with cervical cancer (ICD-0		
2018											morphology: C53.0-53.9)		
Kobayashi 2020 Nakashima	[Incidence of Proteinuria among Japanese Colorectal Cancer Patients after Receiving Ramucirumab-Cohort Study Using Claim Database]	MDV		Nationwide		015	2018 Intervention effect		Neoplasms		Colorectal cancer patients (IDC10: C18-20)	Others	patients aged 18 years or older
2020	Effectiveness and Safety of Regorafenib vs. Trifluridine/Tipiracil in Unresectable Colorectal Cancer: A Retrospective Cohort Study			Nationwide		013			Neoplasms		metastatic colorectal cancer	Others	aged over 20 years
Tajima 2020	Open colectomy vs. laparoscopic colectomy in Japan: a retrospective study using real- world data from the diagnosis procedure combination database	DPC		Nationwide	20	014	2016 Intervention effect		Neoplasms		colorectal cancer (ICD10: C18 C19)		
Watanabe 2020	Preoperative rehabilitation for patients undergoing colorectal cancer surgery: a retrospective cohort study	DPC		Nationwide	20	014	2017 Intervention effect		Neoplasms		colorectal cancer C18-20 (ICD10)		
Nakashima	Comparison of Standard Initial Dose and Reduced Initial Dose Regorafenib for Colorectal	MDV		Nationwide	20	013	2018 Intervention effect		Neoplasms		colorectal cancer	Others	aged over 20 years
2019 Yamazaki 2013	Cancer Patients: A Retrospective Cohort Study Pre-emptive skin treatments to prevent skin toxicity caused by anti-EGFR antibody: the	MDV		Nationwide	20	008	2017 Medical treatment status		Neoplasms		colorectal cance (ICD10: C18 C19 C20)		
Wei 2018	real-world evidence in Japan [The Diffusion Rate and Regional Difference of the Insured with Colorectal Cancer	JHIA	Fukuoka Branch,	Prefecture	Fukuoka 20	014	2015 Medical treatment status	Socioeconomic comparison	Neoplasms		colorectal cancer		
	Outpatient Chemotherapy in Fukuoka Branch of Japan Health Insurance Association (FBJHIA)]		National Health Insurance Association										
Higuchi 2015	[THE INFLUENCE OF HOSPITAL VOLUME ON THE OUTCOME OF COLORECTAL CANCER RESECTIONS IN JAPAN]	DPC		Nationwide	20	007	2008 Health policy evaluation and utilization		Neoplasms		colorectal cancer resections		
Yasunaga 201	Effect of the Japanese herbal kampo medicine dai-kenchu-to on postoperative adhesive small bowel obstruction requiring long-tube decompression: a propensity score analysis	DPC	DPC Research Group	Nationwide	20	007	2008 Intervention effect		Neoplasms		underwent radical surgery for colorectal cancer	r	
Niikura 2016	Factors predicting adverse events associated with therapeutic colonoscopy for colorectal	DPC		Nationwide	20	013	2014 Clinical epidemiology, course of	Intervention effect	Neoplasms		colorectal neoplasia		
Yamazaki 202	neoplasia: a retrospective nationwide study in Japan Real-World Evidence on Second-Line Treatment of Metastatic Colorectal Cancer Using	MDV		Nationwide	20	008	diseases 2019 Intervention effect		Neoplasms		malignat neoplasm of colon (ICD10 code: C18-	Others	age 20 years or higher
Kawamura	Fluoropyrimidine, Irinotecan, and Angiogenesis Inhibitor Effect of adjuvant chemotherapy on survival benefit in stage III colon cancer patients	DPC	Osaka Cancer	Prefecture	Osaka 20	010	2014 Intervention effect	Medical treatment status	Neoplasms		20) stage III colon cancer	Others	and 90 years and below patients aged 18 years
2020 Sakamoto	stratified by age: a Japanese real-world cohort study [The influence of lifestyle-related disease on colon cancer by the decision tree analysis	DPC	Registry + DPC	Nationwide	20	010	2012 Clinical epidemiology, course of		Neoplasms		colon cancer	Others	or older age ≥20 years
	using DPC data]			Nationwide	20	016	diseases 2017 Intervention effect	Health economics	Neoplasms		esophageal cancer cases (C15.x)		
2018 Shin 2019	Effects of preoperative oral management by dentists on postoperative outcomes	DPC		Nationwide									
2018	· · ·	DPC		Nationwide			2017 Intervention enect		·				
2018 Shin 2019	Effects of preoperative oral management by dentists on postoperative outcomes following esophagectomy: Multilevel propensity score matching and weighting analyses	DPC	Combined with the hospital-based	Nationwide		012	2017 Medical treatment status		Neoplasms		patients diagnosed with resectable locally advanced thoracic esophageal squamous cell		

Margener derivation Margenerinderivation Margenerinderivation <th></th>													
Image Interaction of constraints of cons	Takeda 2019		MDV		Nationwide	2010	2016 Medical treatment status	Intervention effect	Neoplasms		esophageal cancer (ICD10 code C15)	Others	aged 20 years or older
Market	Hamamoto		DPC	DPC + HBCRs	Nationwide	2013	2013 Medical treatment status	Health economics	Neoplasms		esophageal cancer		
	2018						AAAB					A.1	
 vieweigenergie werkenderegie	Kunitomi 2021		MDV		Nationwide	2012	2017 Intervention effect		Neoplasms		gastric cancer (ICD-10 code C16)	Others	
Mark distributed with the series of a seri													,
Mark distributed with the series of a seri	-												
Image Image <t< td=""><td>Shibao 2020</td><td></td><td></td><td></td><td>Nationwide</td><td>2012</td><td>2013 Intervention effect</td><td>Health economics</td><td>Neoplasms</td><td></td><td>gastric cancer (ICD10: C16)</td><td></td><td></td></t<>	Shibao 2020				Nationwide	2012	2013 Intervention effect	Health economics	Neoplasms		gastric cancer (ICD10: C16)		
		Japan											
MainM	Yasunaga 2013	Outcomes after laparoscopic or open distal gastrectomy for early-stage gastric cancer: a	DPC		Nationwide	2010	2010 Intervention effect		Neoplasms		gastric cancer		
												0 .1	4.0
Main	Tahara 2020		MDV		Nationwide	2013	2016 Intervention effect		Neoplasms		head and neck cancer	Others	age ≥18 years
DataProvince of the strand of th	Suzuki 2016		DPC		Nationwide	2010	2013 Intervention effect		Neoplasms		head and neck cancer receiving platinumbas	ed	
Mathematical and angle angle angle angle angle angle angle angle angle ang		neck cancer: A retrospective analysis using a Japanese inpatient database									chemotherapy and concurrent radiotherapy		
Mathematical and angle angle angle angle angle angle angle angle angle ang													
Market /s Market /s <t< td=""><td>SUZUKI ZU18</td><td></td><td>DPC</td><td></td><td>Nationwide</td><td>2007</td><td>2014 Intervention effect</td><td></td><td>iveopiasms</td><td></td><td>patients underwent pnaryngolaryngectomy</td><td></td><td></td></t<>	SUZUKI ZU18		DPC		Nationwide	2007	2014 Intervention effect		iveopiasms		patients underwent pnaryngolaryngectomy		
Data Mark Mark Mark Mark Mark Mark Mark Mar	Ichimiya 2011		DPC		Nationwide	2008	2008 Medical treatment status		Neoplasms		laryngeal cancer		
matrix matrix matrix <td></td>													
Main <t< td=""><td>Tsutsumi 2019</td><td></td><td>DPC</td><td></td><td>Nationwide</td><td>2010</td><td>2015 Intervention effect</td><td></td><td>Neoplasms</td><td></td><td></td><td>: Others</td><td></td></t<>	Tsutsumi 2019		DPC		Nationwide	2010	2015 Intervention effect		Neoplasms			: Others	
origene tail for the field or the	Maeda 2014		DPC		Nationwide	2010	2010 Socioeconomic comparison	Medical treatment status	Neoplasms				years
Image: Problem Image:													
intermediation of the strain o	Okinaga 2018		DPC		Nationwide	2011	2012 Intervention effect		Neoplasms		hepatocellular carcinoma (ICD-10 code: C22	0) Others	aged ≥20 years
Binding darge of the dependence of													
Unit of the state of	Soma 2010		DPC	Global health	Nationwide	2008	2008 Medical treatment status	Ouality of care	Neoplasms		liver cancer		
Main													
Bin Margin Parkade and any source large of source large	Sato 2017		DPC		Nationwide	2010			Neoplasms		hepatocellular carcinoma (C220)		
Name Name Note	Sata 2010		DPC		Nationwido	2010			Neoplasms		Honotocollular carcinoma (ICD-10 codo C22)	0)	
Main <!--</td--><td>5810 2015</td><td></td><td>DIC</td><td></td><td>Nationwide</td><td>2010</td><td>2012 Intervention enect</td><td></td><td>Neopiasins</td><td></td><td>Trepatocentrial carcinonia (ICD-10 code C22)</td><td>0)</td><td></td>	5810 2015		DIC		Nationwide	2010	2012 Intervention enect		Neopiasins		Trepatocentrial carcinonia (ICD-10 code C22)	0)	
add with add with a with add with a with		matched-pair cohort study using a nationwide database											
Band Park Park Park Park Park Park Park Park	Akada 2019		MDV		Nationwide	2008	2017 Medical treatment status		Neoplasms		hepatocellular carcinoma (C220)		
Interview Interview <t< td=""><td>Eukuda 2020</td><td></td><td>NDR</td><td></td><td>Nationwido</td><td>2010</td><td>2019 Pasaarch mathadalady</td><td>Health aconomics</td><td>Nooplasms</td><td></td><td>Hapatacollular carcinoma</td><td>Othors</td><td>>20 years of ada</td></t<>	Eukuda 2020		NDR		Nationwido	2010	2019 Pasaarch mathadalady	Health aconomics	Nooplasms		Hapatacollular carcinoma	Othors	>20 years of ada
Matrix Autom Autom <t< td=""><td>1 0K008 2020</td><td></td><td>NDD</td><td></td><td>Nationwide</td><td>2010</td><td>2010 Research methodology</td><td>riealdi economics</td><td>Neopiasins</td><td></td><td>riepatocentrial carcinoma</td><td>outers</td><td>220 years of age</td></t<>	1 0K008 2020		NDD		Nationwide	2010	2010 Research methodology	riealdi economics	Neopiasins		riepatocentrial carcinoma	outers	220 years of age
Trans 2012 Realing black and a point problem should hole matchings PC Version 1 Version 1 Notable 1 <td>Sato 2012</td> <td></td> <td>DPC</td> <td></td> <td>Nationwide</td> <td>2007</td> <td>2008 Clinical epidemiology, course of</td> <td>Intervention effect</td> <td>Neoplasms</td> <td></td> <td>hepatocellular carcinoma (C220)</td> <td></td> <td></td>	Sato 2012		DPC		Nationwide	2007	2008 Clinical epidemiology, course of	Intervention effect	Neoplasms		hepatocellular carcinoma (C220)		
Image: Building and Products Control database Image: Products Control database Products Control database Products Control database Products Control database Products Contro databases Products Control database <													
Bioles Mainting Ministic Display Ministic Notion Display Display Ministic Mi	Yasunaga 2012		DPC		Nationwide	2007			Neoplasms		liver resection		
Gal Depine Testing Segund in Platest with Adjustic Lymphone frame Plates Both Segund Seg	Shinkawa 2018		DPC		Nationwide	2010			Neoplasms	Diseases of the genitourinary	hepatic resection in patients undergoing	Others	patients aged ≥20 years
Oll Lige Concert lighter Algebraic Mighter lighter Mighter Migh	-									system			
Mark 2000 The is a flex plane binding in going convert plane, without is going convertige con	Goto 2020		II MDV		Nationwide	2010	2017 Medical treatment status	Intervention effect	Neoplasms			CD- Others	as least 18 yeas of age
Find and part of and pa	Mori 2020		DPC		Nationwide	2014	2018 Intervention effect		Neoplasms				
proceder control Value				DPC data collected									
Unifying 2018 One floreous-cite Viscobian OPC Nationable 2019				,							treatment for a new primary (ICD codes: C34	\$)	
 n-nal cal lag cance: Propendig to specific diversion of the specific diversion of	Herebireese		DBC	Vision	Nationalda	2010	2015 Intervention offerst		Neerleene		anti-att with and and and had been all	Others	andudad astisate ortad
Adjusted themselession in the introduction of a diagonalic potential and patients of the introduction of a diagonalic poordare or only integrated in intraduction of the introduction of a diagonalic poordare or only integrated in intraduction of the introduction of a diagonalic poordare or only integrated in intraduction of the introduction of a diagonalic poordare or only integrated in intraduction of the introduction of a diagonalic poordare or only integrated in intraduction of the introduction of a diagonalic poordare or only integrated in intraduction of the introduction of a diagonalic poordare or only integrated in intraduction of the introduction of a diagonalic poordare or only integrated in intraduction of the introduction of a diagonalic poordare or only integrated in intraduction of the introduction of a diagonalic poordare or only integrated in intraduction of the introduction of a diagonalic poordare or only integrated in intraduction of the introduction of a diagonalic poordare or only integrated in intraduction of the introduction of a diagonalic poordare or only integrated in intraduction of the introduction of a diagonalic poordare or only integrated in intraduction of the introd	2018				Nationwide	2010	2015 Intervention effect		iveopiasms			J- Others	
2011 noterret Autome Texture Mix Manned ret study with use of antianal databases in junct of patients Mix Manned or Recurrent Num-mail Cell Lung Cancer I Marine Texture Mix Manned or Recurrent Num-mail Cell Lung Cancer I Marine Texture Mix Manned or Recurrent Num-mail Cell Lung Cancer I Marine Texture Mix Manned or Recurrent Num-mail Cell Lung Cancer I Marine Texture Mix Manned or Recurrent Num-mail Cell Lung Cancer I Marine Texture Mix Manned or Recurrent Num-mail Cell Lung Cancer I Marine Texture Mix Marine Or Recurrent Num-mail Cell Lung Cancer I Marine Texture Mix Marine Or Recurrent Num-mail Cell Lung Cancer I Marine Mix Marine Or Recurrent Num-mail Cell Lung Cancer I Marine Mix Marine Or Recurrent Num-mail Cell Lung Cancer I Marine Mix Marine Or Recurrent Num-mail Cell Lung Cancer I Marine Mix Marine Or Recurrent Num-mail Cell Lung Cancer I Marine Mix Marine Or Recurrent Num-mail Cell Lung Cancer I Marine Mix Mix Marine Or Recurrent Num-mail Cell Lung Cancer I Marine Mix Mix Marine Or Recurrent Num-mail Cell Lung Cancer I Marine Mix Mix Mix Marine Or Recurrent Num-mail Cell Lung Cancer I Marine Mix													
japa japa	Urushiyama		DPC		Nationwide	2010	2015 Intervention effect		Neoplasms		small cell lung cancer	Others	1 0
Ipar: A Ratrospective Hospital Administrative Databases Study Image: A Ratrospective Hospital Administrative Database Study	2017	node metastasis: a retrospective observational study with use of a national database in											≤17 years
Ipar: A Ratrospective Hospital Administrative Databases Study Image: A Ratrospective Hospital Administrative Database Study	Wang 2017	Systemic Treatment Patterns With Advanced or Recurrent Non-small Cell Lung Cancer in	MDV		Nationwide	2008	2015 Medical treatment status		Neoplasms		Non-small Cell Lung Cance	Others	age ≥18 vears
A prevence in lung cancer resection patients: An analysis using Japanese administrative data database Kundswa 201 Subschwall PC QP National de la fond patients Noto National de la fond patient database Noto National database Noto N											-		· ,
database database 0 QP National deligned inclusion y course of course privation y course of postoperative lung cancer patients (24) Non-small cell lung cancer patients (24) Kunisava 2012 Svirvial analysis procedure combination system for patient DP NRC National del dependiology, course of determine y cou	Sato 2017		DPC	QIP	Nationwide	2012	2015 Intervention effect		Neoplasms		lung cancer resection patients	Others	
Kunisawa 2014 Sunival analyses of postoperative lung cancer patients: an investigation using Japanese DPC QIP Nationwide 2008 2013 Clinical epidemiology, course of diseases Neoplasms Non-small cell lung cancer patients (G34) Kondo 2012 Evaluation of the inclustro or lung cancer in Japan DPC JRCMC Nationwide 92 2008 Least point of the inclustro or lung cancer in Japanes Initization of the inclustro or lung cancer in Japanes Initization of the inclustro or lung cancer in Japanes Initization of the inclustro or lung cancer in Japanes Initization of the inclustro or lung cancer in Japanes Initization of the inclustro or lung cancer in Japanes Initization of the inclustro or lung cancer in Japanes Initization of the inclustro or lung cancer in Japanes Initization of the inclustro or lung cancer in Japanes Initization Otake 2011 Impact of hospital volume on chest tube duration, length of stay, and mortality after DPC Nationwide 2007 2008 Healt policy evaluation and Neoplasms Neoplasms Non-small cell lung cancer patients (G34) Impact of hospital volume on chest tube duration, length of stay, and mortality after DPC Nationwide 2007 2008 Healt policy evaluation and Neoplasms Neoplasms Non-small cell lung cancer Impact of hospital volume o													<18 years
administrative data administrative data iseases Kande 2012 Evaluation of the introduction of a diagnosis procedure combination system for patient Japan NRC Nationwide 20 2008 Health policy evaluation and Neoplasm Injury, poisoning and certain of the fracture or lung cancer Valuation of the introduction of a diagnosis procedure combination system for patient with hip fracture or lung cancer in Japan Nationwide 2008 Health policy evaluation and Neoplasm Injury, poisoning and certain of the fracture or lung cancer Valuation of the introduction of a diagnosis procedure combination system for patient with hip fracture or lung cancer in Japan Nationwide 12 2008 Health policy evaluation and Neoplasm consequences of external causes Valuation of the introduction of size, so mortarity after Neoplasm Nationwide Valuation Valuation Neoplasm Consequences of external causes Valuation of the introduction of size, so mortarity after DPC Nationwide Valuation Neoplasm Neoplasm Neoplasms Neoplasms Valuation of the introduction on patient with hip fracture or lung cancer in Japan DPC Nationwide Valuation Neoplasm Neoplasms Neoplasms Neoplasms Neoplasms Neoplasms	Kunisawa 2014	,	DPC	OIP	Nationwide	2008	2013 Clinical epidemiology, course of		Neoplasms		Non-small cell lung cancer patients (C34)		
0 utcome and hospitalisation charges for patients with hip fracture or lung cancer in Japan Japanes utilization consequences of external causes 0 declar - - - - - 0 consequences of external causes - - - - 0 consequences of external causes - - - - 0 consequences of external causes - - - - 0 consequences of external causes - - - - - 0 consequences of external causes -													
 Part of hospital volume on chest tube duration, length of stay, and mortality after Made and community Nationwide State Coss Coss<td>Kondo 2012</td><td>o</td><td></td><td>JRCMC</td><td>Nationwide</td><td></td><td></td><td></td><td>Neoplasms</td><td></td><td>hip fracture or lung cancer</td><td></td><td></td>	Kondo 2012	o		JRCMC	Nationwide				Neoplasms		hip fracture or lung cancer		
Otake 2011 Impact of hospital volume on chest tube duration, length of stay, and mortality after DPC Nationwide 2007 2008 Health policy evaluation and Nacomash Impact of hospital volume on chest tube duration, length of stay, and mortality after DPC Nationwide 2007 2008 Health policy evaluation and Nacomash Impact of hospital volume on chest tube duration, length of stay, and mortality after PPC Nationwide 2007 2008 Health policy evaluation and Nacomash Impact of hospital volume on chest tube duration, length of stay, and mortality after PPC Nationwide 2007 2008 Health policy evaluation and Nacomash Impact of hospital volume on chest tube duration, length of stay, and mortality after PPC Nationwide 2007 2008 Health policy evaluation and Nacomash Impact of hospital volume on chest tube duration, length of stay, and mortality after PPC Nationwide PPC PP		outcome and hospitalisation charges for patients with hip fracture or lung cancer in Japan	n				utilization			consequences of external causes			
Madical Centes and commu- ity hospital Date 2011 Impact of hospital volume on chest tube duration, length of stay, and mortality after DPC Nationwide 2007 208 Health policy evaluation and Macing and Maci													
Otake 2011 Impact of hospital volume on chest tube duration, length of stay, and mortality after DPC Nationwide 2007 2008 Health policy evaluation and Neoplasms Iung concer													
Otake 2011 Impact of hospital volume on chest tube duration, length of stay, and mortality after DPC Nationwide 2007 2008 Health policy evaluation and Neoplasms lung cancer													
Otake 2011 Impact of hospital volume on chest tube duration, length of stay, and mortality after DPC Nationwide 2007 2008 Health policy evaluation and Nacolasms lung cancer													
Otake 2011 Impact of hospital volume on chest tube duration, length of stay, and mortality after DPC Nationwide 2007 2008 Health policy evaluation and Neoplasms lung cancer													
						s							
iobectomy utilization	Otake 2011		DPC		Nationwide	2007			Neoplasms		lung cancer		
		lobectomy					utilization						

physical therapy alone for patients undergoing lung cancer surgery: retrospective analysis	DPC		Nationwide		2010	2015 Intervention effect		Neoplasms		lung cancer	Others	aged 18 years or older
Comparative effectiveness study of chemotherapy in follicular lymphoma patients in the	MDV		Nationwide		2008	2017 Health economics	Medical treatment status	Neoplasms				
	locali in US	zing the model (Guzauskas et	Nationwide		2012	2018 Health economics		Neoplasms		follicular lymphoma	Others	at least 18-years-old of age
		13)	Nationwide		2008	2017 Medical treatment status	Health economics	Neoplasms		diffuse large B-cell lymphoma		
In-Hospital Complications After Surgery in Elderly Patients with Asymptomatic or Minor	DPC		Nationwide		2010			ect Neoplasms			Others	aged 18-90 years
	MDV		Nationwide		2016	2017 Medical treatment status		Neoplasms		multiple myeloma (ICD-10: C900)	Others	aged 20 years or older
	MDV		Nationwide		2008	2016 Medical treatment status	Health economics	Neoplasms		multiple myeloma (C90.0)		
Medical database analysis of japanese multiple myeloma patients with planned stem cell	MDV		Nationwide		2013	2016 Health economics		Neoplasms		multiple myeloma		
Treatment Patterns in Newly Diagnosed Multiple Myeloma Patients in Japan Using A	MDV		Nationwide		2008	2015 Medical treatment state	s	Neoplasms		Multiple Myeloma (ICD-10 code: C900)	Others	aged 18 years or older
Nomogram predicting severe adverse events after musculoskeletal tumor surgery:	DPC		Nationwide		2007	2012 Prediction model	Intervention effect	Neoplasms		musculoskeletal tumor		
Incidence and risk factors for pulmonary embolism after primary musculoskeletal tumor	DPC		Nationwide		2007	2010 Intervention effect		Neoplasms				
Impact of hospital volume on postoperative complications and in-hospital mortality after	DPC		Nationwide		2007	2010 Health policy evaluation and		Neoplasms		who underwent musculoskeletal tumor		
Treatment patterns in pancreatic cancer patients based on a hospital claims database in	MDV		Nationwide		2010	2018 Medical treatment status		Neoplasms		Pancreatic cancer (ICD-10: C250-253 and C25	7	
The impact of low body mass index on postoperative outcomes in pancreatectomy	DPC QIP		Nationwide		2010	2016 Clinical epidemiology, course of		Neoplasms		-259) pancreatic cancer	Others	excluded aged below 20
	DPC		Nationwide		2014	diseases 2016 Medical treatment status	Patient health service utilization	Neoplasms		pancreatic cancer (ICD10: C25)	Older persons	years age ≥65 years
death in pancreatic cancer cases based on DPC data] Complications and Postoperative Mortality Rate After Surgery for Pathological Femur	DPC		Nationwide		2007	2012 Intervention effect		Neoplasms	Diseases of the musculoskeletal	pathological femur fracture (ICD-10 code:		
Fracture Related to Bone Metastasis: Analysis of a Nationwide Database [Predictors of early mortality in femur metastasis patients with pathological fracture :	DPC		Nationwide		2007	2012 Clinical epidemiology, course of		Neoplasms	system and connective tissue Diseases of the musculoskeletal	M8445, C795) Pathological fracture, femur and pelvis (ICD-10)	
Analysis of DPC detabase] Predictive factors of the 30-day mortality after surgery for spinal metastasis: Analysis of	DPC		Nationwide		2010	diseases 2016 Prediction model	Clinical epidemiology, course of	Neoplasms	system and connective tissue Diseases of the musculoskeletal	code: M8445, C795) pathological spine fracture, bone metastasis		
a nationwide database The Diagnosis Procedure Combination based situation analysis of surgical intervention	DPC		Nationwide		2011	2012 Health policy evaluation and	diseases	Neoplasms	system and connective tissue	discharge cases of pituitary tumor		
for pituitary tumor in Japan Real-world, retrospective study evaluating thromboembolic events, associated risk	MDV		Nationwide		2008	utilization 2015 Clinical epidemiology, course of	Health economics	Neoplasms		Polycythemia vera	Others	aged ≥20 years
factors, and health-care resource utilization in Japanese patients with polycythemia vera $% \left({{{\mathbf{r}}_{i}}} \right)$						diseases						
Factors affecting in-hospital mortality and likelihood of undergoing surgical resection in patients with primary cardiac tumors	DPC		Nationwide		2010	2013 Clinical epidemiology, course of diseases		Neoplasms		primary cardiac tumors		
castration resistant prostate cancer patients from the Medical Data Vision claims	MDV		Nationwide		2003	2018 Clinical epidemiology, course of diseases		Neoplasms		prostate cancer		
The Economic Burden of Metastatic Castration Resistant Prostate Cancer and Skeletal			Others	13	2005	2016 Health economics		Neoplasms		metastatic castration resistant prostate cance	r	
name crite in spanice conversity response	(CISA conta electr appro) database: ins the onic records of ximately 2.5		y hospital s								
	MDV web-	based survey to	Nationwide		2008	2016 Health economics		Neoplasms		prostate cancer (ICD-10 code: C61)		
	intan											
prostatectomy												
Realities in cost-effectiveness analyses: a study of castration-resistant prostate cancer patients using a medical claims database	JMDC		Nationwide		2005	2013 Medical treatment status	Health economics	Neoplasms			Others	below 75 years old
	DBC		Nationwide		2012	2013 Intervention effect	Health economics	Neoplasms		the main diagnosis of malignant neoplasm of the prostate (ICD-10 code C61)		
Robot-assisted versus other types of radical prostatectomy: population-based safety and cost comparison in Japan, 2012-2013 $$	DFG											
			Nationwide		2008	2010 Intervention effect		Neoplasms		prostate cancer		
cost comparison in Japan, 2012-2013 Is mechanical bowel preparation in laparoscopic radical prostatectomy beneficial? An analysis of a Japanese national database Comparisons of perioperative outcomes and costs between open and laparoscopic radical prostatectomy, a propensity-score matching analysis based on the Japanese Diagnosis	DPC		Nationwide Nationwide		2008 2007	2010 Intervention effect 2010 Intervention effect	Health economics	Neoplasms Neoplasms		prostate cancer prostatectomy, prostate cancer		
cost comparison in Japan, 2012-2013 Is mechanical bowel preparation in laparoscopic radical prostatectomy beneficial? An analysis of a Japanese national database Comparisons of perioperative outcomes and costs between open and laparoscopic radical prostatectomy: a propensity-score matching analysis based on the Japanese Diagnosis Procedure Combination database Wide range and variation in minimally invasive surgery for renal malignancy in Japan: a	DPC DPC	Study Group					Health economics Socioeconomic comparison			· · · · · · · · · · · · · · · · · · ·		
cost comparison in Japan. 2012-2013 Is mechanical bowel preparation in laparoscopic radical prostatectomy beneficial? An analysis of a Japanese national database Comparisons of perioperative outcomes and costs between open and laparoscopic radical procedure Combination database Procedure Combination database Wide range and variation in minimally invasive surgery for renal malignancy in Japan: a population-based analysis	DPC DPC	Study Group	Nationwide		2007	2010 Intervention effect		Neoplasms		prostatectomy, prostate cancer		
	physical therapy alone for patients undergoing lung cancer surgery: retrospective analysis of a nationalde inpatient database Comparative effectiveness study of chemotherapy in follicular lymphoma patients in the rtusimab era: a Japanese claims database study Cost-effectiveness analysis of treatment regimens with obinutizumab plus chemotherapy in Japan for untreated follicular lymphoma patients in Japan Statabase analysis of treatment patterns, costs and survival of Japanese patients with diffuse large B-cell lymphoma in-hospital Complications Alter Surgery in Elderly Patients with Asymptomatic or Minor Symptom Meningmer. A Nationwide Registry Study (The Usage of Acetytsalicylic Acid for Lenalidomide Medication in Patients with Multiple Mydioma — Survey on Actual Condition of Clinical Data Using MDVAnalyzer—] Current treatment patterns and medical costs for multiple myeloma in Japan: a cross- sectional analysis of Japanese multiple myeloma patients with planed term cell transplantation (MEDALIST) - a focus on healthcare resource utilization and cost Treatment Patterns in Newly Diagnosed Multiple Myeloma Patients in Japan Using A Large-calle Claims Database. Retrospective Cohort Study Nonongam predicting severa adverse events after musculoskeletal tumor surgery: analysis of a national administrative database Incidence and risk factors for pulmonary embolism after primary musculoskeletal tumor surgery Impact of hospital volume on postoperative complications and in-hospital mortality after musculoskeletal tumor surgery; analysis of Japanese administrative database I repatients: a retrospective analysis of Japanese administrative database I repatients are parceratic cancer as based on DPC databases in pane- ratement patterns in pancreatic cancer patients based on a hospital claims database in Japan I melayood to boody mass index on postoperative outcomes in punc	physical therapy alone for patients undergoing lung cancer surgery: retrospective analysis MDV Comparative effectiveness study of chemotherapy in follicular lymphoma patients in the information are a Japanese claims database study MDV Cost-effectiveness analysis of treatment regimens with obinutzurumab plus chemotherapy Others MOV, local Nationwide claims database analysis of treatment patterns, costs and survival of panese patients with diffue large B-cell lymphoma MDV Japanese patients In-Hospital Complications After Surgery in Elserly Patients with Asymptomatic or Minor Symptom Meningmes. A Nationwide Registry Study MDV MDV Current treatment patterns and medical costs for multiple myeloma in Japan: a cross-sectional analysis of a health insurace claims database MDV Large-claims Database: Retrospective Cohort Study MDV Nonorgam peedicing severe adverse events after mesculoskeletal tumor surgery: analysis of a nationistrative database MDV Large-claims Database: Retrospective Cohort Study DPC Incidence and Kis factors for pulmonary embolism after primary musculoskeletal tumor surgery: analysis of a panese multiple myeloma in Japan: a cross and the cost on althone musculoskeletal tumor surgery: analysis of a national administrative database MDV Incidence and risk factors for pulmonary embolism after primary musculoskeletal tumor surgery: analysis of a national administrative database MDV Incidence and tow	physical therapy alone for patients and ergoing lung cancer surgery: retrospective analysis comparative effectiveness study of chemotherapy in folloular lymphoma patients in the maximum era: a Japanese daims database study Cost-effectiveness analysis of treatment regimens with chinuturumab plus chemotherapy Dest-effectiveness analysis of treatment regimens with chinuturumab plus chemotherapy Dest-effectiveness analysis of treatment regimens with chinuturumab plus chemotherapy Dest-effectiveness analysis of treatment patterns, costs and survival of Japanese patients with diffue large B-cell ymphoma In-toppiat Comparison After Surgery in Ederly Patients with Asymptomatic or Miner Symptom Meningions: A hationxide Registry Study. The Usage of Acetylsalicylic Acid for Lenaldomide Medication in Patients with Multiple MDV Myelium =-Survivo Actual Condition of Clinical Data Ling MDVAnalyzer	physical therapy alone for patients undergoing lung cancer surgery: retrospective analysis of a nationoide instanter database of a nationoide instanter database study. Costs-effectiveness analysis of trastment regimers with obinutzurnab plus chemotherapy Others in Japan for untreated follicular lymphoma patients in Japan for untreated follicular lymphoma patients in US (Guzzarakes et al. 2019) Nationnide database analysis of trastment regimers with obinutzurnab plus chemotherapy (Dhers) Nationnide claims database analysis of trastment regimers with obinutzurnab plus chemotherapy (Dhers) Nationnide claims database analysis of trastment patterns, costs and survival of Apanese patients with diffuse large B-cell by Patients with Autoplus (Dhers) (Dhers) Nationnide Symptom Meningianes. A Nationnide Registry Study (Dhers) (Dhers) Current treatment patterns and medical costs for multiple myeloma in Japan: a cross. MDV Nationnide database analysis of papanese multiple myeloma patients with Japan Star Cost (Dhers) (Dhers) Nationnide databases analysis of papanese multiple myeloma patients with Japan Star Cost (Dhers) Current treatment patterns and medical costs for multiple myeloma patients in Japan Star Cost (Dhers) Nationnide databases analysis of papanese multiple myeloma patients in Japan Star Cost (Dhers) Nationnide Nation	physical heavy alone for gatents undergoing lung cancer surgery: retrospective analysis of a national inputter database Comparative effectiveness analysis of treatment regimens with obinducaruma by lus cheenstherary in Japan for untraated folicular lymphona patients in Japan for untraated folicular lymphona patients in Japan so untraated folicular lymphona patients in US (cancer late analysis) of treatment patients with Auryntzmatic or Minor In Hospital Complications After Canadisonad Medication in Patients with Auryntzmatic or Minor In Hospital Complications After investige analysis of treatment patients with Auryntzmatic or Minor In Hospital of Actual Condition of Cincins Delating MoNanayzer—1 Correct treatment patterns and medical costs for multige mydons in Japans a cross sectional analysis of a hastith insurance calends database Molecul database analysis of a hastith insurance calends database Molecul database analysis of a hastith insurance calends database Molecul database and the fore patients with planned tance or II MOV reansement Patients and medical costs for multige mydons a patients with planned tance or II MOV reansement Patients and the medical costs for multige mydons a patients with planned tance or II MOV reansement patients in theore calculates and the nospital database Molecul database and the treatment and multidatabase Molecul database and the medical costs for patients with planned tance or II MOV reansement patients in parceased cancer were basted on a hospital database in MOV Readom database reastering a parcease subset on DPC basters reastering a national administrative database In Company medical costs f	a hastiowek operate database comparate effectiveness analysis of reatment regimers with beinturume bp is chemotherapy in a logan for untrasted fibular lymphone patients in an in apare or untrasted fibular lymphone patients in apare or untrasted fibular lymphone patients in apare or untrasted fibular lymphone patients in use of trastement patients and the statuses analysis of trastement patients, costs and survival of in apare or untrasted fibular lymphone patients in use of trastement patients in the statuses analysis of trastement patients, costs and survival of in the statuses analysis of trastement patients, costs and survival of in the statuses analysis of trastement patients, costs and survival of in the statuses analysis of trastement patients, that ymphone and the statuses without a statuse of trastement patients with any statuses sectional transplications. After Surgery in Etery Patients with Margines material complications. After Surgery in Etery Patients with any statuses sectional transplication in the statuses MDV Nonex Surgery Nonex Control (Sincial Data Lalge Montrol Sincial Data Lalge Montrol Montrol Sincial Data Lalge Montrol Sincial Data Lalge Montrol Montrol Sincial Data Lalge Montrol Montrol Sincial Data Lal	physical floating in particing space analysis of example and particing in the field angle and participation in the field and participation in the field angle and participation in the field and participatin the field and participation in the field and partici			Note: Solution: S		Note with the set of the second of the seco

	Sugihara 2014	Performance comparisons in major uro-oncological surgeries between the USA and Japa	in DPC		Nationwide	USA and 200	09	2011 Medical treatment status	Socioeconomic comparison	Neoplasms		uro-oncological surgeries		
Name						Japan		AAAB 11 11 11 11 11 11 11						
Normal and any data data data data data data data dat	Yasunaga 2010		r DPC		Nationwide	200	06			Neoplasms		nephrectomy or nephroureterectomy		
Network statute statut	anemura 020		DPC	HBCR+DPC	Nationwide	201	12	2014 Medical treatment status		Neoplasms		Thymic epithelial tumors		
Image Image <th< td=""><td>Konishi 2020</td><td></td><td></td><td></td><td>Nationwide</td><td>201</td><td>10</td><td>2017 Intervention effect</td><td></td><td>Neoplasms</td><td></td><td></td><td></td><td></td></th<>	Konishi 2020				Nationwide	201	10	2017 Intervention effect		Neoplasms				
Markam Control Control <th< td=""><td>Mizuno 2019</td><td></td><td>MDV</td><td></td><td>Nationwide</td><td>201</td><td>14</td><td>2017 Intervention effect</td><td></td><td>Neoplasms</td><td></td><td>patients who underwent thyroid cancer surgery</td><td>Others</td><td>age ≥20 years</td></th<>	Mizuno 2019		MDV		Nationwide	201	14	2017 Intervention effect		Neoplasms		patients who underwent thyroid cancer surgery	Others	age ≥20 years
Index distribution Index d	Mizuno 2020	Outcomes in patients diagnosed with tongue cancer before and after the age of 45 years	5 MDV		Nationwide	200	08			Neoplasms			Others	patients aged ≥20 yea
	Sugihara 2014		DPC		Nationwide	200	07	2012 Medical treatment status		Neoplasms		urothelial carcinoma		
		with endometrial cancer in Japan	MDV					diseases	Medical treatment status	Neoplasms		endometrial and uterine cancers (C541, C549)		
Name 24 weight of a start set in s	Muramatsu 2013	Description of Treatment of Uterus Cancer Based on the Japanese DPC Database	DPC		Nationwide	201	10	2010 Medical treatment status		Neoplasms		uterus cancer		
 	3) Diseases of t													
	Kamesaki 2020		s MDV		Nationwide	200	08		Medical treatment status			Cold agglutinin disease	Others	aged \geq 18 years
NUM Object Statute Statute Data Data <td>2020</td> <td>with cold agglutnin disease in Japan</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>01569262</td> <td></td> <td>disorders involving the immune</td> <td></td> <td></td> <td></td> <td></td>	2020	with cold agglutnin disease in Japan						01569262		disorders involving the immune				
Number of the stand	Ohbe 2020	Underlying Disorders, Clinical Phenotypes, and Treatment Diversity among Patients with	DPC		Nationwide	201	10	2018 Clinical epidemiology, course of			Pregnancy, childbirth and the	disseminated intravascular coagulation	Others	excluded patients who
Name Name <th< td=""><td></td><td>Disseminated Intravascular Coagulation</td><td></td><td></td><td></td><td></td><td></td><td>diseases</td><td></td><td></td><td>puerperium</td><td>(ICD10codes: D64, O450, O460, O723, O081)</td><td></td><td>were younger tha 18</td></th<>		Disseminated Intravascular Coagulation						diseases			puerperium	(ICD10codes: D64, O450, O460, O723, O081)		were younger tha 18
pipeling 2000 Bioleneity and encoding papeling leader with a large of														years of age
Normalization National State in the State i	Taniguchi 2020	Antithrombin use and mortality in patients with stage IV solid tumor-associated	DPC		Nationwide	201	10	2018 Intervention effect			Neoplasms	disseminated intravascular coagulation		
Markam Markam<		disseminated intravascular coagulation: a nationwide observational study in Japan										(admitted with the stage IV soild tumors)		
main main <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>														
9 Subjective Atteinance Building Legence of a test basic and part legen	/amakawa	Time Trends of the Outcomes and Treatment Options for Disseminated Intravascular	DPC		Nationwide	201	10	2018 Clinical epidemiology, course of			Pregnancy, childbirth and the	patients with disseminated intravascular	Others	excluded patients who
Instrume Instrum Instrume Instrume														were younger than 18
Name 2019 Decompose Antipuos dicklessal degrating rouge antipuos dicklessal dependent												0723, 0081)		years of age
ispansion analysis ispansion	1.1		000	DDODI	Martin Adv	001	1.4	0010 M. F. J.			A	Provide the second second second	01111	0
Part of the second s	ICHIKAWA 2019		I DPC	DPCRI	Nationwide	201	14	2016 Medical treatment status					Children	0 years old
na 2019 Teleficial de la forma a lubel de fondance de la montante a lubel de montante														
pattern with stammated international or complexition learning of the statute of the stat														
adata adata <th< td=""><td>Murata 2017</td><td></td><td></td><td></td><td>Nationwide</td><td>201</td><td>10</td><td>2012 Intervention effect</td><td></td><td></td><td></td><td>disseminated intravascular coagulation</td><td></td><td></td></th<>	Murata 2017				Nationwide	201	10	2012 Intervention effect				disseminated intravascular coagulation		
Number of the state and in-togetist durating of														
In Jages: An Observational Study of Nationwide Hospital Claims Database Provide Series forming organs and cartain discosters priorital perior Organization														
Barden Barden<			DPC		Nationwide	201	14	1 001			0 0		Children	neonates
University Univers		in Japan: An Observational Study of a Nationwide Hospital Claims Database						diseases		0 0	perinatal period	Coagulation		
be 2013 Descended later with Activity for Intervention affect inte														
gam 2015 Specific monologing the impact induced in threads and the specific monologing the impact induced in threads and threads			d DPC		Nationwide	201	10	2017 Intervention effect			Injury, poisoning and certain other	heatstroke-induced disseminated intravascular	Others	aged ≥19 years
v = v = v = v = v = v = v = v = v = v =		Disseminated Intravascular Coagulation: A Nationwide Observational Study									consequences of external causes	coagulation		
gam Use of recombinent human soluble thromosondulin ng tatient with seguis-induced descentiated intravascular coagulation after intestinal perforation descentiated intravascular coagulation after intestinal perforation DPC Nationwide 2010 2013 Intervention effect Diseases of the blood mblood- forming organs and critinin disorders involving the immune mechanism Diseases of the disord mblood- mechanism Diseases of the disord mblood- forming organs and critinin disorders involving the immune mechanism Diseases of the disord mblood- mechanism Diseases of the disord mblood- mechanism Diseases of the disord mblood- forming organs and critinin disorders involving the immune mechanism Diseases of the disord mblood- mechanism Diseases of the blood and blood- mechanism Diseases of the treaspiratory system mechanism Diseases of the respiratory system mechanism Diseases of the mechanis														
A significant site site site site site site site sit	Tagami 2015	Use of recombinant human soluble thrombomodulin in patients with sepsis-induced	DPC		Nationwide	201	10	2013 Intervention effect			Diseases of the digestive system	sepsis-induced disseminated intravascular	Others	≥15 years of age
gene provide in specific after addominal segsing PPC National descent and segsing 2010 2013 Intervention effect Bases of the blood and blood in addition provide station provide sta	-									forming organs and certain				
gan 2015 Supplemental dose of antithombin use in disseminated intravascular coagulation patients of the abdominal sepsis of the blood and blood- forming organs and certain disseminated intravascular coagulation: an observational antionwide study of the sepsi-associated disseminated intravascular coagulation: an observational antionwide study of the sepsi-associated disseminated intravascular coagulation: an observational antionwide study of the sepsi-associated disseminated intravascular coagulation: an observational and sepsis-associated disseminated intravascular coagulation: an observational antionwide study of the sepsi-associated disseminated intravascular coagulation: an observational and sepsis-associated disseminated intravascular coagulation: an observational antionwide study of the sepsi-associated disseminated intravascular coagulation in a disorder involving the immune mechanism of the sepsis-associated disseminated intravascular coagulation in a disorder involving the immune mechanism of the sepsis-associated disseminated intravascular coagulation in a disorder involving the immune mechanism of the sepsis-associated disseminated intravascular coagulation in a disorder involving the immune mechanism of the sepsis-associated disseminated intravascular coagulation in a disorder involving the immune mechanism of the sepsis-associated disseminated intravascular coagulation in a disorder involving the immune mechanism of the sepsis-associated disseminated intravascular coagulation in a disorder involving the immune mechanism of the sepsis of the sepsis and disseminated intravascular coagulation in a disorder involving the immune mechanism disorder inv														
painers after abdominal sepsis promotioners free abdominal sepsis painers after abdominal se	Tadami 2015	Supplemental does of antithrembin use in discominated intravascular consulation	DPC		Nationwido	201	10	2012 Intervention offect			Dispassos of the distortive system	discominated intravansular coastulation patients	n Othorn	ado >15 years
services in services in the service	1 againi 2013		DIC		NationWide	201	10	2013 Intervention effect			Diseases of the digestive system		s others	age 215 years
gam 2015 Recombinant human soluble thrombomodulin and mortality in severe pneumonia patients UPC Nationwide to the special sascolated disaminated intravascular coagulation: an observational aptients with sepsis-associated of the special sascolated disaminated intravascular coagulation: an observational aptients with sepsis-associated of the special sascolated disaminated intravascular coagulation: an observational patients with sepsis-associated of the special sascolated disaminated intravascular coagulation: an observational patients with sepsis-associated of the special sascolated disaminated intravascular coagulation: an observational patients with sepsis-associated of the special second patients with sepsis-associated disaminated intravascular coagulation: an observational patients with sepsis-associated of the special second patients with second patients with sepsis-associated patients with second patients with secon														
wite speis-associated disseminated intravascular cogulation: an observational introve speid of spein interve speid of spein introve spein														
nationwide study nation	Tagami 2015		ts DPC		Nationwide	201	10	2013 Intervention effect			Diseases of the respiratory system		Others	aged ≥18 years
gam 201 Antithrombin and mortality in severe presentand mortali												Disseminated intravascular coagulation		
disseminated intravascular coagulation: an observational nationwide study indiced Disseminated intravascular coagulation indiced Disseminated Intravascular										mechanism				
and Disseminated Intravascular Cosquitation in Administrative Data DPC NH0, laboratory data Others 013 014 Research methodology Desame of the immune immuno of the immune immune immuno of the immune immuno of the immune immuno of the immune immu	Tagami 2014		DPC		Nationwide	201	10	2013 Intervention effect			Diseases of the respiratory system			aged ≥18 years
mana 2016 Comparison of Procedure-Based and Diagnosis-Based Identifications of Severe Sepsis and Comparison of Procedure-Based and Diagnosis-Based Identifications of Severe Sepsis and Comparison of Procedure-Based and Diagnosis-Based Identifications of Severe Sepsis and Comparison of Procedure-Based and Diagnosis-Based Identifications of Severe Sepsis and Comparisons Severe Sepsis and Comparisons Determine of Cartain infectious and parasitic severe Sepsis and disseminated intravascular Coagulation in Administrative Data as a reference hospital is a reference hospital is as a reference hospital is a reference hospital is as a reference hospital is a reference hospital is as a reference hospital is a reference hospital		disseminated intravascular coagulation: an observational nationwide study								disorders involving the immune		induced Disseminated intravascular coagulation	n	
and Disseminated Intravascular Coagulation in Administrative Data as a reference hospital	Yamana 2016	Comparison of Procedure-Based and Diagnosis-Based Identifications of Severe Service	DPC	NHO, laboratory da	ata Others	three 201	13	2014 Research methodology		meenamon	Certain infectious and paresitic	severe sensis and disseminated intravascular	Others	aged >18 years
s disorders involving the immune mechanism toto 2018 Recent trends in practice patterns and comparisons between immunoglobulin and DPC Nationwide 2010 2015 Medical treatment status Health economics Diseases of the load blood- corticosteroid in pediatric immune thrombocytopenia Children aged between 3 m forming organs and certain (ICD-10 code, D69.3) and 18 years disorders involving the immune			51.5										541015	2900 CT0 30010
ubo 2018 Recent trends in practice patterns and comparisons between immunoglobulin and DPC Nationwide 2010 2015 Medical treatment status Health economics Diseases of the blood and blood- corticosterioli in pediatric immune thrombocytopenia Children aged between 3 m forming organs and certain (ICD-10 code, D69.3) and 18 years disorders involving the immune						s				disorders involving the immune				
corticosteroid in pediatric immune thrombocytopenia forming organs and certain (ICD-10 code, D69.3) and 18 years disorders involving the immune													AL	
disorders involving the immune			DPC		Nationwide	201	10	2015 Medical treatment status	Health economics				Children	
		concourses on periodic minune chomocytopenia										(100 10 0008, 003.0)		anu zo yeldi S
										mechanism				

Wong 2021	Management of primary immune thrombocytopenia in a real-world setting in Japan: eltrombopag versus corticosteroids	MDV		Nationwide		2010	2018 Intervention effect		Diseases of the blood and blood- forming organs and certain		immune thrombocytopenia	Others	aged \geq 20 years
	enromoupag versus controusteroius								disorders involving the immune				
									mechanism				
	nutritional and metabolic diseases (E00-E90)												
Matsubayashi 2020	Prevalence, incidence, comorbidities, and treatment patterns among Japanese patients with acromegaly: a descriptive study using a nationwide claims database	NDB		Nationwide		2012	2018 Clinical epidemiology, course of diseases	Medical treatment status	Endocrine, nutritional and metabolic diseases		acromegary	Others	≥20 years of age
		Others	data from a claims	Nationwide	145	2003	2014 Clinical epidemiology, course of		Endocrine, nutritional and		Chronic adrenal insufficiency, adrenal crisis	Others	age ≥18 years
	patients with adrenal crisis: A nationwide cohort study		database		acute		diseases		metabolic diseases				· · ·
					phase								
					hospital								
					s across Japan								
Iwasaku 2017	Clinical characteristics of adrenal crisis in adult population with and without predisposing	MDV		Nationwide		2003	2014 Clinical epidemiology, course of		Endocrine, nutritional and		Adrenal crisis	Others	age ≥18 years
	chronic adrenal insufficiency: a retrospective cohort study						diseases		metabolic diseases				
Nakamura 2015	[Geographical distribution of primary care clinics for elderly ambulatory diabetic patients in Ibaraki Prefecture]	NHI/LSEHS	insurance claims database (latter-	Prefecture	Ibaraki	2010	2010 Health policy evaluation and utilization		Endocrine, nutritional and metabolic diseases		diabetes	Older persons	aged 75 years and old
2015	in balan i relecturej		stage elderly				dtilization		metabolic diseases				
			healthcare system										
Horii 2021			data)										
Horii 2021	On-label use of sodium-glucose cotransporter 2 inhibitors might increase the risk of diabetic ketoacidosis in patients with type 1 diabetes	MDV		Nationwide		2018	2019 Intervention effect		Endocrine, nutritional and metabolic diseases		type 1 diabetes		
Ikesu 2021	Trends in Diabetes Care during the COVID-19 Outbreak in Japan: an Observational Study	MDV		Nationwide		2019	2020 Medical treatment status	COVID-19	Endocrine, nutritional and		diabetes		
									metabolic diseases				
Kaneko 2021		JMDC		Nationwide		2008	2016 Clinical epidemiology, course of		Endocrine, nutritional and		diabetes, amputation	Others	aged 18–72 years
Karaha 2021	study using a nationwide claims database A Japanese Study Assessing Glycemic Control with Use of IDegAsp Co-formulation in	MDV		Nationwide		2018	diseases 2018 Intervention effect		metabolic diseases Endocrine, nutritional and		type 2 diabetes	Others	≥18 years of age
Kalleko 2021	Patients with Type 2 Diabetes in Clinical Practice: The JAGUAR Study	NDV		Nationwide		2010	2018 Intervention enect		metabolic diseases		type z diabetes	Others	210 years of age
Kohsaka 2021		MDV		Nationwide		2014	2018 Health economics		Endocrine, nutritional and		type 2 diabetes	Others	aged 18 years or older
	inhibitors versus dipeptidyl peptidase-4 inhibitors or other glucose-lowering drugs in								metabolic diseases				
K	Japanese patients with type 2 diabetes	MDV		Nationwide		2014	2010 1.1		Participation and Advantage	Others	Palata harden andre statut	Others	
Komuro 2021	Lower heart failure and chronic kidney disease risks associated with sodium-glucose cotransporter-2 inhibitor use in Japanese type 2 diabetes patients without established	MDV		Nationwide		2014	2018 Intervention effect		Endocrine, nutritional and metabolic diseases	Others	diabetes, heat failure, chronic kidney disase	Others	aged ≥18 years
	cardiovascular and renal diseases												
Iketani 2021		JMDC		Nationwide		2018	2019 Medical treatment status		Endocrine, nutritional and		Type 2 Diabetes	Others	≥18 years of age
	Pharmaceutical Management in Health Insurance] Pharmacies:Quantitative Evaluation								metabolic diseases				
Harada 2020	Using Administrative Claims Data Association of treatment-achieved HbA1c with incidence of coronary artery disease and	IMDC		Nationwide		2008	2016 Clinical epidemiology, course of	Intervention effect	Endocrine, nutritional and	Others	coronary artery disease and severe eye disease	Others	18-72 years old
	severe eye disease in diabetes patients						diseases		metabolic diseases		in diabetes patients		
Ihana-	Comparison of effectiveness and drug cost between dipeptidyl peptidase-4 inhibitor and	JMDC		Nationwide		2010	2016 Intervention effect	Health economics	Endocrine, nutritional and		type 2 diabetes	Others	20-69 years old
Sugiyama 202	0 biguanide as the first-line anti-hyperglycaemic medication among Japanese working generation with type 2 diabetes								metabolic diseases				
Jiang 2020	generation with type 2 diabetes Health Inequalities Among Elderly Type 2 Diabetes Mellitus Patients in Japan	NHI/LSEHS	Fukuoka Prefecture	Prefecture	Fukuoka	2013	2016 Patient health service utilization	Socioeconomic comparison	Endocrine, nutritional and		type 2 diabetes	Older persons	≥75 years of age
			Wide-Area						metabolic diseases				, ,
			Association of Latter	-									
			Stage Elderly										
Kameda 2020	Use of oral antidiabetic drugs in Japanese working-age patients with type 2 diabetes	JMDC	Healthcare	Nationwide		2014	2017 Medical treatment status		Endocrine, nutritional and		type 2 diabetes	Others	≥30 years of age
	mellitus: dosing pattern for metformin initiators								metabolic diseases)
Kawaguchi		NHI/LSEHS	NHI	Municipality	Kure	2010	2013 Health economics		Endocrine, nutritional and		diabetic nephropathy		
2020	Evidence from a three-period difference-in-differences analysis Recent Epidemiological Status of Ocular and Other Major Complications Related to	IMDC			city	2005			metabolic diseases				
Kume 2020	Recent Epidemiological Status of Ocular and Other Major Complications Related to Diabetes Mellitus in Japan	IMDC		Nationwide		2005	2014 Clinical epidemiology, course of diseases		Endocrine, nutritional and metabolic diseases		diabetes		
Kume 2020	Systemic and ocular diseases associated with the development of diabetic macular	JMDC		Nationwide		2005	2014 Clinical epidemiology, course of		Endocrine, nutritional and		diabetic macular edema		
	edema among Japanese patients with diabetes mellitus						diseases		metabolic diseases				
Suzuki 2020	[Medical cost analysis for diabetes and complications in municipalities in Miyagi	NHI/LSEHS	NHI	Municipality	Tomiya	2016	2016 Clinical epidemiology, course of	Health economics	Endocrine, nutritional and		diabetes		
	Prefecture]*				city, Miyagi		diseases		metabolic diseases				
Horii 2019	Determination of factors affecting medication adherence in type 2 diabetes mellitus	JMDC		Nationwide	wiyagi	2005	2013 Patient health service utilization		Endocrine, nutritional and		type 2 diabetes	Others	18-74 years old
	patients using a nationwide claim-based database in Japan								metabolic diseases				-
Ito 2019	8	Others	MDV, JMDC, Kyowa	Nationwide		2014	2017 Medical treatment status		Endocrine, nutritional and		diabetes initiating SGLT2 inihibitors	Others	≥18 years of age
	Inhibitors (SGLT2i): Real-World Results from Three Administrative Databases in Japan		Kikaku Ltd. Medi- Trend						metabolic diseases				
Ito 2019	Drug Utilization Patterns in Patients with Diabetes Initiating Sodium Glucose Co-	Others	MDV, JMDC, Kyowa	Nationwide		2014	2017 Medical treatment status		Endocrine, nutritional and		diabetes	Others	≥18 years of age
	Transporter-2 Inhibitors (SGLT2i) in Japan: A Multi-Database Study (2014-2017)		Kikaku Ltd. Medi-						metabolic diseases				
			Trend										
Ito 2019	Real-World Effectiveness of Sodium Glucose Co-Transporter-2 Inhibitors in Japanese Patients with Diabetes Mellitus	Others	MDV, JMDC	Nationwide		2014	2016 Intervention effect		Endocrine, nutritional and metabolic diseases		diabetes	Others	≥18 years of age
		IMDC		Nationwide		2005	2015 Clinical epidemiology, course of	Medical treatment status	Endocrine, nutritional and		type 2 diabetes	Others	≥40 years of age
Kanai 2019	Characteristics and Early Hypoglycemic Medications of Patients at Risk of Progression to						diseases		metabolic diseases				.,
Kanai 2019	Characteristics and Early Hypoglycemic Medications of Patients at Risk of Progression to Type 2 Diabetes in Japan: A Retrospective Cohort Study of Health Checkup and Claims	1000											
	Type 2 Diabetes in Japan: A Retrospective Cohort Study of Health Checkup and Claims Data												
Kanai 2019 Gouda 2018	Type 2 Diabetes in Japan: A Retrospective Cohort Study of Health Checkup and Claims Data Associations between eating habits and glycemic control and obesity in Japanese	JMDC		Nationwide		2009	2015 Clinical epidemiology, course of		Endocrine, nutritional and		diabetes		
Gouda 2018	Type 2 Diabetes in Japan: A Retrospective Cohort Study of Health Checkup and Claims Data Associations between eating habits and glycemic control and obesity in Japanese workers with type 2 diabetes mellitus						diseases		metabolic diseases				
	Type 2 Diabetes in Japan: A Retrospective Cohort Study of Health Checkup and Claims Data Associations between eating habits and glycemic control and obesity in Japanese workers with type 2 diabetes mellitus	JMDC		Nationwide Nationwide		2009 2013					diabetes type 2 diabetes		
Gouda 2018 Ishii 2018	Type 2 Diabetes in Japan: A Retrospective Cohort Study of Health Checkup and Claims Data Associations between eating habits and glycemic control and obesity in Japanese workers with type 2 diabetes mellitus Comparative analysis between sodium-glucose Co-transporter 2 inhibitors and biguanides as add-on medications in patients with type 2 diabetes mellitus receiving dispetidy peptidase 4 inhibitors-results from analysis of real-world clinical database	JMDC MDV		Nationwide		2013	diseases 2017 Intervention effect		metabolic diseases Endocrine, nutritional and metabolic diseases		type 2 diabetes		
Gouda 2018 Ishii 2018	Type 2 Diabetes in Japan: A Retrospective Cohort Study of Health Checkup and Claims Data Associations between eating habits and glycemic control and obesity in Japanese workers with type 2 diabetes mellitus Comparative analysis between sodium-glucose Co-transporter 2 inhibitors and bigunides as ad-on medications in patients with type 2 diabetes mellitus receiving	JMDC	Taiwan, Hong Kong, Japan, US	Nationwide			diseases	Socioeconomic comparison	metabolic diseases Endocrine, nutritional and				

bata-Kogure 017	Clinical and economic burdens experienced by patients with painful diabetic peripheral neuropathy: An observational study using a Japanese claims database	MDV		Nationwide		2008	2015 Clinical epidemiology, course of diseases	Health economics	Endocrine, nutritional and metabolic diseases	diabetic peripheral neuropathy	Others	≥18 years of age
ng 2016	Epidemiology of lactic acidosis in type 2 diabetes patients with metformin in Japan	MDV		Nationwide		2010	2014 Intervention effect		Endocrine, nutritional and metabolic diseases	type 2 diabetes	Others	≥18 years of age
ıda 2016	The Effects of Diagnostic Definitions in Claims Data on Healthcare Cost Estimates:	JMDC		Nationwide		2005	2013 Health economics	Medical treatment status	Endocrine, nutritional and	type 2 diabetes	Others	≥20 years of ag
	Evidence from a Large-Scale Panel Data Analysis of Diabetes Care in Japan								metabolic diseases			
/ka 2016	Adherence to dipeptidyl peptidase-4 inhibitor therapy among type 2 diabetes patients with employer-sponsored health insurance in Japan	JMDC		Nationwide		2010	2013 Patient health service utilization		Endocrine, nutritional and metabolic diseases	type 2 diabetes	Others	18-65 years old
nza 2014		s JMDC		Nationwide		2009	2010 Medical treatment status	Intervention effect	Endocrine, nutritional and	diabetes		
	untreated among individuals with newly screening-detected diabetes in Japan								metabolic diseases			
ka 2014	[Prescription and Quality of Diabetes Care Provided by Specialists and General	Others	SANYO Electric	Others	SANYO	2012	2012 Medical treatment status	Health policy evaluation and	Endocrine, nutritional and	diabetes	Others	0-74 years old
	Physicians in Japan —An Analysis of Insurance Claim and Health Checkup Data—]		Group Health		Electric			utilization	metabolic diseases			(beneficiaries)
			Insurance		Group Health							
					Insuranc							
					е							
uki 2014	[Examination of prescription status of new antidiabetic drugs using health insurance claims data]*	JMDC		Nationwide		2005	2012 Medical treatment status		Endocrine, nutritional and metabolic diseases	diabetes	Others	20-75 years old
ura 2012	Quantitative Evaluation of Compliance with Recommendation for Sulfonylurea Dose Co-	Others	Nihon-Chouzai	Nationwide	Nihon-	2008	2010 Medical treatment status	Health policy evaluation and	Endocrine, nutritional and	diabetes		
	Administered with DPP-4 Inhibitors in Japan		pharmacy claims		Chouzai			utilization	metabolic diseases			
			database		pharmac y claims							
					databas							
					е							
o 2011	Prevalence of type 2 diabetes among acute inpatients and its impact on length of hospital stay in Japan	DPC		Nationwide		2008	2008 Clinical epidemiology, course of diseases		Endocrine, nutritional and metabolic diseases	type 2 diabetes		
ase 2011	[Utility Study of a Basic Database Collected from Patients with Diabetes Mellitus in 15	MDV	Patient Survey 2008	Nationwide	15	2006	2010 Research methodology		Endocrine, nutritional and	diabetes		
	Hospitals by Retrospective Analysis]		(MHLW)		medical				metabolic diseases			
azato 2010	[A Method of Investigate Medical Expenditure in Japan in Relationship of Stage	JMDC		Nationwide	facilities 10	2003	2007 Research methodology		Endocrine, nutritional and	type 2 diabetes	Others	40-74 years old
	Progression of Type 2 Diabetes Mellitus Complications and Macroangiopathy]				health				metabolic diseases			<i>.</i>
					insuranc							
ai 2021	A Claims Database Analysis of Dose-Dependency of Metformin and Incidence of Lactic	MDV		Nationwide	e unions	2008	2018 Intervention effect		Endocrine, nutritional and	Type 2 diabetes	Others	age ≥18 years
	Acidosis in Japanese Patients with Type 2 Diabetes								metabolic diseases			
ai 2021	Effects of Increasing Metformin Dose vs Adding/Switching to Dipeptidyl Peptidase-4	MDV		Nationwide		2008	2018 Intervention effect		Endocrine, nutritional and	Type 2 diabetes	Others	age ≥18 years
da 2021	Inhibitors on Glycemic Control in Patients with Type 2 Diabetes Association between nutritional guidance or ophthalmological examination and	JMDC		Nationwide		2005	2018 Patient health service utilization	Ouality of care	metabolic diseases Endocrine, nutritional and	diabetes	Others	age ≥20 years
	discontinuation of physician visits in patients with newly diagnosed diabetes: A								metabolic diseases			, , , , , , , , , , , , , , , , , , ,
da 2021	retrospective cohort study using a nationwide database Potassium Concentration in Initial Fluid Therapy and In-Hospital Mortality of Patients	DPC		Nationwide		2010	2018 Intervention effect		Endocrine, nutritional and	patients with diabetic ketoacidosis	Others	age ≥20 years
	with Diabetic Ketoacidosis								metabolic diseases			· · ·
ii 2021	Performance evaluation of case definitions of type 1 diabetes for health insurance claims data in Japan	s Others	Electronic healthcare records data and	Others	a Universi	2009	2019 Research methodology		Endocrine, nutritional and metabolic diseases	type 1 diabetes		
	data in Japan		health insurance		tv				metabolic diseases			
			claims data in a		Hospital							
	Non-financial social determinants of diabetes among public assistance recipients in	Others	hospital medical assistance	A.A		2016	2016 Clinical epidemiology, course of	Socioeconomic comparison	Endocrine, nutritional and	diabetes		
nioka 2020	Non-tinancial social determinants of diabetes among public assistance recipients in Japan: A cohort study	Uthers	claim data, municipal	Municipality	two suburba	2016	diseases	Socioeconomic comparison	Endocrine, nutritional and metabolic diseases	diabetes		
			public assistance		n							
			databases		municip							
					alities, Osaka							
					and							
	1. 1	NDB		Nationwide	Tokyo	2012	2010 001010101010101000000		Palasta and Market	T		
IIURA ZUZU	Incidence and seasonality of type 1 diabetes: a population-based 3-year cohort study using the National Database in Japan	NUB		wationWide		2013	2018 Clinical epidemiology, course of diseases		Endocrine, nutritional and metabolic diseases	Type 1 diabetes		age groups
2020	Comparison of persistence and adherence between DPP-4 inhibitor administration	MDV		Nationwide	-	2015	2018 Medical treatment status	Patient health service utilization	Endocrine, nutritional and	type 2 diabetes	Others	age ≥18 years
	frequencies in patients with type 2 diabetes mellitus in Japan: a claims-based cohort study								metabolic diseases			
uchi 2020	Skipping breakfast, late-night eating and current smoking are associated with medication	n JMDC		Nationwide		2008	2014 Patient health service utilization		Endocrine, nutritional and	diabetes	Others	aged 18-74 year
	adherence in Japanese patients with diabetes								metabolic diseases		A .1	
ita 2019	Treatment patterns of drug-naive patients with type 2 diabetes mellitus: a retrospective cohort study using a Japanese hospital database	MDV		Nationwide		2012	2016 Medical treatment status		Endocrine, nutritional and metabolic diseases	type 2 diabetes	Others	aged ≥18 years
ni 2019	Association between income levels and irregular physician visits after a health checkup,	JHIA	Fukuoka branch of	Prefecture	Fukuoka	2011	2013 Patient health service utilization	Socioeconomic comparison	Endocrine, nutritional and	diabetes	Others	aged 40-64 year
	and its consequent effect on glycemic control among employees: A retrospective		the Japanese Health						metabolic diseases			
	propensity score-matched cohort study		Insurance Association	1								
nimura	Treatment patterns, persistence and adherence rates in patients with type 2 diabetes	Others	JMDC, MDV	Nationwide		2011	2015 Medical treatment status	Patient health service utilization	Endocrine, nutritional and	type 2 diabetes	Others	aged ≥18 years
9 himura	mellitus in Japan: a claims-based cohort study	L Others	JMDC, MDV	Nationwide		2011	2015 Medical treatment status	Patient health service utilization	metabolic diseases Endocrine, nutritional and	type 2 diabetes	Others	a day 1 1 9
nimura 9	Comparison of persistence and adherence between fixed-dose combinations and two-pil combinations in Japanese patients with type 2 diabetes	Uthers	JMDC, MDV	Nationwide		2011	2010 Medical treatment status	Patient health service utilization	Endocrine, nutritional and metabolic diseases	type 2 diabetes	Others	aged ≥18 years
	9 Variation in process quality measures of diabetes care by region and institution in Japan	NDB		Nationwide		2015	2016 Quality of care	Socioeconomic comparison	Endocrine, nutritional and	diabetes	Others	aged ≥20 years
	during 2015-2016: An observational study of nationwide claims data	MDV		Martin M		2000	2017 001010101010101010101010101010101010	Describe the fall of	metabolic diseases	P. I. a.	01	
	Analysis on Real World Data (RWD) using a machine learning model-exploration of the	MDV		Nationwide		2008	2017 Clinical epidemiology, course of diseases	Research methodology	Endocrine, nutritional and metabolic diseases	diabetes	Others	aged ≥18 years
uki 2019												
	factors affecting the utility of oral hypoglycemic agents Changes in the quality of diabetes care in Japan between 2007 and 2015: A repeated	JMDC		Nationwide		2006	2016 Quality of care		Endocrine, nutritional and	diabetes	Others	aged 20-69 year

Ukai 2019	Effectiveness of monthly and bimonthly follow-up of patients with well-controlled type 2 diabetes: a propensity score matched cohort study		NHI	Municipality	Tsu city		2014 Intervention effect	Medical treatment status	Endocrine, nutritional and metabolic diseases		type 2 diabetes		
Zhou 2019	Identification of subgroups of patients with type 2 diabetes with differences in renal function preservation, comparing patients receiving sodium-glucose co-transporter-2 inhibitors with those receiving dipeptidyl peptidase-4 inhibitors, using a supervised	MDV		Nationwide		2014	2016 Intervention effect	Medical treatment status	Endocrine, nutritional and metabolic diseases		type 2 diabetes	Others	aged ≥18 years
	machine-learning algorithm (PROFILE study): A retrospective analysis of a Japanese commercial medical database												
Nishimura 2018	Efficacy of metformin add-on therapy to dipeptidyl peptidase-4 inhibitors in Japanese patients with type 2 diabetes mellitus in real-world clinical practice settings: A retrospective analysis of a health insurance administrative claims database	MDV		Nationwide		2010	2015 Intervention effect		Endocrine, nutritional and metabolic diseases		type 2 diabetes	Others	aged ≥18 years
Nishimura	retrospective analysis of a health insurance administrative claims database Effectiveness of a dipeptidyl peptidase-4 inhibitor as add-on therapy to metformin and c	f MDV		Nationwide		2010	2015 Intervention effect		Endocrine, nutritional and		type 2 diabetes	Others	aged ≥18 years
2018	dose-escalation of metformin in Japanese patients with type 2 diabetes mellitus in real- world clinical practice settings a retrospective analysis of a medical information databas								metabolic diseases				Ŭ ,
Suzuki 2018	Characteristics, Treatment Patterns, and Economic Outcomes of Patients Initiating Injectable Medications for Management of Type 2 Diabetes Mellitus in Japan: Results from a Retrospective Claims Database Analysis	JMDC		Nationwide		2011	2015 Medical treatment status	Health economics	Endocrine, nutritional and metabolic diseases		Type 2 diabetes	Others	aged ≥18 years
Takeuchi 2018	Population-based incidence of diabetic ketoacidosis in type 2 diabetes: medical claims data analysis in Japan	JMDC		Nationwide		2005	2013 Clinical epidemiology, course of diseases		Endocrine, nutritional and metabolic diseases		Diabetes, Diabetic ketoacidosis	Others	aged 20-74 years
Tamura 2018	A study on the prescription status of metformin and DPP-4 inhibitors in patients with type 2 diabetes mellitus in Japan: An analysis of time trends by use of a health insurance the study of the state of the stat			Nationwide		2011	2016 Medical treatment status		Endocrine, nutritional and metabolic diseases		Type 2 diabetes		
Yamashita	administrative claims database [The Differences between the Two Island Towns in Medical Expenses of the National	NHI/LSEHS	NHI	Municipality	Okinoshi	2016	2016 Health economics		Endocrine, nutritional and		Diabetes		
2018	Health Insurance Concerning about Diabetes]	HIII) EOEIIO		manicipanty	ma-cho	2010	Loro Health Continues		metabolic diseases		Diabetes		
					and								
					Ama-								
					cho in the Oki								
					islands								
Ono 2017	Impact of clinic follow-up visits on body weight control in people with prediabetes or	JMDC		Nationwide		2013	2014 Medical treatment status	Intervention effect	Endocrine, nutritional and		Diabetes	Others	aged 40–74 years
	diabetes mellitus: Japanese nonelderly cohort study								metabolic diseases				
Tamura 2017	A study on the prescription status of metformin and DPP-4 inhibitors in patients with type 2 diabetes mellitus in Japan: An analysis of data from health insurance administrative claims	JMDC		Nationwide		2016	2016 Medical treatment status		Endocrine, nutritional and metabolic diseases		Type 2 diabetes		
Tanabe 2017	Prescription of oral hypoglycemic agents for patients with type 2 diabetes mellitus: A retrospective cohort study using a Japanese hospital database	MDV		Nationwide		2008	2013 Medical treatment status		Endocrine, nutritional and metabolic diseases		Type 2 diabetes	Others	aged 40–70 years
	Process quality of diabetes care under favorable access to healthcare: a 2-year longitudinal study using claims data in Japan	JMDC		Nationwide		2010	2012 Quality of care		Endocrine, nutritional and metabolic diseases		diabetes	Others	aged 20-69 years
Kishi 2013	[Hypoglycemia due to the Combination of Sitagliptin and a SU Drug, and Changes in the Daily Dose of the SU Drug Based on the New Safety Measures]	JMDC		Nationwide		2009	2010 Medical treatment status	Health policy evaluation and utilization	Endocrine, nutritional and metabolic diseases		diabetes		
Tomio 2010	Quality of care for diabetes patients using National Health Insurance claims data in	NHI/LSEHS	NHI	Municipality	two	2006	2007 Quality of care	utilization	Endocrine, nutritional and		diabetes		
	Japan				separate				metabolic diseases				
					towns in								
					Kumam oto								
					Prefectu re								
Kosiborod 2018	Cardiovascular Events Associated With SGLT-2 Inhibitors Versus Other Glucose- Lowering Drugs: The CVD-REAL 2 Study	MDV		Nationwide	6 countrie	2013	2017 Intervention effect		Endocrine, nutritional and metabolic diseases		type 2 diabetes (New users of SGLT-2i and $\ensuremath{oGLDs}\xspace)$	Others	aged ≥18 years
Kohro 2013	Trends in antidiabetic prescription patterns in Japan from 2005 to 2011	JMDC		Nationwide	2	2005	2011 Medical treatment status		Endocrine, nutritional and metabolic diseases		diabetes mellitus	Others	aged ≥20 years
Yabe 2015	Use of the Japanese health insurance claims database to assess the risk of acute	JMDC		Nationwide		2009	2013 Intervention effect		Endocrine, nutritional and	Diseases of the digestive system	diabetes, acute pancreatitis	Others	aged 30-74 years
	pancreatitis in patients with diabetes: comparison of DPP-4 inhibitors with other oral								metabolic diseases				
Urushihara	antidiabetic drugs Increased Risk of Acute Pancreatitis in Patients with Type 2 Diabetes: An Observational	MDV		Nationwide		2003	2010 Clinical epidemiology, course of		Endocrine, nutritional and	Diseases of the digestive system	diabetes, acute pancreatitis	Others	aged 18 years or more
2012	Study Using a Japanese Hospital Database	11101		Hationinae		2000	diseases		metabolic diseases	biblists of the digestive system	diabetes, adate partereartis	ouncro	aged to years of more
Kaku 2019	Cost-effectiveness Analysis of Empagliflozin in Japan Based on Results From the Asian	MDV		Nationwide		2016	2017 Health economics		Endocrine, nutritional and	Diseases of the circulatory system	type 2 diabetes mellitus, cardiovascular and		
	subpopulation in the EMPA-REG OUTCOME Trial								metabolic diseases		renal event		
Fujihara 2021	Accuracy of Japanese claims data in identifying diabetes-related complications	DPC	electronic medical chart reviews as the	Others	Niigata Universi	2018	2018 Research methodology		Endocrine, nutritional and metabolic diseases	Diseases of the circulatory system	diabetesrelated complications		
			gold standard		ty								
					Medical								
					& Dental								
K-1	Incidence of adverse cardiovascular events in type 2 diabetes mellitus patients after	NHI/LSEHS	Shizuoka Kokuho	Prefecture	Hospital Shizuok	0010	2018 Intervention effect		Endocrine, nutritional and	D:	type 2 diabetes, adverse cardiovascular events	0.1	≥40 vears of age
Konsaka 2020	Incloence or adverse cardiovascular events in type 2 diabetes mellitus patients after initiation of glucose-lowering agents: A population-based community study from the Shizuoka Kokuho database	NHI/LSEHS	database	Prefecture	а	2013	2018 Intervention effect		metabolic diseases	Diseases of the circulatory system	type 2 diabetes, adverse cardiovascular events	s Others	240 years of age
Komamine	Cardiovascular risks associated with dipeptidyl peptidase-4 inhibitors monotherapy	NDB		Nationwide		2010	2014 Intervention effect		Endocrine, nutritional and	Diseases of the circulatory system	diabetes, cardiovascular disease		age categories
2019	compared with other antidiabetes drugs in the Japanese population: A nationwide cohort								metabolic diseases				
Saina 2021	study Cardiovaccular and conal offectiveness of empadificatin in routine care in East Aria:	MDV		Nationida	(12	2014	2018 Intervention -fft		Endogring autotional and	Dispassos of the -in-ul-to	Dishoton cardiovancular and	Other-	and 19 years as all the
Seino 2021	Cardiovascular and renal effectiveness of empagliflozin in routine care in East Asia: Results from the EMPRISE East Asia study	MDV		Nationwide	(Japan, South	2014	2018 Intervention effect		Endocrine, nutritional and metabolic diseases	Diseases of the circulatory system	Diabetes, cardiovascular, renal	Others	aged 18 years or older
	···				Korea								
					and								
					Taiwan)							8 -1	
ivishioka 2020	Absolute risk of acute coronary syndrome after severe hypoglycemia: A population-base 2-year cohort study using the National Database in Japan	a NDR		Nationwide		2014	2016 Clinical epidemiology, course of diseases		Endocrine, nutritional and metabolic diseases	Diseases of the circulatory system	Diabetes, acute coronary syndrome	Others	aged ≥35 years
	2-year conorcistory dsing the National Database in Japan						uiseases		metabolic diseases				

Ono 2020	Validity of Claims Diagnosis Codes for Cardiovascular Diseases in Diabetes Patients in	Others	HCEI, patient-level	Nationwide	(approxi	2006	2018 Research methodology		Endocrine, nutritional and	Diseases of the circulatory system	Diabetes Cardiovascular Discasor		
no 2020	Japanese Administrative Database	Uthers	electronic medical	Nationwide	(approxi mately	2006	2018 Research methodology		metabolic diseases	Diseases of the circulatory system	Diabetes, Cardiovascular Diseases		
			record and claims		200								
			data		hospital								
					s)							A-1	
mada- urada 2019	Relationship Between Number of Multiple Risk Factors and Coronary Artery Disease Risk With and Without Diabetes Mellitus	JMDC		Nationwide		2008	2016 Clinical epidemiology, course of diseases		Endocrine, nutritional and metabolic diseases	Diseases of the circulatory system	Coronary artery disease risk with and without diabetes mellitus	Others	aged 18 to 72 year
mada 2019	Postoperative outcomes of major lower extremity amputations in patients with diabetes	DPC		Nationwide		2007	2012 Intervention effect		Endocrine, nutritional and	Diseases of the circulatory system			
	and peripheral artery disease: analysis using the Diagnosis Procedure Combination	510		Hationinae		2001			metabolic diseases	biscuses of the encounterly system	autores, perpretar artery alsease		
	database in Japan												
oto 2016	[Association between severe hypoglycemia and the onset of cardiovascular disease in	JMDC		Nationwide		2005	2014 Clinical epidemiology, course of		Endocrine, nutritional and	Diseases of the circulatory system	Type 2 diabetes, hypoglycemia, cardiovascular	Others	aged 18–74 years
	patients with type 2 diabetes: A study using multiple definitions of severe hypoglycemia]*						diseases		metabolic diseases		disease		
lishi 2014							2010 Intervention effect						
ishi 2014	Risk of hospitalization for diabetic macrovascular complications and in-hospital mortality with irregular physician visits using propensity score matching	NHI/LSEHS	Fukuoka National Health Insurance	Prefecture	Fukuoka	2009	2010 Intervention effect	Patient health service utilization	Endocrine, nutritional and metabolic diseases	Diseases of the circulatory system	diabetic macrovascular complications		
	mar megalar physician noise aoing propendity seore materning		Organization										
Vake 2019	Adherence and persistence to hyperlipidemia medications in patients with atherosclerotic	Others	JMDC and MDV	Nationwide		2014	2015 Medical treatment status	Patient health service utilization	Endocrine, nutritional and	Diseases of the circulatory system	hyperlipidemia patients with diabetes mellitus	Others	age >18 years
	cardiovascular disease and those with diabetes mellitus based on administrative claims								metabolic diseases		or prior atherosclerotic cardiovascular diseases	5	
	data in Japan												
agar 2018	Treatment Patterns, Statin Intolerance, and Subsequent Cardiovascular Events Among	JMDC		Nationwide		2006	2014 Medical treatment status	Intervention effect	Endocrine, nutritional and	Diseases of the circulatory system	atherosclerotic cardiovascular disease, diabete	s Others	at least 18 years of
e 2010	Japanese Patients With High Cardiovascular Risk Initiating Statin Therapy	Others	a mutual aid	Prefecture		2000	2005 Health economics		metabolic diseases Endocrine, nutritional and	Brown (d. Rook and	mellitus diabetes, medial and dental care costs	Others	40-54 years old
3 2010	Relationships between diabetes and medical and dental care costs: findings from a worksite cohort study in Japan	Uthers	a mutual aid association (periodic	Prefecture	a prefectu	2000	2005 Health economics		metabolic diseases	Diseases of the digestive system	diabetes, medial and dental care costs	Uthers	40-54 years old
			health examinations		re in								
			and biennial oral		southwe								
			examinations)		stern								
					Japan								
hin 2021		NHI/LSEHS	National Health	Prefecture	а	2015	2016 Intervention effect	Health economics	Endocrine, nutritional and	Diseases of the digestive system	Diabetes, periodontal	Others	aged ≥35 years
	expenditure, hospitalization and worsening of diabetes: an observational study using		Insurance (NHI) and		prefectu				metabolic diseases				
	medical, dental and pharmacy claims data in Japan		the Medical Care System for the		re								
			Elderly										
uzuki 2021	Evaluation of Public Health Expenditure by Number of Teeth among Outpatients with	NDB	Lideny	Nationwide		2015	2016 Clinical epidemiology, course of	Health economics	Endocrine, nutritional and	Diseases of the digestive system	Diabetes, periodontitis	Others	aged 50-74 years
	Diabetes Mellitus						diseases		metabolic diseases				
uzuki 2020		NDB		Nationwide		2015	2016 Clinical epidemiology, course of		Endocrine, nutritional and	Diseases of the digestive system	diabetes, tooth loss	Others	aged 50–74 years
	Database of Health Insurance Claims and Specific Health Checkups of Japan						diseases		metabolic diseases				
uzuki 2019	Relationship between Blood HbA1c Level and Decayed Teeth in Patients with Type 2	Others	MinaCare (results of	Nationwide		2013	2013 Clinical epidemiology, course of		Endocrine, nutritional and	Diseases of the digestive system	diabetes, decayed teeth	Others	aged 40-59 years
aito 2017	Diabetes: A Cross-sectional Study Association between dental visits for periodontal treatment and type 2 diabetes mellitus	NUL/LOEUC	dental examinations) late- stage medical	Desfaature	Mie	2014	diseases 2014 Medical treatment status	Clinical epidemiology, course of	metabolic diseases Endocrine, nutritional and	Discourse of the distortion contemp	periodontal treatment, type 2 diabetes mellitus	014	ared 75 at 90
anto 2017	in an elderly Japanese cohort	NHI/Lacha	care system for the	Frefecture	Mile	2014	2014 Medical treatment status	diseases	metabolic diseases	Diseases of the digestive system	periodonital treatment, type 2 diabetes menitus	older persons	aged 75 of 60 years
			older population										
sawa 2021	Severity of hypertension as a predictor of initiation of dialysis among study participants	JMDC		Nationwide		2008	2016 Clinical epidemiology, course of		Endocrine, nutritional and	Diseases of the genitourinary	Diabetes, dialysis	Others	aged 19-72 years
	with and without diabetes mellitus						diseases		metabolic diseases	system			
sawa 2019	Higher pulse pressure predicts initiation of dialysis in Japanese patients with diabetes	JMDC		Nationwide		2008	2013 Clinical epidemiology, course of		Endocrine, nutritional and	Diseases of the genitourinary	diabetes, Dialysis	Others	aged 19-72 years
	1					0015	diseases		metabolic diseases	system			
bihara 2019	[A fact-finding survey of lifestyle-related diseases such as diabetes and the introduction of new dialvsis in Mivazaki Prefecture]*	NHI/LSEHS	National Health	Prefecture	Miyazaki	2015	2016 Medical treatment status		Endocrine, nutritional and metabolic diseases	Diseases of the genitourinary system	Diabetes, dialysis		
	of new dialysis in whyazaki rifecturej		Stage Elderly						metabolic diseases	system			
			Healthcare System										
ogami 2017	Risk of disseminated intravascular coagulation in patients with type 2 diabetes mellitus:	MDV		Nationwide		2010	2014 Clinical epidemiology, course of		Endocrine, nutritional and		Diabetes, disseminated intravascular	Others	aged 18–79 years
	retrospective cohort study						diseases		metabolic diseases		coagulation		
oba 2017		JMDC		Nationwide		2005	2011 Intervention effect		Endocrine, nutritional and		Diabetes, lipid-lowering drugs	Others	aged 20 to 74 years
	healthcare data linked to clinical data for health screening	1100		MI-17-11		0005	2012 D		metabolic diseases	Brown (1)	CONTRACTOR PLAN	0.1	
awamura	Influence of comorbidities on the implementation of the fundus examination in patients	JMDC		Nationwide		2005	2013 Patient health service utilization		Endocrine, nutritional and motabolic discassos	Diseases of the eye and adnexa	type 2 diabetes, diabetic eye examination	Others	>20 years of age
uuð awasaki 2019	with newly diagnosed type 2 diabetes Lipid-lowering medication is associated with decreased risk of diabetic retinopathy and	IMDC		Nationwide		2005	2017 Intervention effect		metabolic diseases Endocrine, nutritional and	Diseases of the eye and adnexa	type 2 diabetes, diabetic retinopathy	Others	≥18 years of age
	the need for treatment in patients with type 2 diabetes: A real-world observational					2000	increation of ou		metabolic diseases	of the cyc and defierd			o yours or age
	analysis of a health claims database												
amamoto		JMDC		Nationwide		2008	2015 Clinical epidemiology, course of		Endocrine, nutritional and	Diseases of the eye and adnexa	diabetic retinopathy	Others	aged 19-72 years
019	Diseases in Diabetes Mellitus						diseases		metabolic diseases				
oughead		JMDC		Nationwide	Australia	2005	2010 Intervention effect	Socioeconomic comparison	Endocrine, nutritional and	Diseases of the circulatory system	diabetes, heart failure, edema		
15	Groups: Retrospective analysis of Large Healthcare Claims Databases in Six Countries				, Hong				metabolic diseases				
					Kong, Japan,								
					Korea								
					and								
					Taiwan								
altimate 2015	Supplier-Induced Demand for Chronic Disease Care in Japan: Multilevel Analysis of the	JHIA	patient surveys	Nationwide		2013	2013 Health policy evaluation and	Health economics	Endocrine, nutritional and	Diseases of the circulatory system	Chronic Disease Care (hypertension, diabetes)	Others	at least 20 years o
ekimoto 2013	Association between Physician Density and Physician-Patient Encounter Frequency		(MHLW),				utilization		metabolic diseases				
SKIIIIOLO 2013					Tokvo	0010	0014 14 15 11 11 11 11 11 11 11	Barbarbarbarbar an ann		6	destruction of the second second second	011	
		A COLOR OF A COLOR OF A COLOR				2013	2014 Medical treatment status	Patient health service utilization	Endocrine, nutritional and	Diseases of the circulatory system	diabetes, hypertension, dyslipidemia	Ulder persons	≥75 years of age
itsutake	Association of pharmacological treatments for hypertension, diabetes, and dyslipidemia	NHI/LSEHS	Tokyo Extended	Prefecture	Токуо	2010							
	with health checkup participation and identification of disease control factors among	NHI/LSEHS	Association of	Prefecture	Токуо	2010			metabolic diseases	,, _,, _			
tsutake		NHI/LSEHS	· ·	Prefecture	Токуо	2010				,,,,,			

Hashiguchi 2019	Occupational Health Services Improve Effective Coverage for Hypertension and Diabetes Oth Mellitus at Japanese Companies	thers	general medical exam data, human resources	0 Others	a general electoric	2011	2012 Health policy evaluation and utilization		Endocrine, nutritional and metabolic diseases	Diseases of the circulatory system	diabetes, hypertension	Others	40-59 years old
			information, and medical claims data		al manufac								
			(at a general electrical		turer								
			manufacturer)										
Hara 2018	Association measures of claims-based algorithms for common chronic conditions were JM assessed using regularly collected data in Japan	MDC		Nationwide		2013	2015 Prediction model	Clinical epidemiology, course of diseases	Endocrine, nutritional and metabolic diseases	Diseases of the circulatory system	diabetes, hypertension, dyslipidemia		
Fujita 2015	Validity assessment of self-reported medication use by comparing to pharmacy insurance NH	HI/LSEHS	NHI (self-reported	Municipality	Chiba	2012	2013 Research methodology	000000	Endocrine, nutritional and	Diseases of the circulatory system	diabetes, dyslipidemia, hypertension	Others	40-74 years old
	claims		questionnaire required in the health check-up)		City				metabolic diseases				
Katada 2012	[Medication Adhesion to Calcium Channel Blocker and HMG - CoA Reductase Inhibitor in Oth	thers	check-up) pharmacy claims data	Nationwide	pharmac	2011	2011 Patient health service utilization		Endocrine, nutritional and	Diseases of the circulatory system	diabetes, dyslipidemia, hypertension		
	Patients with Diabetes and Beneficial Effects of a Single Pill Amlodipine/Atorvastatin]		,,		y claims				metabolic diseases	,,			
					data								
					(100 dispensa								
					ries)								
Katada 2012		thers	pharmacy claims data	Nationwide	pharmac	2011	2011 Patient health service utilization		Endocrine, nutritional and	Diseases of the circulatory system	dyslipidemia, hypertension		
	Regimen Based on Japanese Health Insurance Claims]				y claims				metabolic diseases				
					data (100								
					dispensa								
					ries)								
Yamana 2020	Association between mandatory health examination attendance and diabetes treatment JM initiation among employees being treated for hypertension	NDC		Nationwide		2012	2016 Patient health service utilization		Endocrine, nutritional and metabolic diseases	Diseases of the circulatory system	diabetes, hypertension	Others	aged 40-59 years
Horii 2020	Real-world risk of hypoglycemia-related hospitalization in Japanese patients with type 2 MD	1DV		Nationwide		2014	2019 Clinical epidemiology, course of	Intervention effect	Endocrine, nutritional and		type 2 diabetes, hypoglycemia	Others	≥18 years of age
Ikeda 2019	diabetes using SGLT2 inhibitors: a nationwide cohort study Retrospective analysis of medical costs and resource utilization for severe hypoglycemic MD	IDV		Nationwide		2008	diseases 2014 Health economics		metabolic diseases Endocrine, nutritional and		diabetes, hypoglycemic events		
	events in patients with type 2 diabetes in Japan								metabolic diseases				
Ikeda 2018	Incidence rate and patient characteristics of severe hypoglycemia in treated type 2 MD	1DV		Nationwide		2008	2015 Clinical epidemiology, course of		Endocrine, nutritional and		type 2 diabetes, hypoglycemia	Others	>20 years of age
	diabetes mellitus patients in Japan: Retrospective Diagnosis Procedure Combination						diseases		metabolic diseases				
Rennett 2016	database analysis Association between therapy with dipeptidyl peptidase-4 (DPP-4) inhibitors and risk of ME	IDV		Nationwide		2010	2014 Intervention effect		Endocrine, nutritional and	Diseases of the digestive system	type 2 diabetes, ileus	Others	≥40 years of age
bennett 2010	ileus: a cohort study			Hationinae		2010	2014 Interferition enter		metabolic diseases	biseases of the digestive system	Gpo 2 diabotas, neus	oulors	240 (000 01 000
Nishioka 2021	Association between influenza and the incidence rate of new-onset type 1 diabetes in ND	DB		Nationwide		2013	2018 Clinical epidemiology, course of		Endocrine, nutritional and	Diseases of the respiratory system	type 1 diabetes, influenza		
Heerspink	Japan Kidney outcomes associated with use of SGLT2 inhibitors in real-world clinical practice MD	IDV	five countries	Nationwide		2014	diseases 2017 Intervention effect		metabolic diseases Endocrine, nutritional and	Diseases of the genitourinary	type 2 diabetes, Kidney outcomes	Others	age 18 years or older
2020	(CVD-REAL 3): a multinational observational cohort study	101	ive countries	Nationwide		2014	2017 Intervention enect		metabolic diseases	system	type 2 diabetes, Runey outcomes	Others	age 10 years of older
		thers	1 101 1	Prefecture	Fukuoka	2011	2013 Intervention effect						
Miyazaki 2015		uners	health insurance	Freiecture	никиока	2011	2013 Intervention enect		Endocrine, nutritional and	Diseases of the genitourinary	diabetic kidney disease	Others	≥40 years of age
Miyazaki 2015	Does antihypertensive treatment with renin-angiotensin system inhibitors prevent the Oth development of diabetic kidney disease?	chers	societies located in	Freiecture	and	2011	2013 Intervention enect		Endocrine, nutritional and metabolic diseases	Diseases of the genitourinary system	diabetic kidney disease	Others	≥40 years of age
Miyazaki 2015		uners	societies located in the Japanese	Freiecture		2011	2013 Intervention enect			· ,	drabetic kidney disease	Others	≥40 years of age
Miyazaki 2015		ulers	societies located in	Freiecture	and	2011	2013 Intervention enect			· ,	diabetic kidney disease	Others	≥40 years of age
	development of diabetic kidney disease?		societies located in the Japanese prefectures of		and				metabolic diseases	system			
Miyazaki 2015 Ono 2020	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in JM	MDC	societies located in the Japanese prefectures of Fukuoka and	Nationwide	and	2005	2015 mervention enect	Intervention effect	metabolic diseases Endocrine, nutritional and	system	diabetic kidney disease Diabetes, non-diabetic kidney diseases	Others	≥40 years of age age ≥18 years
	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in JM Estimated Giomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese		societies located in the Japanese prefectures of Fukuoka and		and			Intervention effect	metabolic diseases	system			
Ono 2020	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in JM Estimated Glomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cohort Study		societies located in the Japanese prefectures of Fukuoka and Shizuoka		and				metabolic diseases Endocrine, nutritional and	system			
Ono 2020	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in JM Estimated Giomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Eldery Cohort Study	MDC	societies located in the Japanese prefectures of Fukuoka and Shizuoka	Nationwide	and Shizuok a a large city	2005	2016 Quality of care		metabolic diseases Endocrine, nutritional and metabolic diseases	system Diseases of the genitourinary system	Diabetes, non-diabetic kidney diseases	Others	age ≥18 years
Ono 2020	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in JM Estimated Giomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cohort Study Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal NH	MDC	societies located in the Japanese prefectures of Fukuoka and Shizuoka	Nationwide	and Shizuok a a large city within	2005	2016 Quality of care 2017 Clinical epidemiology, course of		metabolic diseases Endocrine, nutritional and metabolic diseases Endocrine, nutritional and	system Diseases of the genitourinary system Diseases of the genitourinary	Diabetes, non-diabetic kidney diseases	Others	age ≥18 years
Ono 2020	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in JM Estimated Giomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cohort Study Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal NH	MDC	societies located in the Japanese prefectures of Fukuoka and Shizuoka	Nationwide	and Shizuok a a large city	2005	2016 Quality of care 2017 Clinical epidemiology, course of		metabolic diseases Endocrine, nutritional and metabolic diseases Endocrine, nutritional and	system Diseases of the genitourinary system Diseases of the genitourinary	Diabetes, non-diabetic kidney diseases	Others	age ≥18 years
Ono 2020	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in JM Estimated Giomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cohort Study Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal NH	MDC HI/LSEHS	societies located in the Japanese prefectures of Fukuoka and Shizuoka	Nationwide	and Shizuok a a large city within the	2005	2016 Quality of care 2017 Clinical epidemiology, course of		metabolic diseases Endocrine, nutritional and metabolic diseases Endocrine, nutritional and	system Diseases of the genitourinary system Diseases of the genitourinary	Diabetes, non-diabetic kidney diseases	Others Others	age ≥18 years
Ono 2020 Sugiyama 2015 Yamamoto 2019	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in JM Estimated Giomerular Fitration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cohort Study Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal NH Analysis Using Medical Claims and Health Checkup Data Overt Proteinuria, Moderately Reduced eGFR and Their Combination Are Predictive of JM Severe Diabetic Retinopathy or Diabetic Macular Edema in Diabetes	MDC HI/LSEHS MDC	societies located in the Japanese prefectures of Fukuoka and Shizuoka	Nationwide Municipality Nationwide	and Shizuok a a large city within the	2005 2012 2008	2016 Quality of care 2017 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases		metabolic diseases Endocrine, nutritional and metabolic diseases Endocrine, nutritional and metabolic diseases Endocrine, nutritional and metabolic diseases	Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system	Diabetes, non-diabetic kidney diseases diabetes, Renal Replacement Therapy diabetes, overt proteinuria, moderately reduce eGFR	Others Others	age ≥18 years aged 40-74 years
Ono 2020 Sugiyama 2015 Yamamoto	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in JM Estimated Giomerular Filtration Rate in Patients With Diabetes Melificus: A Japanese Non-Elder/ Cohort Study Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal NH Analysis Using Medical Claims and Health Checkup Data Overt Proteinuria, Moderately Reduced eGFR and Their Combination Are Predictive of JM Severe Diabetic Reinipathy or Diabetic Macular Edema in Diabetes Incidence and Causes of mildly to batic Macular Edema in Diabetes Mt	MDC HI/LSEHS MDC	societies located in the Japanese prefectures of Fukuoka and Shizuoka	Nationwide Municipality	and Shizuok a a large city within the	2005 2012	2016 Quality of care 2017 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of		matabolic diseases Endocrine, nutritional and	system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary	Diabetes, non-diabetic kidney diseases diabetes, Renal Replacement Therapy diabetes, overt proteinuria, moderately reduce	Others Others	age ≥18 years
Ono 2020 Sugiyama 2019 Yamamoto 2019 Chang 2020	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in Estimated Giomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cohort Study Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal Analysis Using Medical Claims and Health Checkup Data Overt Proteinuria, Moderately Reduced eGFR and Their Combination Are Predictive of Severe Diabetic Retinopathy or Diabetic Macular Edema in Diabetes Incidence and causes of midgy to moderately elevated aminotransferase in Japanese Mc Detertion Severe Diabetic Retinopathy of Diabetic Macular Edema in Diabetes Incidence 2 diabetes	MDC HI/LSEHS MDC IDV	societies located in the Japanese prefectures of Fukuoka and Shizuoka	Nationwide Municipality Nationwide	and Shizuok a a large city within the	2005 2012 2008 2010	2016 Quality of care 2017 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases	Medical treatment status	metabolic diseases Endocrine, nutritional and metabolic diseases	system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the digestive system	Diabetes, non-diabetic kidney diseases diabetes, Renal Replacement Therapy diabetes, overt proteinuria, moderately reduce eGFR	Others Others	age ≥18 years aged 40-74 years ≥18 years of age
Ono 2020 Sugiyama 2015 Yamamoto 2019	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in JM Estimated Giomerular Filtration Rate in Patients With Diabetes Melificus: A Japanese Non-Elder/ Cohort Study Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal NH Analysis Using Medical Claims and Health Checkup Data Overt Proteinuria, Moderately Reduced eGFR and Their Combination Are Predictive of JM Severe Diabetic Reinipathy or Diabetic Macular Edema in Diabetes Incidence and Causes of mildly to batic Macular Edema in Diabetes Mt	MDC HI/LSEHS MDC IDV	societies located in the Japanese prefectures of Fukuoka and Shizuoka	Nationwide Municipality Nationwide	and Shizuok a a large city within the	2005 2012 2008	2016 Quality of care 2017 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of		matabolic diseases Endocrine, nutritional and	Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system	Diabetes, non-diabetic kidney diseases diabetes, Renal Replacement Therapy diabetes, overt proteinuria, moderately reduce eGFR Type 2 Diabetes, liver disease	Others Others	age ≥18 years aged 40-74 years
Ono 2020 Sugiyama 2015 Yamamoto 2019 Chang 2020 Sato 2016	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in Estimated Glomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cohort Study Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal Analysis Using Medical Claims and Health Checkup Data Overt Proteinuria, Moderately Reduced eGFR and Their Combination Are Predictive of Severe Diabetic Retinopathy or Diabetic Macular Edema in Diabetes Incidence and causes of mildly to moderately elevated aminotransferase in Japanese Fracture risk and healthcare resource utilization and costs among osteoporosis patients with type 2 diabetes mellitus and without diabetes mellitus in Japan: retrospective analysis of a hospital claims database	MDC HI/LSEHS MDC IDV	societies located in the Japanese prefectures of Fukuoka and Shizuoka	Nationwide Municipality Nationwide Nationwide	and Shizuok a a large city within the	2005 2012 2008 2010 2008	2016 Quality of care 2017 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases 2018 Clinical epidemiology, course of diseases 2013 Clinical epidemiology, course of diseases	Medical treatment status	metabolic diseases Endocrine, nutritional and metabolic diseases	system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the digestive system Diseases of the digestive system Diseases of the musculoskeletal system and connective tissue	Diabetes, non-diabetic kidney diseases diabetes, Renal Replacement Therapy diabetes, overt proteinuria, moderately reduces eGFR Type 2 Diabetes, liver disease diabetes, osteoporosis	Others Others Others Others	age ≥18 years aged 40-74 years ≥18 years of age aged 50 years or older
Ono 2020 Sugiyama 2015 Yamamoto 2019 Chang 2020 Sato 2016	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in Estimated Glomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cohort Study Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal NH Analysis Using Medical Claims and Health Checkup Data Overt Proteinuria, Moderately Reduced eGFR and Their Combination Are Predictive of Severe Diabetic Retinopathy or Diabetic Macular Edema in Diabetes Incidence and causes of middy to moderately elevated aminotransferase in Japanese Mc patients with type 2 diabetes Fracture risk and healthcare resource utilization and costs among osteoporosis patients Weith type 2 diabetes oftamiddy to moderately elevated aminotransferase in Japanese Mc with type 2 diabetes oftamiddy to moderately elevated aminotransferase in Japanese Sodum-glucose cotransporter-2 inhibitors and the risk of urinary tract infection among ND	MDC HI/LSEHS MDC IDV	societies located in the Japanese prefectures of Fukuoka and Shizuoka	Nationwide Municipality Nationwide	and Shizuok a a large city within the	2005 2012 2008 2010	2016 Quality of care 2017 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2013 Clinical epidemiology, course of	Medical treatment status	metabolic diseases Endocrine, nutritional and	system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the digestive system Diseases of the digestive system Diseases of the digestive system Diseases of the genitourinary System and connective tissue Diseases of the genitourinary	Diabetes, non-diabetic kidney diseases diabetes, Renal Replacement Therapy diabetes, overt proteinuria, moderately reduce eGFR Type 2 Diabetes, liver disease	Others Others	age ≥18 years aged 40-74 years ≥18 years of age
Ono 2020 Sugiyama 2015 Yamamoto 2019 Chang 2020 Sato 2016	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in Estimated Glomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cohort Study Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal Analysis Using Medical Claims and Health Checkup Data Overt Proteinuria, Moderately Reduced eGFR and Their Combination Are Predictive of Severe Diabetic Retinopathy or Diabetic Macular Edema in Diabetes Incidence and causes of mildly to moderately elevated aminotransferase in Japanese Fracture risk and healthcare resource utilization and costs among osteoporosis patients with type 2 diabetes mellitus and without diabetes mellitus in Japan: retrospective analysis of a hospital claims database	MDC HI/LSEHS MDC IDV	societies located in the Japanese prefectures of Fukuoka and Shizuoka	Nationwide Municipality Nationwide Nationwide	and Shizuok a a large city within the	2005 2012 2008 2010 2008	2016 Quality of care 2017 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases 2018 Clinical epidemiology, course of diseases 2013 Clinical epidemiology, course of diseases	Medical treatment status	metabolic diseases Endocrine, nutritional and metabolic diseases	system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the digestive system Diseases of the digestive system Diseases of the musculoskeletal system and connective tissue	Diabetes, non-diabetic kidney diseases diabetes, Renal Replacement Therapy diabetes, overt proteinuria, moderately reduces eGFR Type 2 Diabetes, liver disease diabetes, osteoporosis	Others Others Others Others	age ≥18 years aged 40-74 years ≥18 years of age aged 50 years or older
Ono 2020 Sugiyama 2015 Zong Chang 2020 Sato 2016 Takeuchi 2021	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in Estimated Giomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cohort Study Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal Analysis Using Medical Claims and Health Checkup Data Overt Proteinuria, Moderately Reduced eGFR and Their Combination Are Predictive of Severe Diabetic Retinopathy or Diabetic Macular Edema in Diabetes Incidence and causes of mildy to moderately elevated aminotransferase in Japanese Fracture risk and healthcare resource utilization and costs among ostoporosis patients With type 2 diabetes Sodium-glucose cotransporter-2 Inhibitors and the risk of urinary tract infection among Sodium-glucose cotransporter-2 Inhibitors and the risk of urinary tract infection among Antidyslipidemic Drug Prescriptions and Lipid Control Status After Unfavorable Annual Ott	NDC HI/LSEHS NDC IDV IDV DB	societies located in the Japanese prefectures of Fukuoka and Shizuoka	Nationwide Municipality Nationwide Nationwide	and Shizuok a a large city within the	2005 2012 2008 2010 2008	2016 Quality of care 2017 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases 2018 Clinical epidemiology, course of diseases 2013 Clinical epidemiology, course of diseases	Medical treatment status	metabolic diseases Endocrine, nutritional and metabolic diseases	system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the digestive system Diseases of the digestive system Diseases of the digestive system Diseases of the genitourinary System and connective tissue Diseases of the genitourinary	Diabetes, non-diabetic kidney diseases diabetes, Renal Replacement Therapy diabetes, overt proteinuria, moderately reduces eGFR Type 2 Diabetes, liver disease diabetes, osteoporosis	Others Others Others Others	age ≥18 years aged 40-74 years ≥18 years of age aged 50 years or older
Ono 2020 Sugiyama 2015 Zong Chang 2020 Sato 2016 Takeuchi 2021	development of diabetic kidney disease? JM Association Between Routine Nephropathy Monitoring and Subsequent Change in Estimated Giomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cohort Study JM Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal Analysis Using Medical Claims and Health Checkup Data NH Overt Proteinuria, Moderately Reduced eGFR and Their Combination Are Predictive of Severe Diabetic Retinopathy or Diabetic Macular Edema in Diabetes JM Incidence and causes of mildly to moderately elevated aminotransferase in Japanese patients with type 2 diabetes ME Sodium-glucose octransporter-2 Inhibitors and the risk of urinary tract Infection among diabetic patients in Japan: Target trial emulation using a nationwide administrative claims database ND Sodium-glucose noting Prescriptions and Lipid Control Status After Unfavorable Annual Antidyalpidemic Drug Prescriptions and Lipid Control Status Mater Unfavorable Annual ND	NDC HI/LSEHS NDC IDV IDV DB	societies located in the Japanese prefectures of Fukuoka and Shizuoka NHI	Nationwide Municipality Nationwide Nationwide Nationwide	and Shizuok a a large city within the	2005 2012 2008 2010 2008 2014	2016 Quality of care 2017 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2013 Clinical epidemiology, course of diseases 2013 Clinical epidemiology, course of diseases 2013 Intervention effect	Medical treatment status	matabolic diseases Endocrine, nutritional and matabolic diseases	system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the digestive system Diseases of the digestive system Diseases of the digestive system Diseases of the genitourinary System and connective tissue Diseases of the genitourinary	Diabetes, non-diabetic kidney diseases diabetes, Renal Replacement Therapy diabetes, overt proteinuria, moderately reduces eGFR Type 2 Diabetes, liver disease diabetes, osteoporosis Diabetes, urinary tract infection (UTI)	Others Others Others Others Others	age ≥18 years aged 40-74 years ≥18 years of age aged 50 years or older aged ≥40 years
Ono 2020 Sugiyama 2015 2019 Chang 2020 Sato 2016 Takeuchi 2021 Nozawa 2021	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in Estimated Glomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cobort Study Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal NH Analysis Using Medical Claims and Health Checkup Data Overt Proteinuria, Moderately Reduced eGFR and Their Combination Are Predictive of Severe Diabetic Retinopathy or Diabetic Macular Edema in Diabetes Incidence and causes of mildly to moderately elevated aminotransferase in Japanese ME patients with type 2 diabetes Fracture risk and healthcare resource utilization and costs among osteoporosis patients Muthytop 2 diabetes Sodium-glucos octransporter-2 Inhibitors and the risk of urinary tract infection among diabetic patients in Japan: Target trial emulation using a nationwide administrative claims database Antidyslighdemic Drug Prescriptions and Lipid Control Status After Unfavorable Annual Health Checkup Results: A Retrospective Cohort Study Using a Health Insurance Database	MDC HI/LSEHS MDC IDV IDV IDV IDV IDB thers	societies located in the Japanese prefectures of Fukuoka and Shizuoka NHI MinaCare	Nationwide Municipality Nationwide Nationwide Nationwide Nationwide	and Shizuok a a large city within the	2005 2012 2008 2010 2008 2010 2008 2014	2016 Quality of care 2017 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2013 Clinical epidemiology, course of diseases 2013 Clinical epidemiology, course of diseases 2015 Intervention effect 2017 Patient health service utilization	Medical treatment status	matabolic diseases Endocrine, nutritional and metabolic diseases	system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the digestive system Diseases of the digestive system Diseases of the digestive system Diseases of the genitourinary System and connective tissue Diseases of the genitourinary	Diabetes, non-diabetic kidney diseases diabetes, Renal Replacement Therapy diabetes, overt proteinuria, moderately reduces eGFR Type 2 Diabetes, liver disease diabetes, osteoporosis Diabetes, urinary tract infection (UTI) dyslipidemia	Others Others Others Others Others Others	age ≥18 years aged 40-74 years ≥18 years of age aged 50 years or older aged ≥40 years aged 20-74 years
Ono 2020 Sugiyama 2015 Zong Chang 2020 Sato 2016 Takeuchi 2021	development of diabetic kidney disease? JM Association Between Routine Nephropathy Monitoring and Subsequent Change in Estimated Giomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cohort Study JM Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal Analysis Using Medical Claims and Health Checkup Data NH Overt Proteinuria, Moderately Reduced eGFR and Their Combination Are Predictive of Severe Diabetic Retinopathy or Diabetic Macular Edema in Diabetes JM Incidence and causes of mildly to moderately elevated aminotransferase in Japanese patients with type 2 diabetes ME Sodium-glucose octransporter-2 Inhibitors and the risk of urinary tract Infection among diabetic patients in Japan: Target trial emulation using a nationwide administrative claims database ND Sodium-glucose noting Prescriptions and Lipid Control Status After Unfavorable Annual Antidyalpidemic Drug Prescriptions and Lipid Control Status Mater Unfavorable Annual ND	MDC HI/LSEHS MDC IDV IDV IDV IDV IDB thers	societies located in the Japanese prefectures of Fukuoka and Shizuoka NHI	Nationwide Municipality Nationwide Nationwide Nationwide Nationwide	and Shizuok a a large city within the	2005 2012 2008 2010 2008 2014	2016 Quality of care 2017 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2013 Clinical epidemiology, course of diseases 2013 Clinical epidemiology, course of diseases 2013 Intervention effect	Medical treatment status	metabolic diseases Endocrine, nutritional and metabolic diseases	system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the digestive system Diseases of the digestive system Diseases of the digestive system Diseases of the genitourinary System and connective tissue Diseases of the genitourinary	Diabetes, non-diabetic kidney diseases diabetes, Renal Replacement Therapy diabetes, overt proteinuria, moderately reduces eGFR Type 2 Diabetes, liver disease diabetes, osteoporosis Diabetes, urinary tract infection (UTI)	Others Others Others Others Others	age ≥18 years aged 40-74 years ≥18 years of age aged 50 years or older aged ≥40 years
Ono 2020 Sugiyama 2019 Chang 2020 Sato 2016 Takeuchi 2021 Nozawa 2021 Umeda 2019	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in Estimated Giomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cohort Study Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal Analysis Using Medical Claims and Health Checkup Data Overt Proteinuria, Moderately Reduced eGFR and Their Combination Are Predictive of Severe Diabetic Retinopathy or Diabetic Macular Edema in Diabetes Incidence and causes of mildy to moderately elevated amiortansferase in Japanese Tracture risk and healthcare resource utilization and costs among ostoporosis patients With type 2 diabetes Sodium-glucose cotransporter-2 inhibitors and the risk of urinary tract infection among Natifysipidemic Drug Prescriptions and Lipid Control Status After Unfavorable Annual Antidyslipidemic Drug Prescriptions and Lipid Control Status After Unfavorable Annual Health Checkup Results: A Retrospective Cohort Study Using a Health Insurance Database Destabase	MDC HI/LSEHS MDC IDV IDV DB thers thers	societies located in the Japanese prefectures of Fukuoka and Shizuoka NHI MinaCare the IQVIA National Prescription Audit database	Nationwide Municipality Nationwide Nationwide Nationwide Nationwide Nationwide	and Shizuok a a large city within the	2005 2012 2008 2010 2008 2010 2008 2014 2015 2015	2016 Quality of care 2017 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases 2018 Intervention effect 2017 Patient health service utilization 2018 Patient health service utilization	Medical treatment status	metabolic diseases Endocrine, nutritional and metabolic diseases	system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the digestive system Diseases of the digestive system Diseases of the digestive system Diseases of the genitourinary System and connective tissue Diseases of the genitourinary	Diabetes, non-diabetic kidney diseases diabetes, Renal Replacement Therapy diabetes, overt proteinuria, moderately reduces eGFR Type 2 Diabetes, liver disease diabetes, osteoporosis Diabetes, urinary tract infection (UTI) dyslipidemia dyslipidemia	Others Others Others Others Others Others Others	age ≥18 years aged 40-74 years ≥18 years of age aged 50 years or older aged ≥40 years aged 20-74 years aged ≥20 years
Ono 2020 Sugiyama 2015 2019 Chang 2020 Sato 2016 Takeuchi 2021 Nozawa 2021	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in Estimated Giomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cohort Study Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal Analysis Using Medical Claims and Health Checkup Data Overt Proteinuria, Moderately Reduced eGFR and Their Combination Are Predictive of Severe Diabetic Retinopathy or Diabetic Macular Edema in Diabetes Incidence and causes of mildly to moderately elevated aminotransferase in Japanese Fracture risk and healthcare resource utilization and costs among osteoporosis patients with type 2 diabetes Sodium-glucose octransporter-2 Inhibitors and the risk of urinary tract Infection among diabetic patients in Japan: Target trial emulation using a nationwide administrative claims database Antidyslipidemic Drug Prescriptions and Lipid Control Status After Unfavorable Annual Health Checkup Reuts: A Retrospective Cohort Study Using a Health Insurance Database Medication Adhrence/Peristence and Demographics of Japanese Dyslipidemia Patients of th Observational Pharmacy Claims Database Study Treatment patterns in hyperFigideemia patients based on administrative claim databases Oti	MDC HI/LSEHS MDC IDV IDV DB thers thers	societies located in the Japanese prefectures of Fukuoka and Shizuoka NHI MinaCare the IQVIA National Prescription Audit	Nationwide Municipality Nationwide Nationwide Nationwide Nationwide	and Shizuok a a large city within the	2005 2012 2008 2010 2008 2010 2008 2014	2016 Quality of care 2017 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2013 Clinical epidemiology, course of diseases 2013 Clinical epidemiology, course of diseases 2015 Intervention effect 2017 Patient health service utilization	Medical treatment status	metabolic diseases Endocrine, nutritional and metabolic diseases	system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the digestive system Diseases of the digestive system Diseases of the digestive system Diseases of the genitourinary System and connective tissue Diseases of the genitourinary	Diabetes, non-diabetic kidney diseases diabetes, Renal Replacement Therapy diabetes, overt proteinuria, moderately reduces eGFR Type 2 Diabetes, liver disease diabetes, osteoporosis Diabetes, urinary tract infection (UTI) dyslipidemia	Others Others Others Others Others Others	age ≥18 years aged 40-74 years ≥18 years of age aged 50 years or older aged ≥40 years aged 20-74 years
Ono 2020 Sugiyama 2015 2019 Chang 2020 Sato 2016 Takeuchi 2021 Nozawa 2021 Umeda 2019 Wake 2018	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in Estimated Glomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cobort Study Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal NH Analysis Using Medical Claims and Health Checkup Data Overt Proteinuria, Moderately Reduced eGFR and Their Combination Are Predictive of Severe Diabetic Retinopathy or Diabetic Macular Edema in Diabetes Incidence and causes of mildly to moderately devated aminotransferase in Japanese Nu patients with type 2 diabetes Fracture risk and healthcare resource utilization and costs among osteoporosis patients Mithype 2 diabetes Sodium-glucose otransporter-2 inhibitors and the risk of urinary tract infection among diabetic patients in Japan: Target trial emulation using a nationwide administrative claims database Antidyslipidemic Drug Prescriptions and Lipid Control Status After Unfavorable Annual Health Checkup Results: A Retrospective Cohort Study Using a Health Insurance Database Medication Adherence/Persistence and Demographics of Japanese Dyslipidemia Patients Oft Or Statin-Estimite as a Separate PII Combination Lipid-Lovering Therapy - An Observational Pharmacy Claims Database Study Treatment patterns in hyperFipideemia patients based on administrative claim database Oft	MDC HI/LSEHS MDC tDV DD DB thers thers thers	societies located in the Japanese prefectures of Fukuoka and Shizuoka NHI MinaCare the IQVIA National Prescription Audit database	Nationwide Municipality Nationwide Nationwide Nationwide Nationwide Nationwide	and Shizuok a a large city within the	2005 2012 2008 2010 2008 2010 2008 2014 2015 2014	2016 Quality of care 2017 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2015 Intervention effect 2017 Patient health service utilization 2018 Patient health service utilization 2015 Medical treatment status	Medical treatment status	metabolic diseases Endocrine, nutritional and metabolic diseases	system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the digestive system Diseases of the digestive system Diseases of the genitourinary system Diseases of the genitourinary system	Diabetes, non-diabetic kidney diseases diabetes, Renal Replacement Therapy diabetes, overt proteinuria, moderately reduces deGFR Type 2 Diabetes, liver disease diabetes, osteoporosis Diabetes, urinary tract infection (UTI) dyslipidemia hyperlipidaemia (ICD-10: E78)	Others Others Others Others Others Others Others	age ≥18 years aged 40-74 years ≥18 years of age aged 50 years or older aged ≥40 years aged 20-74 years aged ≥20 years
Ono 2020 Sugiyama 2015 2019 Chang 2020 Sato 2016 Takeuchi 2021 Nozawa 2021 Umeda 2019 Wake 2018	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in Estimated Glomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cohort Study Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal Analysis Using Medical Claims and Health Checkup Data Overt Proteinuria, Moderately Reduced eGFR and Their Combination Are Predictive of Severe Diabetic Retinopathy or Diabetic Macular Edema in Diabetes Incidence and causes of mildly to moderately elevated aminotransferase in Japanese Incidence and causes of mildly to moderately elevated aminotransferase in Japanese Fracture risk and healthcare resource utilization and costs among osteoporsis patients with type 2 diabetes Sodium:glucose cotransporter-2 inhibitors and the risk of urinary tract infection among diabetic patients in Japan: Target trial emulation using a nationwide administrative Claims database Medication Adherence/Persistence and Demographics of Japanese Dyslipidemia Patients Medication Adherence/Persistence and Demographics of Japanese Dyslipidemia Patients Ott in Japan Low-Density Lipoprotein Cholesterol Goal Attainment Rates by Initial Statin Mconterary Among Patients With Dyslipidemia and High Cardiovacular Risk in Japan -	MDC HI/LSEHS MDC tDV DD DB thers thers thers	societies located in the Japanese prefectures of Fukuoka and Shizuoka NHI MinaCare the IQVIA National Prescription Audit database	Nationwide Municipality Nationwide Nationwide Nationwide Nationwide Nationwide	and Shizuok a a large city within the	2005 2012 2008 2010 2008 2010 2008 2014 2015 2015	2016 Quality of care 2017 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases 2018 Intervention effect 2017 Patient health service utilization 2018 Patient health service utilization	Medical treatment status Health economics Patient health service utilization	matabolic diseases Endocrine, nutritional and metabolic diseases	system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the digestive system Diseases of the digestive system Diseases of the genitourinary system Diseases of the genitourinary system	Diabetes, non-diabetic kidney diseases diabetes, Renal Replacement Therapy diabetes, overt proteinuria, moderately reduces eGFR Type 2 Diabetes, liver disease diabetes, osteoporosis Diabetes, urinary tract infection (UTI) dyslipidemia dyslipidemia	Others Others Others Others Others Others Others Others	age ≥18 years aged 40-74 years ≥18 years of age aged 50 years or older aged ≥40 years aged 2-74 years aged ≥20 years aged ≥20 years
Ono 2020 Suglyama 2015 Chang 2020 Sato 2016 Takeuchi 2021 Umeda 2019 Umeda 2018 Umeda 2018	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in Estimated Giomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cohort Study Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal Analysis Using Medical Claims and Health Checkup Data Overt Proteinuria, Moderately Reduced sGFR and Their Combination Are Predictive of Severe Diabetic Retinopathy or Diabetic Macular Edems in Diabetes Incidence and causes of mildly to moderately alevated aminotransferase in Japanese Tracture risk and healthare resource utilization and costs among ostoporosis patients with type 2 diabetes Sodium glucose octransporter-2 Inhibitors and the risk of urinary tract infection among Nutri Andysing Medical Claims database Sodium glucose octransporter-2 Inhibitors and the risk of urinary tract infection among Nutri Andysing Medical Claims database Sodium glucose octransporter-2 Inhibitors and the risk of urinary tract infection among Nutri Antidynilgidemic Drug Prescriptions and Lipid Control Status After Unfavorable Annual Antidynilgidemic Drug Prescriptions and Lipid Control Status After Unfavorable Annual Nutri Antidynilgidemic Drug Prescriptions and Lipid Control Status After Unfavorable Annual Nutri Antidynilgidemic Drug Prescriptions and Lipid Control Status After Unfavorable Annual Nutri Antidynilgidemic Drug Prescriptions and Lipid Control Status After Unfavorable Annual Nutri Antidynilgidemic Drug Prescriptions and Lipid Control Status After Unfavorable Annual Nutri Antidynilgidemic Drug Prescriptions and Lipid Control Status After Unfavorable Annual Nutri Antidynilgidemic Drug Prescriptions and Lipid Control Status After Unfavorable Annual Nutri Prestment patterns In hyperlipidaemia patients based on administrative claim database Nutri Abternee/Persistence and Demographics of Japanese Dyslipidemia Patients Of In Japan Low-Density Lipoprotein Cholesterol Goal Attainment Rates by Initial Statin Monotherapy An	MDC HI/LSEHS MDC IDV IDV DB thers thers thers IDV	societies located in the Japanese prefectures of Fukuoka and Shizuoka NHI MinaCare the IQVIA National Prescription Audit database	Nationwide Municipality Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide	and Shizuok a a large city within the	2005 2012 2008 2010 2008 2010 2014 2015 2014 2012	2016 Quality of care 2017 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases 2018 Data epidemiology, course of diseases 2013 Clinical epidemiology, course of diseases 2013 Clinical epidemiology, course of diseases 2013 Dinical epidemiology, course of diseases 2015 Intervention effect 2017 Patient health service utilization 2018 Patient health service utilization 2015 Medical treatment status 2016 Medical treatment status	Medical treatment status Health economics Patient health service utilization Quality of care	metabolic diseases Endocrine, nutritional and metabolic diseases	system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the digestive system Diseases of the digestive system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the circulatory system	Diabetes, non-diabetic kidney diseases diabetes, Renal Replacement Therapy diabetes, overt proteinuria, moderately reduce eGFR Type 2 Diabetes, liver disease diabetes, osteoporosis Diabetes, urinary tract infection (UTI) dyslipidemia dyslipidemia hyperlipidaemia (ICD-10: E78) Dyslipidemia and High Cardiovascular Risk	Others Others Others Others Others Others Others Others Others	age ≥18 years aged 40-74 years ≥18 years of age aged 50 years or older aged ≥40 years aged 20-74 years aged 20-74 years aged ≥18 years aged ≥18 years aged ≥20 years
Ono 2020 Sugiyama 2015 2019 Chang 2020 Sato 2016 Takeuchi 2021 Nozawa 2021 Umeda 2019 Wake 2018	development of diabetic kidney disease? Association Between Routine Nephropathy Monitoring and Subsequent Change in Estimated Glomerular Filtration Rate in Patients With Diabetes Mellitus: A Japanese Non-Elderly Cohort Study Risk-Stratified Incidence of Renal Replacement Therapy Initiation: A Longitudinal Analysis Using Medical Claims and Health Checkup Data Overt Proteinuria, Moderately Reduced eGFR and Their Combination Are Predictive of Severe Diabetic Retinopathy or Diabetic Macular Edema in Diabetes Incidence and causes of mildly to moderately elevated aminotransferase in Japanese Incidence and causes of mildly to moderately elevated aminotransferase in Japanese Fracture risk and healthcare resource utilization and costs among osteoporsis patients with type 2 diabetes Sodium:glucose cotransporter-2 inhibitors and the risk of urinary tract infection among diabetic patients in Japan: Target trial emulation using a nationwide administrative Claims database Medication Adherence/Persistence and Demographics of Japanese Dyslipidemia Patients Medication Adherence/Persistence and Demographics of Japanese Dyslipidemia Patients Ott in Japan Low-Density Lipoprotein Cholesterol Goal Attainment Rates by Initial Statin Mconterary Among Patients With Dyslipidemia and High Cardiovacular Risk in Japan -	MDC HI/LSEHS MDC IDV IDV DB thers thers thers IDV	societies located in the Japanese prefectures of Fukuoka and Shizuoka NHI MinaCare the IQVIA National Prescription Audit database	Nationwide Municipality Nationwide Nationwide Nationwide Nationwide Nationwide	and Shizuok a a large city within the	2005 2012 2008 2010 2008 2010 2008 2014 2015 2014	2016 Quality of care 2017 Clinical epidemiology, course of diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2015 Intervention effect 2017 Patient health service utilization 2018 Patient health service utilization 2015 Medical treatment status	Medical treatment status Health economics Patient health service utilization Quality of care	metabolic diseases Endocrine, nutritional and metabolic diseases	system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the digestive system Diseases of the digestive system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the circulatory system	Diabetes, non-diabetic kidney diseases diabetes, Renal Replacement Therapy diabetes, overt proteinuria, moderately reduces deGFR Type 2 Diabetes, liver disease diabetes, osteoporosis Diabetes, urinary tract infection (UTI) dyslipidemia hyperlipidaemia (ICD-10: E78)	Others Others Others Others Others Others Others Others	age ≥18 years aged 40-74 years ≥18 years of age aged 50 years or older aged ≥40 years aged 2-74 years aged ≥20 years aged ≥20 years

Koto 2020	Real-world treatment of gout and asymptomatic hyperuricemia: A cross-sectional study of Japanese health insurance claims data	JMDC		Nationwide		2016	2017 Clinical epidemiology, course of diseases	Medical treatment status	Endocrine, nutritional and metabolic diseases	Diseases of the musculoskeletal system and connective tissue	gout and asymptomatic hyperuricemia	Others	Age 18-65 years
Hakoda 2019	Increasing trend of asymptomatic hyperuricemia under treatment with urate-lowering	JMDC		Nationwide		2010	2014 Clinical epidemiology, course of		Endocrine, nutritional and metabolic diseases	Diseases of the musculoskeletal	gout and asymptomatic hyperuricemia		
Teramoto 201	drugs in Japan 8 Treatment Patterns and Lipid Profile in Patients with Familial Hypercholesterolemia in	MDV		Nationwide		2013	diseases 2013 Medical treatment status		Endocrine, nutritional and	system and connective tissue	familial hypercholesterolemia	Others	aged ≥20 years
Sako 2017	Japan Hospitalization with hypoglycemia in patients without diabetes mellitus: A retrospective	DPC		Nationwide		2008	2013 Clinical epidemiology, course of		metabolic diseases Endocrine, nutritional and		hypoglycemia	Others	aged ≥15 years
Kanda 2020	study using a national inpatient database in Japan, 2008-2012	MDV		Nationwide		2008	diseases	Health economics	metabolic diseases			Others	
Kanda 2020	Clinical and Economic Burden of Hyperkalemia: A Nationwide Hospital-Based Cohort Study in Japan	MDV		Nationwide		2008	2018 Clinical epidemiology, course of diseases	Health economics	Endocrine, nutritional and metabolic diseases		hyperkalemia	Others	aged ≥18 years
Kashihara 2019	Hyperkalemia in Real-World Patients Under Continuous Medical Care in Japan	MDV		Nationwide		2008	2017 Clinical epidemiology, course of diseases	Medical treatment status	Endocrine, nutritional and metabolic diseases		hyperkalemia	Others	aged ≥18 years
Higa 2020	A Retrospective, Cross-Sectional Study on the Prevalence of Hyperuricemia Using a	Others	MinaCare	Nationwide		2010	2014 Clinical epidemiology, course of		Endocrine, nutritional and		Hyperuricemia		
Tsujimura	Japanese Healthcare Database Predictors of hyperglycaemic individuals who do not follow up with physicians after	JMDC		Nationwide		2005	diseases 2010 Patient health service utilization	Clinical epidemiology, course of	metabolic diseases Endocrine, nutritional and		hyperglycaemic	Others	aged 20 to 68 years
2014 Tatebe 2020	screening in Japan: a cohort study Hypoglycemia associated with pivalate-conjugated antibiotics in young children: A	JMDC		Nationwide		2011	2013 Intervention effect	diseases	metabolic diseases Endocrine, nutritional and		Hypoglycemia (PCA-induced hypoglycemia)	Children	1month-5year of age
Tatebe 2020	retrospective study using a medical and pharmacy claims database in Japan	JMDC		Nationwide		2011	2013 Intervention enect		metabolic diseases		Hypogiycenna (PCA-induced hypogiycenna)	Children	Infontil-Syear of age
Hakoda 2013	[A cause for age-dependent differences in the frequency of hyperuricemia-An analysis utilizing a database of health insurance claims]	JMDC		Nationwide		2008	2008 Clinical epidemiology, course of diseases		Endocrine, nutritional and metabolic diseases		hyperuricemia	Others	aged ≥20 years
Momo 2019	Risk factors affecting the failed low-density lipoprotein level achievement rate in	JMDC		Nationwide		2004	2016 Medical treatment status	Patient health service utilization	Endocrine, nutritional and		low-density lipoprotein (LDL)	Others	aged 18-60 years
Ibayashi 2020	working-age male population at high cardiovascular risk [A descriptive study of mitochondrial diseases using DPC data]*	DPC	DPC Research	Nationwide		2014	2015 Clinical epidemiology, course (of	metabolic diseases Endocrine, nutritional and	Diseases of the nervous system	mitochondrial disease		age group
Nishikawa	Combined Associations of Body Mass Index and Metabolic Health Status on Medical and	Others	Institute bealth insurance	Nationwide		2010	disease 2013 Health economics		metabolic diseases Endocrine, nutritional and		body mass index (BMI) levels and metabolic		
2020	Combined Associations of Body Mass index and Metabolic Health Status on Medical and Dental Care Days and Costs in Japanese Male Employees: A 4-Year Follow-Up Study	Others	claims data; the Kobe			2010	2013 Health economics		metabolic diseases		dysfunction		
			Steel Health Insurance Association										
Okamoto 2013	3 Effects of health guidance on outpatient and pharmacy expenditures: a disease- and drug-specific 3-year observational study using propensity-score matching	Others	a health insurance society	Others	a health insuranc	2008	2012 Health economics	Intervention effect	Endocrine, nutritional and metabolic diseases		metabolic syndrome	Others	age ≥40 years
					e								
					society in the								
					manufac turing								
Funayama	[[How are the effects of long-term care prevention and health guidance evaluated?] The	JHIA		Municipality	Yokoha	2012	2013 Health economics		Endocrine, nutritional and		abdominal circumference	Others	35-74 years old
2016	relationship between waist circumference and average annual medical expenses using specific health checkup results and claim data]*				ma city				metabolic diseases				
Okamoto 2013	Evaluation of the health check up and guidance program through linkage with health	NHI/LSEHS	National Health	Municipality	Mishima	2008	2012 Intervention effect		Endocrine, nutritional and		metabolic syndrome	Others	aged 40 to 74
	insurance claims]		Insurance, Health Care System for the		City				metabolic diseases				
Hurst 2018		JMDC	Late Elderly			2008			Endocrine, nutritional and				
Hurst 2018	Effects of changes in eating speed on obesity in patients with diabetes: a secondary analysis of longitudinal health check-up data	IMDC		Nationwide		2008	2013 Clinical epidemiology, course of diseases		Endocrine, nutritional and metabolic diseases		obesity		
Takeuchi 2010	 [Relationship between community-based dental health programs and health care costs for the metabolic syndrome] 	NHI/LSEHS	NHI	Prefecture	Okayam	1997	2007 Health economics	Health policy evaluation and utilization	Endocrine, nutritional and metabolic diseases		metabolic syndrome	Others	age ≥40 years
Fujita 2018	Medical costs attributable to overweight and obesity in Japanese individuals	NHI/LSEHS	NHI	Municipality		2012	2016 Health economics	different	Endocrine, nutritional and		overweight and obesity	Others	aged 40-69 years
Sairenchi 201	7 Impact and attribute of each obesity-related cardiovascular risk factor in combination	NHI/LSEHS	NHI	Prefecture	City Ibaraki	2009	2013 Health economics		metabolic diseases Endocrine, nutritional and	Diseases of the circulatory system	abdominal obesity, cardiovascular risk	Others	aged 40–75 years
	with abdominal obesity on total health expenditures in adult Japanese National Health insurance beneficiaries: The Ibaraki Prefectural health study								metabolic diseases				
Itoh 2021	Metabolically Healthy Obesity and the Risk of Cardiovascular Disease in the General Population - Analysis of a Nationwide Epidemiological Database	JMDC		Nationwide		2005	2018 Clinical epidemiology, course of diseases		Endocrine, nutritional and metabolic diseases	Diseases of the circulatory system	metabolic disorders, cardiovascular disease	Others	aged ≥20 years
Hattori 2020	Population - Analysis of a NationWide Epidemiological Database Pituitary surgery's epidemiology using a national inpatient database in Japan	DPC		Nationwide		2010	2016 Medical treatment statu	s Intervention effe	ct Endocrine, nutritional and	Others	pituitary surgery		age group
Senda 2020	Early administration of glucocorticoid for thyroid storm: analysis of a national	DPC		Nationwide		2013	2017 Intervention effect		metabolic diseases Endocrine, nutritional and		thyroid storm	Others	age ≥16 years
	administrative database								metabolic diseases				
Sasabuchi 2020	A survey on total parenteral nutrition in 55,000 hospitalized patients: Retrospective cohort study using a medical claims database	MDV		Nationwide		2009	2018 Clinical epidemiology, course of diseases		Endocrine, nutritional and metabolic diseases	Others	underfeeding, total parenteral nutrition	Others	aged ≥18 years
Ogawa 2019	Malnutrition-Related Health Care Cost in Japan: An Analysis of Health Insurance Claims	NHI/LSEHS	the community based	Nationwide		2013	2016 Clinical epidemiology, course of diseases	Health economics	Endocrine, nutritional and	Others	strictly diagnosed malnutrition and disease- associated malnutrition		all ages
	Data		health insurance and the Medical Care		municip alities		diseases		metabolic diseases		associated mainutrition		
			System for the Advanced Elderly		througho ut Japan								
			Auvanced Elderly		ut Japan								
Itoh 2017	Vitamin D-Deficient Rickets in Japan	JMDC		Nationwide		2005	2014 Clinical epidemiology, course of diseases		Endocrine, nutritional and metabolic diseases		vitamin D deficiency or vitamin D-deficient rickets	Children	aged 0 to 15 years
	havioral and Neurodevelopmental disorders (F00-F99)												
Obara 2015	Prescription of drugs for children with attention-deficit/hyperactivity disorder(ADHD) in Japan: a study based on health insurance claims data	JMDC		Nationwide		2005	2010 Medical treatment status	Health policy evaluation and utilization	Mental, Behavioral and Neurodevelopmental disorders		attention deficit hyperactivity disorder (ADHD)	Children	aged 2 to 17 years
Yoshida 2020	Drug Prescriptions for Children With ADHD in Japan: A Study Based on Health Insurance Claims Data Between 2005 and 2015	JMDC		Nationwide		2005	2015 Medical treatment statu	s	Mental, Behavioral and Neurodevelopmental disorders		ADHD (ICD-10 code: F900)	Children	aged 1 to 17 years
				Nationwide		2012	2015 Medical treatment statu	s Health economi	cs Mental, Behavioral and		attention-deficit/hyperactivity disorder (ADHD) Others	at least 18 years of ag
Imagawa 2018	3 Treatment patterns, health care resource utilization, and costs in Japanese adults with	IMDC		Nationwide									
Imagawa 2018 Nakamura	3 Treatment patterns, health care resource utilization, and costs in Japanese adults with attention-deficit hyperactivity disorder treated with atomoxetine Body mass index and in-hospital mortality in anorexia nervosa: data from the Japanese			Nationwide		2010	2010 Clinical epidemiology, course	of	Neurodevelopmental disorders Mental, Behavioral and		anorexia nervosa		

Yamamoto-														
Sasaki 2020	Association between antidepressant use during pregnancy and congenital anomalies in children: A retrospective cohort study based on Japanese claims data	JMDC		Nationwide		2005	2014 Interve	ention effect		Mental, Behavioral and Neurodevelopmental disorders	Congenital malformations, deformations and chromosomal	congenital anomaly, antidepressants		
Yamamoto-	Association between antidepressant use during pregnancy and autism spectrum disorder	IMDC		Nationwide		2005	2014 Interve	ention effect		Mental, Behavioral and	abnormalities Pregnancy, childbirth and the	antidepressant use during pregnancy and		
	in children: a retrospective cohort study based on Japanese claims data	1000		Hationinide		2000	Lori maria			Neurodevelopmental disorders	puerperium	autism spectrum disorder in children		
shikawa 2020	Antidepressant prescriptions for prenatal and postpartum women in Japan: A health administrative database study	JMDC		Nationwide		2005	2016	Medical treatment status		Mental, Behavioral and Neurodevelopmental disorders	Pregnancy, childbirth and the puerperium	antidepressant prescriptions to prenatal and postpartum women		
Ogino 2020	administrative database study Impact of class-level labelling change on prescriptions of antidepressants for	JMDC	Vital Statistics	Nationwide		2005	2013 Health	policy evaluation and		Mental, Behavioral and	Others	antidepressants, suicide	Others	aged 10 to 24 years
-0	adolescents: An interrupted time-series study using a health insurance claims database in Japan, 2005-2013		records				utilizat			Neurodevelopmental disorders				(target population)
Su 2020	Incidence, prevalence and prescription patterns of antipsychotic medications use in Asia	JMDC		Nationwide	Taiwan,	2007	2014	Medical treatment status	Socioeconomic comparis	on Mental, Behavioral and		antipsychotic medications use	Others	age<65
	and US: A cross-nation comparison with common data model				Hong Kong,					Neurodevelopmental disorders				
					Japan,									
					and the									
					United States									
Kochi 2017	Trends in antipsychotic prescriptions for Japanese outpatients during 2006-2012: a	Others	claims data from	Nationwide	States	2006	2012	Medical treatment status		Mental, Behavioral and		antipsychotic prescriptions	Others	18-64 years old, ≥65
	descriptive epidemiological study		1038 community							Neurodevelopmental disorders				years old
Kurada 2010	Antipumbation and selected (astronomenation of the demonstration of differences	NHI/LSEHS	pharmacies	Municipality		2012	2013	Medical treatment status		Mental, Behavioral and	Diseases of the nervous system	antipsychotics among older adults with	014	7E (6E to 7
Kuroda 2019	Antipsychotic use and related factors among people with dementia aged 75 years or older in Japan: A comprehensive population-based estimation using medical and long-	NHI/LSEHS	medical and LTC data	Municipality	a middle-	2012	2013	Medical treatment status		Mental, Behavioral and Neurodevelopmental disorders	Diseases of the nervous system	antipsychotics among older adults with dementia	Older persons	over 75 years (65 to 7 vears)
	term care data				sized									,,
					suburba									
					n city in the									
					tne Tokyo									
					metropo									
					litan									
Okumura 2018	3 Glucose and Prolactin Monitoring in Children and Adolescents Initiating Antipsychotic Therapy	NDB		Nationwide		2014	2015 Medica	al treatment status		Mental, Behavioral and Neurodevelopmental disorders	Endocrine, nutritional and metabolic diseases	antipsychotics, diabetes	Children	aged ≤ 18 years
Takeuchi 2015	5 Atypical Antipsychotics and the Risk of Hyperlipidemia: A Sequence Symmetry Analysis	JMDC		Nationwide		2005	2013	Intervention effect		Mental, Behavioral and	Endocrine, nutritional and	atypical antipsychotic medication,		
										Neurodevelopmental disorders	metabolic diseases	hyperlipidemia		
Takahashi	Factors associated with high-dose antipsychotic prescriptions in outpatients with	NHI/LSEHS		Prefecture	a single	2014	2015	Medical treatment status		Mental, Behavioral and		high-dose antipsychotic prescriptions in	Others	aged 18 years and old
2020	schizophrenia: An analysis of claims data from a Japanese prefecture		Insurance and Long Life Medical Care		prefectu re					Neurodevelopmental disorders		outpatients with schizophrenia		
			System		16									
Qiu 2018	Antipsychotic polypharmacy in the treatment of schizophrenia in China and Japan	JMDC		Nationwide	China	2010	2014	Medical treatment status	Socioeconomic comparis	on Mental, Behavioral and		schizophrenia (antipsychotic polypharmacy)		
					and Japan					Neurodevelopmental disorders				
Yokoyama	Association Between Antipsychotics and Osteoporosis Based on Real-World Data	JMDC	FAERS	Nationwide	Japan	2005	2017	Intervention effect		Mental, Behavioral and	Diseases of the musculoskeletal	antipsychotic use and onset of osteoporosis		
2020 Inoue 2021	Real-World Treatment Patterns and Adherence to Oral Medication Among Patients with	IMDC		Nationwide		2013	2018	Medical treatment status	Patient health service utilization	Neurodevelopmental disorders	system and connective tissue	bipolar disorder (F30 or 31)		
moue 2021	Bipolar Disorders: A Retrospective, Observational Study Using a Healthcare Claims	JMDC		Nationwide		2013	2010	Medical treatment status	Patient nearth service utilization	Neurodevelopmental disorders		bipolar disorder (PS0 or S1)		
	Database													
Shinjo 2019	Risk factors for early unplanned readmission in patients with bipolar disorder: A	DPC		Nationwide		2012	2014	Medical treatment status	Health policy evaluation a	nd Mental, Behavioral and		bipolar patients (ICD-10; F31)	Others	aged ≥15 years
Ning 2014	retrospective observational study The length of stay for hospitalized natients with dementia in Eukuoka Prefecture : A	NHI/LSEHS	Fukuoka National	Prefecture	Fukuoka	2009	2010 Medica	al treatment status		on Neurodevelopmental disorders Mental, Behavioral and	Diseases of the nervous system	dementia		
Ning 2014	retrospective observational study [The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crosssectional study]	NHI/LSEHS	Fukuoka National Health Insurance	Prefecture	Fukuoka	2009	2010 Medica	al treatment status	utilization Health policy evaluation and utilization	on Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders	Diseases of the nervous system	dementia		
	[The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crosssectional study]		Health Insurance Organization		Fukuoka				Health policy evaluation and	Mental, Behavioral and Neurodevelopmental disorders				
	[The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crosssectional study] Dementia and patient outcomes after hip surgery in older patients: A retrospective	NHI/LSEHS	Health Insurance Organization Diagnosis Procedure		Fukuoka	2009 2016	2017 Clinica	l epidemiology, course of	Health policy evaluation and	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and	Diseases of the nervous system Diseases of the nervous system	dementia Dementia (after hip surgery)	Older persons	aged 65 or older
	[The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crosssectional study]		Health Insurance Organization Diagnosis Procedure Combination	Nationwide	Fukuoka			l epidemiology, course of	Health policy evaluation and	Mental, Behavioral and Neurodevelopmental disorders			Older persons	aged 65 or older
	[The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crosssectional study] Dementia and patient outcomes after hip surgery in older patients: A retrospective		Health Insurance Organization Diagnosis Procedure	Nationwide	Fukuoka		2017 Clinica	l epidemiology, course of	Health policy evaluation and	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and			Older persons	aged 65 or older
	[The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crosssectional study] Dementia and patient outcomes after hip surgery in older patients: A retrospective		Health Insurance Organization Diagnosis Procedure Combination database and reports	Nationwide	Fukuoka		2017 Clinica	l epidemiology, course of	Health policy evaluation and	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and			Older persons	aged 65 or older
Morioka 2021	[The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crosssectional study] Dementia and patient outcomes after hip surgery in older patients: A retrospective observational study using nationwide administrative data in Japan	DPC	Health Insurance Organization Diagnosis Procedure Combination database and reports of the medical functions of hospital beds	Nationwide		2016	2017 Clinica diseas	l epidemiology, course of es	Health policy evaluation and	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders	Diseases of the nervous system	Dementia (after hip surgery)		-
Morioka 2021	[The length of stay for hospitalized patients with dementia in Fukueka Prefecture : A crosssectional study] Dementia and patient outcomes after hip surgery in older patients: A retrospective observational study using nationwide administrative data in Japan Predictors of New Dementia Diagnoses in Elderly Individuals: A Retrospective Cohort		Health Insurance Organization Diagnosis Procedure Combination database and reports of the medical functions of hospital beds administrative claims	Nationwide	Fukuoka		2017 Clinica diseas 2016 Clinica	l epidemiology, course of es l epidemiology, course of	Health policy evaluation and	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and				aged 65 or older aged ≥75 years
Morioka 2021	[The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crosssectional study] Dementia and patient outcomes after hip surgery in older patients: A retrospective observational study using nationwide administrative data in Japan	DPC	Health Insurance Organization Diagnosis Procedure Combination database and reports of the medical functions of hospital beds	Nationwide		2016	2017 Clinica diseas	l epidemiology, course of es l epidemiology, course of	Health policy evaluation and	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders	Diseases of the nervous system	Dementia (after hip surgery)		-
Morioka 2021 Nakaoku 2021	[The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crosssectional study] Dementia and patient outcomes after hip surgary in older patients: A retrospective observational study using nationwide administrative data in Japan Predictors of New Dementia Diagnoses in Elderly Individuals: A Retrospective Cohort Study Based on Prefecture-Wide Claims Data in Japan	DPC NHI/LSEHS	Health Insurance Organization Diagnosis Procedure Combination database and reports of the medical functions of hospital beds administrative claims database of the	Nationwide		2016	2017 Clinica diseas 2016 Clinica diseas	l epidemiology, course of es l epidemiology, course of es	Health policy evaluation and	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders	Diseases of the nervous system	Dementia (after hip surgery) dementia	Older persons	aged ≥75 years
Morioka 2021 Nakaoku 2021	[The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crosssectional study] Dementia and patient outcomes after hip surgery in older patients: A retrospective observational study using nationwide administrative data in Japan Predictors of New Dementia Diagnoses in Elderly Individuals: A Retrospective Cohort Study Based on Prefecture-Wide Claims Data in Japan Structure and process of dementia care and patient outcomes after hip surgery in elderly	DPC NHI/LSEHS	Health Insurance Organization Diagnosis Procedure Combination database and reports of the medical functions of hospital beds administrative claims database of the medical care system	Nationwide		2016	2017 Clinica diseas 2016 Clinica diseas 2017 Health	I epidemiology, course of es I epidemiology, course of es policy evaluation and	Health policy evaluation and	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and	Diseases of the nervous system	Dementia (after hip surgery)	Older persons	aged ≥75 years
Morioka 2021 Nakaoku 2021 Morioka 2020	The length of stay for hospitalized patients with dementia in Fukueka Prefecture : A crossectional study] Dementia and patient outcomes after hip surgery in older patients: A retrospective observational study using nationwide administrative data in Japan Predictors of New Dementia Diagnoses in Elderly Individuals: A Retrospective Cohort Study Based on Prefecture-Wide Claims Data in Japan Structure and process of dementia care and patient outcomes after hip surgery in elderly people with dementia: A retrospective observational study in Japan	DPC NHI/LSEHS	Health Insurance Organization Diagnosis Procedure Combination database and reports of the medical functions of hospital beds administrative claims database of the medical care system	Nationwide		2016	2017 Clinica diseas 2016 Clinica diseas	I epidemiology, course of es I epidemiology, course of es policy evaluation and ion	Health policy evaluation and	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders	Diseases of the nervous system	Dementia (after hip surgery) dementia	Older persons Older persons	aged ≥75 years aged 65 years or older
Morioka 2021 Nakaoku 2021 Morioka 2020	[The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crosssectional study] Dementia and patient outcomes after hip surgery in older patients: A retrospective observational study using nationwide administrative data in Japan Predictors of New Dementia Diagnoses in Elderly Individuals: A Retrospective Cohort Study Based on Prefecture-Wide Claims Data in Japan Structure and process of dementia care and patient outcomes after hip surgery in elderly people with dementia: A retrospective dementia study in Japan [Regional differences in dementia see from health Insurance claims data: A study on all odi-oid poople	DPC NHI/LSEHS / DPC NHI/LSEHS	Health Insurance Organization Diagnosis Procedure Combination database and reports of the medical functions of hospital beds administrative claims database of the medical area system for the elderly	Nationwide Prefecture Nationwide	Niigata	2016 2012 2016	2017 Clinica diseas 2016 Clinica diseas 2017 Health utilizat	I epidemiology, course of es I epidemiology, course of es policy evaluation and ion	Health policy evaluation and utilization	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders	Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system	Dementia (after hip surgery) dementia dementia (underwent hip surgeries)	Older persons Older persons	aged ≥75 years aged 65 years or older
Morioka 2021 Nakaoku 2021 Morioka 2020	The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crosssectional study] Dementia and patient outcomes after hip surgary in older patients: A retrospective observational study using nationwide administrative data in Japan Predictors of New Dementia Diagnoses in Elderly Individuals: A Retrospective Cohort Study Based on Prefecture-Wide Claims Data in Japan Structure and process of dementia care and patient outcomes after hip surgery in elderly people with dementia: A retrospective Observational study in Japan [Regional differences in dementia seen from health insurance claims data: A study on all old-old poople in Nigitat Prefecture]* Surveillance of Inst-Generation II-Anthitamine Use for Older Patients with Dementia	DPC NHI/LSEHS / DPC NHI/LSEHS	Health Insurance Organization Diagnosis Procedure Combination database and reports of the medical functions of hospital beds administrative claims database of the medical care system for the elderly Fukuoka Late Elders'	Nationwide ; Prefecture Nationwide Prefecture	Niigata	2016 2012 2016 2012	2017 Clinica diseas 2016 Clinica diseas 2017 Health utilizat 2016 Health	I epidemiology, course of es I epidemiology, course of es policy evaluation and ion	Health policy evaluation and utilization	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders	Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system	Dementia (after hip surgery) dementia dementia (underwent hip surgeries)	Older persons Older persons Older persons	aged ≥75 years aged 65 years or older 75 years old and older
Morioka 2021 Nakaoku 2021 Morioka 2020 Tashiro 2020 Maeda 2018	The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crosssectional study] Dementia and patient outcomes after hip surgery in older patients: A retrospective observational study using nationwide administrative data in Japan Predictors of New Dementia Diagnoses in Elderly Individuals: A Retrospective Cohort Study Based on Prefecture-Wide Claims Data in Japan Structure and process of dementia care and patient outcomes after hip surgery in elderly people with dementia: A retrospective observational study in Japan Retrospective cohort study on all old-old people in Niigtat Prefecture]* Surveillance of First-Generation H1-Anthistamine Use for Older Patients with Dementa in Japan: A Retrospective Ohort Study	DPC NHI/LSEHS NHI/LSEHS NHI/LSEHS	Health Insurance Organization Diagnosis Procedure Combination database and reports of the medical functions of hospital beds administrative claims for the eldeny Fukuoka Late Elders' Health Insurance	Nationwide ; Prefecture Prefecture Prefecture	Niigata Niigata Fukuoka	2016 2012 2016 2012 2012 2010	2017 Clinica diseas 2016 Clinica diseas 2017 Health utilizat 2016 Health 2013 Medic	I epidemiology, course of es I epidemiology, course of es policy evaluation and ion economics al treatment status	Health policy evaluation and utilization Socioeconomic comparison	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders	Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system	Dementia (after hip surgery) dementia dementia (underwent hip surgeries) dementia dementia	Older persons Older persons Older persons Older persons	aged ≥75 years aged 65 years or older 75 years old and older aged 75 years or older
Morioka 2021 Nakaoku 2021 Morioka 2020 Tashiro 2020 Maeda 2018	The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crosssectional study] Dementia and patient outcomes after hip surgary in older patients: A retrospective observational study using nationwide administrative data in Japan Predictors of New Dementia Diagnoses in Elderly Individuals: A Retrospective Cohort Study Based on Prefecture-Wide Claims Data in Japan Structure and process of dementia care and patient outcomes after hip surgery in elderly people with dementia: A retrospective Observational study in Japan [Regional differences in dementia seen from health insurance claims data: A study on all old-old poople in Nigitat Prefecture]* Surveillance of Inst-Generation II-Anthitamine Use for Older Patients with Dementia	DPC NHI/LSEHS / DPC NHI/LSEHS	Health Insurance Organization Diagnosis Procedure Combination database and reports of the medical functions of hospital beds administrative claims database of the medical care system for the elderly Fukuoka Late Elders'	Nationwide ; Prefecture Prefecture Prefecture	Niigata	2016 2012 2016 2012 2012 2010	2017 Clinica diseas 2016 Clinica diseas 2017 Health utilizat 2016 Health 2013 Medic	I epidemiology, course of es I epidemiology, course of es policy evaluation and ion economics	Health policy evaluation and utilization	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders	Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system	Dementia (after hip surgery) dementia dementia (underwent hip surgeries) dementia	Older persons Older persons Older persons Older persons	-
Morioka 2021 Nakaoku 2021 Morioka 2020 Tashiro 2020 Maeda 2018	IThe length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crossectional study] Dementia and patient outcomes after hip surgery in older patients: A retrospective observational study using nationwide administrative data in Japan Predictors of New Dementia Diagnoses in Elderly Individuals: A Retrospective Cohort Study Based on Prefecture-Wide Claims Data in Japan Structure and process of dementia care and patient outcomes after hip surgery in elderly people with dementia: A retrospective observational study in Japan [Regional differences in dementia seen from health insurance claims data: A study on all did-old poople InRigita Prefecture!* Surveillance of First-Generation H1-Antihistamine Use for Older Patients with Dementia in Japan: R Retrospective Cohort Study	DPC NHI/LSEHS NHI/LSEHS NHI/LSEHS	Health Insurance Organization Diagnosis Procedure Combination database and reports of the medical functions of hospital beds administrative claims database of the medical care system for the elderly Fukuoka Late Elders' Health Insurance	Nationwide ; Prefecture Prefecture Prefecture	Niigata Niigata Fukuoka	2016 2012 2016 2012 2012 2010	2017 Clinica diseas 2016 Clinica diseas 2017 Health utilizat 2016 Health 2013 Medic	I epidemiology, course of es I epidemiology, course of es policy evaluation and ion economics al treatment status	Health policy evaluation and utilization Socioeconomic comparison Health policy evaluation and	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders	Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system	Dementia (after hip surgery) dementia dementia (underwent hip surgeries) dementia dementia	Older persons Older persons Older persons Older persons	aged ≥75 years aged 65 years or older 75 years old and older aged 75 years or older
Morioka 2021 Nakaoku 2021 Morioka 2020 Tashiro 2020 Maeda 2018 Maeda 2018	The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crosssectional study] Dementia and patient outcomes after hip surgary in older patients: A retrospective observational study using nationwide administrative data in Japan Predictors of New Dementia Diagnoses in Elderly Individuals: A Retrospective Cohort Study Based on Prefecture-Wide Claims Data in Japan Structure and process of dementia care and patient outcomes after hip surgery in elderly people with dementia: A retrospective observational study in Japan [Regional differences in dementia seen from health insurance claims data: A study on all old-old people in Nigata Prefecture]* Surveillance of Insite-Generation M-Anthistamine Use for Older Patients with Dementia in Japan: A Retrospective Cohort Study Effects of gastrosomy fee schedule revision on artificial nutrition routes among older people with dementia in Japan: A time series observational study Thyroid function tests before prescribing anti-dementia drugs: a retrospective	DPC NHI/LSEHS NHI/LSEHS NHI/LSEHS	Health Insurance Organization Diagnosis Procedure Combination database and reports of the medical functions of hospital beds administrative claims database of the medical care system for the elderly Fukuoka Late Elders' Health Insurance	Nationwide ; Prefecture Prefecture Prefecture	Niigata Niigata Fukuoka	2016 2012 2016 2012 2012 2010	2017 Clinica diseas 2016 Clinica diseas 2017 Health 2017 Health 2016 Health 2018 Medica	I epidemiology, course of es I epidemiology, course of es policy evaluation and ion economics al treatment status	Health policy evaluation and utilization Socioeconomic comparison Health policy evaluation and	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and	Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system	Dementia (after hip surgery) dementia dementia (underwent hip surgeries) dementia dementia	Older persons Older persons Older persons Older persons Older persons	aged ≥75 years aged 65 years or older 75 years old and older aged 75 years or older aged ≥75 years or older
Morioka 2021 Nakaoku 2021 Morioka 2020 Tashiro 2020 Maeda 2018 Maeda 2018 Sakata 2018	The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crosssectional study] Dementia and patient outcomes after hip surgery in older patients: A retrospective observational study using nationwide administrative data in Japan Predictors of New Dementia Diagnoses in Elderly Individuals: A Retrospective Cohort Study Based on Prefecture-Wide Claims Data in Japan Structure and process of dementia care and patient outcomes after hip surgery in elderly people with dementia: A retrospective observational study in Japan Regional differences in dementia seen from health insurance claims data: A study on all old-old people in Niggata Prefecture]* Surveillance of First-Generation H1-Anthistamine Use for Older Patients with Dementia in Japan: A Retrospective Observational study Effects of gastrostomy fee schedule revision on artificial nutrition routes among older people with dementia in Japan: A time series observational study Thyroid function tests before prescribing anti-dementia drugs: a retrospective	DPC NHI/LSEHS / DPC NHI/LSEHS NHI/LSEHS NHI/LSEHS	Health Insurance Organization Diagnosis Procedure Combination database and reports of the medical functions of hospital beds administrative claims for the elderly Fukuoka Late Elders' Health Insurance	Nationwide Prefecture Prefecture Prefecture Prefecture Nationwide Nationwide	Niigata Niigata Fukuoka	2016 2012 2016 2016 2010 2010 2015	2017 Clinica diseas 2016 Clinica diseas 2017 Health utilizat 2016 Health 2013 Medic. 2016 Medica	I epidemiology, course of es es policy evaluation and ion economics al treatment status al treatment status	Health policy evaluation and utilization Socioeconomic comparison Health policy evaluation and utilization Quality of care	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders	Diseases of the nervous system	Dementia (after hip surgery) dementia dementia dementia dementia dementia dementia	Older persons Older persons Older persons Older persons Older persons	aged ≥75 years aged 65 years or older 75 years old and older aged 75 years or older aged 275 years or older aged 275 years or older aged 265.74 years
Morioka 2021 Nakaoku 2021 Morioka 2020 Tashiro 2020 Maeda 2018	I The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crossectional study] Dementia and patient outcomes after hip surgery in older patients: A retrospective observational study using nationwide administrative data in Japan Predictors of New Dementia Diagnoses in Elderly Individuals: A Retrospective Cohort Study Based on Prefecture-Wide Claims Data in Japan Structure and process of dementia care and patient outcomes after hip surgery in elderly people with dementia: A retrospective observational study in Japan Regional differences in dementia seen from health insurance claims data: A study on all ode-old people in Highat Prefecture)* Surveiliance of First-Generation H1-Antihistamine Use for Older Patients with Dementia in Japan: A Retrospective Cohort Study Effects of gastrostomy fee schedule revision on artificial nutrition routes among older people with dementia in Japan: A time series observational study Thyroid function tests before prescribing anti-dementia drugs: a retrospective observational study Thyroid function tests before prescribing anti-dementia drugs: a retrospective observational study	DPC NHI/LSEHS / DPC NHI/LSEHS NHI/LSEHS NHI/LSEHS	Health Insurance Organization Diagnosis Procedure Combination database and reports of the medical functions of hospital beds administrative claims database of the medical are system for the elderly Fukuoka Late Elders' Health Insurance Fukuoka Late Elders' Health Insurance	Nationwide Prefecture Prefecture Prefecture Prefecture Nationwide Nationwide	Niigata Niigata Fukuoka	2016 2012 2016 2012 2010 2010	2017 Clinica diseas 2016 Clinica diseas 2017 Health utilizat 2016 Health 2013 Medici 2016 Medici 2016 Medici 2016 Medici	epidemiology, course of es epidemiology, course of es policy evaluation and ion economics al treatment status al treatment status el pidemiology, course of	Health policy evaluation and utilization Socioeconomic comparison Health policy evaluation and utilization Quality of care Health policy evaluation and	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders	Diseases of the nervous system	Dementia (after hip surgery) dementia dementia (underwent hip surgeries) dementia dementia dementia	Older persons Older persons Older persons Older persons Older persons	aged ≥75 years aged 65 years or older 75 years old and older aged 75 years or older aged 275 years or older aged 275 years or with a specific disabilit aged 265 years
Morioka 2021 Nakaoku 2021 Tashiro 2020 Maeda 2018 Sakata 2018	The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crosssectional study] Dementia and patient outcomes after hip surgery in older patients: A retrospective observational study using nationwide administrative data in Japan Predictors of New Dementia Diagnoses in Elderly Individuals: A Retrospective Cohort Study Based on Prefecture-Wide Claims Data in Japan Structure and process of dementia care and patient outcomes after hip surgery in elderly people with dementia: A retrospective observational study in Japan Regional differences in dementia seen from health insurance claims data: A study on all old-old people in Niggata Prefecture]* Surveillance of First-Generation H1-Anthistamine Use for Older Patients with Dementia in Japan: A Retrospective Observational study Effects of gastrostomy fee schedule revision on artificial nutrition routes among older people with dementia in Japan: A time series observational study Thyroid function tests before prescribing anti-dementia drugs: a retrospective	DPC NHI/LSEHS / DPC NHI/LSEHS NHI/LSEHS NHI/LSEHS	Health Insurance Organization Diagnosis Procedure Combination database and reports of the medical functions of hospital beds administrative claims for the elderly Fukuoka Late Elders' Health Insurance	Nationwide Prefecture Prefecture Prefecture Prefecture Nationwide Nationwide	Niigata Niigata Fukuoka	2016 2012 2016 2016 2010 2010 2015	2017 Clinica diseas 2016 Clinica diseas 2017 Health utilizat 2016 Health 2013 Medic. 2016 Medica	epidemiology, course of es epidemiology, course of es policy evaluation and ion economics al treatment status al treatment status el pidemiology, course of	Health policy evaluation and utilization Socioeconomic comparison Health policy evaluation and utilization Quality of care	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders	Diseases of the nervous system	Dementia (after hip surgery) dementia dementia dementia dementia dementia dementia	Older persons Older persons Older persons Older persons Older persons	aged ≥75 years aged 65 years or older 75 years old and older aged 75 years or older aged 275 years or older aged 275 years or with a specific disabilit aged 265 years
Morioka 2021 Nakaoku 2021 Tashiro 2020 Maeda 2018 Sakata 2018	I The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crossectional study] Dementia and patient outcomes after hip surgery in older patients: A retrospective observational study using nationwide administrative data in Japan Predictors of New Dementia Diagnoses in Elderly Individuals: A Retrospective Cohort Study Based on Prefecture-Wide Claims Data in Japan Structure and process of dementia care and patient outcomes after hip surgery in elderly people with dementia: A retrospective observational study in Japan Regional differences in dementia seen from health insurance claims data: A study on all ode-old people in Highat Prefecture)* Surveiliance of First-Generation H1-Antihistamine Use for Older Patients with Dementia in Japan: A Retrospective Cohort Study Effects of gastrostomy fee schedule revision on artificial nutrition routes among older people with dementia in Japan: A time series observational study Thyroid function tests before prescribing anti-dementia drugs: a retrospective observational study Thyroid function tests before prescribing anti-dementia drugs: a retrospective observational study	DPC NHI/LSEHS / DPC NHI/LSEHS NHI/LSEHS NHI/LSEHS	Health Insurance Organization Diagnosis Procedure Combination database and reports database and reports functions of hospital beds administrative claims for the elderly Fukuoka Late Elders' Health Insurance Fukuoka Late Elders' Health Insurance National Healthcare Insurance Database and Ol-Old Aduts	Nationwide Prefecture Prefecture Prefecture Prefecture Nationwide Nationwide	Niigata Niigata Fukuoka	2016 2012 2016 2016 2010 2010 2015	2017 Clinica diseas 2016 Clinica diseas 2017 Health utilizat 2016 Health 2013 Medici 2016 Medici 2016 Medici 2016 Medici	epidemiology, course of es epidemiology, course of es policy evaluation and ion economics al treatment status al treatment status el pidemiology, course of	Health policy evaluation and utilization Socioeconomic comparison Health policy evaluation and utilization Quality of care Health policy evaluation and	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders	Diseases of the nervous system	Dementia (after hip surgery) dementia dementia dementia dementia dementia dementia	Older persons Older persons Older persons Older persons Older persons	aged ≥75 years aged 65 years or older 75 years old and older aged 75 years or older aged 275 years or older aged 275 years or older aged 265.74 years
Morioka 2021 Nakaoku 2021 Morioka 2020 Tashiro 2020 Maeda 2018 Sakata 2018 Lin 2015	I The length of stay for hospitalized patients with dementia in Fukuoka Prefecture : A crossectional study] Dementia and patient outcomes after hip surgery in older patients: A retrospective observational study using nationwide administrative data in Japan Predictors of New Dementia Diagnoses in Elderly Individuals: A Retrospective Cohort Study Based on Prefecture-Wide Claims Data in Japan Structure and process of dementia care and patient outcomes after hip surgery in elderly people with dementia: A retrospective observational study in Japan Regional differences in dementia seen from health insurance claims data: A study on all ode-old people in Highat Prefecture)* Surveiliance of First-Generation H1-Antihistamine Use for Older Patients with Dementia in Japan: A Retrospective Cohort Study Effects of gastrostomy fee schedule revision on artificial nutrition routes among older people with dementia in Japan: A time series observational study Thyroid function tests before prescribing anti-dementia drugs: a retrospective observational study Thyroid function tests before prescribing anti-dementia drugs: a retrospective observational study	DPC NHI/LSEHS / DPC NHI/LSEHS NHI/LSEHS NHI/LSEHS	Health Insurance Organization Diagnosis Procedure Combination database and reports of the medical functions of hospital beds administrative claims database of the medical care system for the elderly Fukuoka Late Elders' Health Insurance Fukuoka Late Elders' Health Insurance National Healthcare Insurance Database and Old-Old Adults	Nationwide Prefecture Prefecture Prefecture Prefecture Nationwide Nationwide	Niigata Niigata Fukuoka	2016 2012 2016 2016 2010 2010 2015	2017 Clinica diseas 2016 Clinica diseas 2017 Health utilizat 2016 Health 2013 Medici 2016 Medici 2016 Medici 2016 Medici	epidemiology, course of es epidemiology, course of es policy evaluation and ion economics al treatment status al treatment status el pidemiology, course of	Health policy evaluation and utilization Socioeconomic comparison Health policy evaluation and utilization Quality of care Health policy evaluation and utilization	Mental, Behavioral and Neurodevelopmental disorders Mental, Behavioral and Neurodevelopmental disorders	Diseases of the nervous system	Dementia (after hip surgery) dementia dementia dementia dementia dementia dementia dementia	Older persons Older persons Older persons Older persons Older persons	aged ≥75 years aged 65 years or older 75 years old and older aged 75 years on older aged ≥75 years and those aged 65-74 year with a specific day

Mine 2020	Hospitalization and discharge routes of elderly hip fracture patients with and without dementia: a nationwide cross-sectional exploratory study using the Japanese Diagnostic	DPC		Nationwide		2014		nical epidemiology, course of seases		Mental, Behavioral and Neurodevelopmental disorders	Injury, poisoning and certain other consequences of external causes	hip fracture, dementia	Older persons	aged 65 years or older
	Procedure Combination database						uis	eases		iveurouevelopmental disorders	consequences of external causes			
Tomioka 2020		DPC		Nationwide		2014	2018 Me	edical treatment status		Mental, Behavioral and	Injury, poisoning and certain other	hip fracture, dementia	Older persons	65 years old and older
	acute care hospitals: observational study using nationwide hospital claims data in Japan									Neurodevelopmental disorders	consequences of external causes			
Tsuda 2015	Association between dementia and postoperative complications after hip fracture surgery	DPC		Nationwide		2007	2010 Cli	nical epidemiology, course of		Mental, Behavioral and	Injury, poisoning and certain other	neck fracture and intertrochanteric fracture,	Others	age ≥70 years
15000 2015	in the elderly: analysis of 87,654 patients using a national administrative database	510		Hationinae		2001		eases		Neurodevelopmental disorders	consequences of external causes		outro	ugo 210 Jouro
Maeda 2016	Investigation into the causes of indwelling urethral catheter implementation and its	NHI/LSEHS	Fukuoka Late Elders'	Prefecture	Fukuoka	2010	2013 Qu	ality of care	Health economics	Mental, Behavioral and	Diseases of the respiratory system	dementia patients with pneumonia	Older persons	75 years or older
	effects on clinical outcomes and health care resources among dementia patients with		Health Insurance							Neurodevelopmental disorders				
0	pneumonia A retrospective cohort study	1100		Nationwide		2005	2014	Intervention effect		Mental, Behavioral and	Endocrine, nutritional and	to construct the second second	Others	
Song 2017	Association between eicosapentaenoic acid (EPA) medication intake and new onset of depression among Japanese patients with hyperlipidemia: A 3-year follow-up study	JMDC		Nationwide		2005	2014	Intervention effect	t.	Nental, Benavioral and Neurodevelopmental disorders	metabolic diseases	depression, hyperlipidemia	Uthers	aged ≥18 years
Inada 2021	Effect of residual insomnia and use of hypnotics on relapse of depression; a retrospective	JMDC		Nationwide		2006	2017	Clinical epidemiology, course of	f Medical treatment status		metabolic diseases	residual insomnia, relapse of depression	Others	aged 20-65 years
	cohort study using a health insurance claims database							diseases	3	Neurodevelopmental disorders				· · ·
Yamato 2021	Patterns of hypnotic prescribing for residual insomnia and recurrence of major depressive disorder: a retrospective cohort study using a Japanese health insurance claims database			Nationwide		2005	2018	Intervention effect	t Medical treatment status	s Mental, Behavioral and Neurodevelopmental disorders		residual insomnia, recurrence of major depressive disorder	Others	20-56 years
Fujita 2019		JHIA	The Fukuoka branch	Prefecture	Fukuoka	2010		nical epidemiology, course of		Mental, Behavioral and		depressive disorders	Others	30-69 years old
	study in Fukuoka, Japan		of the Japan Health Insurance Association	1			dis	eases		Neurodevelopmental disorders				
Hirano 2018	Possibility of Database Research as a Means of Pharmacovigilance in Japan Based on a	Others	MinaCare,	Nationwide		2008	2013 He	alth policy evaluation and	Research methodology	Mental, Behavioral and		depression/depressive symptoms and panic		
	Comparison with Sertraline Postmarketing Surveillance		postmarketing					lization		Neurodevelopmental disorders		disorder		
			surveillance results											
Kimura 2015	Treatment persistence with antidepressants in Japan: Assessment of the first 60 days of	Others	JMIRI database	Nationwide		2012	2012 Pa	tient health service utilization		Mental, Behavioral and		depression	Others	aged ≥ 20 years
Kitanich: 2021	treatment based on pharmacy claims data from reimbursement database Patient journey through cases of depression from claims database using machine	JMDC		Nationwide		2005	2019 2	ediction model	Clinical epidemiology, course o	Neurodevelopmental disorders		depression		
kitanishi 2021	Patient journey through cases of depression from claims database using machine learning algorithms	JNDC		HacionWide		2005	2018 Pr	earcroff model	1 001	f Mental, Behavioral and s Neurodevelopmental disorders		uepression		
Yamazaki 2021	Early Electroconvulsive Therapy in Patients With Major Depressive Disorder: A	DPC		Nationwide		2011	2018	Intervention effect		s Mental, Behavioral and		major depressive disorder		
	Propensity Score-Matched Analysis Using a Nationwide Inpatient Database in Japan									Neurodevelopmental disorders				
Mahlich 2018	Estimating Prevalence and Healthcare Utilization for Treatment-Resistant Depression in	JMDC		Nationwide		2012	2015	Clinical epidemiology, course of		s Mental, Behavioral and		treatment-resistant depression	Others	18-60 years of age
-	Japan: A Retrospective Claims Database Study							diseases		Neurodevelopmental disorders			A	
Furukawa 2013	Prescription patterns following first-line new generation antidepressants for depression in Japan; a naturalistic cohort study based on a large claims database	IMDC		Nationwide		2008	2011	Medical treatment status	Quality of care	e Mental, Behavioral and Neurodevelopmental disorders		unipolar depression	Others	Aged 18 or older
Onishi 2013	Psychotropic prescription patterns among patients diagnosed with depressive disorder	JMDC		Nationwide		2008	2011	Medical treatment status	Quality of care	e Mental, Behavioral and		depressive disorder	Others	age ≥18 years
	based on claims database in Japan						2010	AN		Neurodevelopmental disorders	A -1		A	
Otsubo 2012	[A fact-finding survey on pain comorbidity in patients with depression: A retrospective study using a medical fee claims database]*	MDV		Nationwide		2003	2010	Clinical epidemiology, course of diseases		s Mental, Behavioral and Neurodevelopmental disorders	Others	Depression, Pain	Others	age ≥20 years
Michihata	Comparison between enteral nutrition and intravenous hyperalimentation in patients with	DPC		Nationwide		2010	2013	Intervention effect		Mental, Behavioral and		Eating disorders	Others	aged 10-59 years
2014	eating disorders: results from the Japanese diagnosis procedure combination database									Neurodevelopmental disorders		ů.		· · ·
Hosomi 2016	[Association of Antipsychotic Use with Extrapyramidal Symptoms: Data Mining of the	NDB		Nationwide		2010	2012	Intervention effect	t	Mental, Behavioral and	Diseases of the nervous system	Extrapyramidal Symptoms (Antipsychotic Use)		
	Japanese National Insurance Claims Database]									Neurodevelopmental disorders				
Hayashi 2020		NDB	Aggregated data	Nationwide		2010	2015 Me	edical treatment status		Mental, Behavioral and		mood disorder		
	retrospective observational study using the nationwide claims database from FY2010 to FY2015									Neurodevelopmental disorders				
Fuiita 2019	Inequality within a community at the neighborhood level and the incidence of mood	NHI/LSEHS	NHI	Municipality	Chiba	2013	2016	Clinical epidemiology, course of	f Socioeconomic comparisor	n Mental. Behavioral and		mood disorder (F30-F39)	Others	aged 20 to 69 years
,	disorders in Japan: a multilevel analysis				City			diseases		Neurodevelopmental disorders				-8
Sakakibara	[Study on the Risk Factors for Postoperative Delirium Using the National Health	NDB		Nationwide		2015	2016 Cli	nical epidemiology, course of		Mental, Behavioral and		postoperative delirium		
2019	Insurance Claims Database in Japan]						dis	eases		Neurodevelopmental disorders				
Yamanashi 2020	The role of mental disease on the association between multimorbidity and medical expenditure	NHI/LSEHS	Kokuho-Database Svstem	Municipality	Goto city,	2016		nical epidemiology, course of seases	Health economics	Mental, Behavioral and Neurodevelopmental disorders	Others	mental disease, multimorbidity	Others	ageed 0-75 years
2020	expenditure		System		city, western		dis	eases		iveurodevelopmental disorders				
					Japan									
Satoh 2016		JMDC		Nationwide		2005	2010 M	edical treatment status		Mental, Behavioral and		pervasive developmental disorders	Children	younger than 18 years o
-	based study in Japan									Neurodevelopmental disorders				age
Muramatsu 2019	Relationship between treatment and period of absence among employees on sick leave due to mental disease	Others	health insurance claims data provided	Others	a property	2008	2014 Int	ervention effect		Mental, Behavioral and Neurodevelopmental disorders		mental disease, psychotherapy		
2013	que lo mentar disease		claims data provided by one health		property insuranc					iveurodevelopmental disorders				
			insurance society,		e									
			data on accident and		compan									
			sickness benefits		y group									
			paid during the sick											
Okumura 2010	Psychiatric Admissions and Length of Stay During Fiscal Years 2014 and 2015 in Japan: A	NDB	leave 630 survey	Nationwide		2014	2016 14	edical treatment status		Mental, Behavioral and		psychiatric care		age group
okumura 2019	Psychiatric Admissions and Length of Stay During Fiscal Years 2014 and 2015 in Japan: A Retrospective Cohort Study Using a Nationwide Claims Database	NUD	000 Survey	NUCLIMIC		2014	2010 M	suicei ireatiment status		Nental, Benavioral and Neurodevelopmental disorders		payoneuric care		elle Rinnh
Inaida 2018	Psychogenic non-epileptic seizures in Japan: Trends in prevalence, delay in diagnosis,	JMDC		Nationwide		2006	2014	Clinical epidemiology, course of		s Mental, Behavioral and		Psychogenic non-epileptic seizures		all ages
	and frequency of hospital visits	NDD		M-12-1-11		0011	0010	diseases	5	Neurodevelopmental disorders		Parada a la destructor de la		
01		NDR		Nationwide		2014		alth policy evaluation and lization		Mental, Behavioral and Neurodevelopmental disorders		Patients newly admitted to acute psychiatric units		
Okumura 2018	Association of high psychiatrist staffing with prolonged hospitalization, follow-up visits,						uti	nzatidli		webroueveropmental disorders		unico		
Okumura 2018	and readmission in acute psychiatric units: a retrospective cohort study using a													
		DPC		Nationwide		2012	2014	Clinical epidemiology, course of	f Health policy evaluation and	d Mental, Behavioral and		psychiatric patients	Others	aged ≥15 years
Shinjo 2017	and readmission in acute psychiatric units: a retrospective cohort study using a nationwide claims database Factors affecting prolonged length of stay in psychiatric patients in Japan: A retrospective observational study							diseases	a utilization	n Neurodevelopmental disorders			Others	aged ≥15 years
Shinjo 2017	and readmission in acute psychiatric units: a retrospective cohort study using a nationwide claims database Factors affecting prolonged length of stay in psychiatric patients in Japan: A retrospective observational study [Mental Health of Small and Medium Enterprise Workers: An Empirical Analysis Using		Japan Health	Nationwide Prefecture	Hyogo	2012 2013	2014 2013	diseases Clinical epidemiology, course of	s utilization	n Neurodevelopmental disorders Mental, Behavioral and		psychiatric patients mental disorder	Others	aged ≥15 years
Shinjo 2017	and readmission in acute psychiatric units: a retrospective cohort study using a nationwide claims database Factors affecting prolonged length of stay in psychiatric patients in Japan: A retrospective observational study		Japan Health Insurance Association Hyogo Branch		Hyogo			diseases	s utilization	n Neurodevelopmental disorders			Others	aged ≥15 years

Matsuda 2016 Refinement of DPC classification of psychiatric disorders	DPC		Nationwide		2011	2012	Health economics		Mental, Behavioral and Neurodevelopmental disorders		psychiatric MDC		age category
Murakami Importance of psychiatric disorders as comorbidities and complications among the acute	DPC		Nationwide		2010	2010	Clinical epidemiology, course of		Mental, Behavioral and		psychiatric problem among the acute in-patier	nt	
2016 in-patient cases in Japan Murata 2015 [Analysis of outcomes of acute abdominal patients with mental disorder using Diagnosis	DPC		Nationwide		2009	2011	diseases Clinical epidemiology, course of		Neurodevelopmental disorders Mental, Behavioral and	Others	cases acute abdomen, psychiatric complications		age group
Procedure Combination database]	510		Hationinae		2005	2011	diseases		Neurodevelopmental disorders	011010	acare abdoment payanatile complications		050 51000
Inagaki 2014 [Metabolic and Lithium Monitoring in Japanese Psychiatric Outpatient Clinics]	Others	health insurance claims of psychiatric outpatients (a database constructed from research on medical policies)	Nationwide		2006	2006	Medical treatment status	Quality of c	care Mental, Behavioral and Neurodevelopmental disorders		psychiatric outpatient		
Matsuda 2010 [Evaluation of Psychiatric medicine under the DPC system]	DPC		Nationwide		2008	2008	Medical treatment status	Health econor	nics Mental, Behavioral and	Diseases of the nervous system	Psychiatric disorders		
									Neurodevelopmental disorders				
Baba 2020 [First-Time Use versus Continuing Use of Benzodiazepine Receptor Agonists in Japan]	JMDC		Nationwide		2013	2014 M	ledical treatment status		Mental, Behavioral and Neurodevelopmental disorders		Benzodiazepine receptor agonists	Others	aged between 40 and 74
Okumura 2016 Prevalence, prescribed quantities, and trajectory of multiple prescriber episodes for benzodiazepines: A 2-year cohort study	JMDC		Nationwide		2012	2014	Medical treatment status		Mental, Behavioral and Neurodevelopmental disorders		patients with a benzodiazepine	Others	aged 0-74 years
Takeshima Continuation and discontinuation of benzodiazepine prescriptions: A cohort study based 2016 on a large claims database in Japan	JMDC		Nationwide		2005	2014	Medical treatment status	Patient health service utiliza	tion Mental, Behavioral and Neurodevelopmental disorders		new benzodiazepines users	Others	Aged 18 or older
2016 on a large claims database in Japan Takeuchi 2012 [Relationship between Implementation of Community-based Dental Health Programs and Community	d NHI/LSEHS	NHI	Prefecture	Okavam	1997	2009	Health economics	Health policy evaluation	and Mental, Behavioral and	Diseases of the digestive system	Mental and behavioral disorders, dental	Others	age <75 years
Health Care Costs for Mental and Behavioral Disorders]				а					tion Neurodevelopmental disorders	· · ·	-		· /
Shigemi 2021 Suicide attempts during pregnancy and perinatal outcomes	DPC		Nationwide		2016	2018	Clinical epidemiology, course of diseases		Mental, Behavioral and Neurodevelopmental disorders	Pregnancy, childbirth and the puerperium	suicide attempts during pregnancy	Others	aged ≥ 15 years
Shigemi 2020 Suicide Attempts Among Pregnant and Postpartum Women in Japan: A Nationwide	DPC		Nationwide		2016	2018	Clinical epidemiology, course of		Mental, Behavioral and	Pregnancy, childbirth and the	Suicide attempts among pregnant and	Others	aged ≥13 years
Retrospective Cohort Study Asami 2016 A Perspective of Pharmacovigilance Using the Healthcare Claim Database, Based on	Others	Mine Care Controll	Notio 11		2008	2012 -	diseases		Neurodevelopmental disorders	puerperium	postpartum women Sertraline		
Asami 2016 [A Perspective of Pharmacovigilance Using the Healthcare Claim Database, Based on Comparison with Sertraline Post Marketing Surveillance]	Utners	MinaCare, Sertraline Post Marketing	wationwide		2008	2013 R	esearch methodology	Health policy evaluation and utilization	Mental, Behavioral and Neurodevelopmental disorders		Sertraine		
		Surveillance							-				
Ooba 2018 Prevalence of Therapeutic Drug Monitoring for Lithium and the Impact of Regulatory Warnings: Analysis Using Japanese Claims Database	JMDC		Nationwide		2005	2014 Q	uality of care	Health policy evaluation and utilization	Mental, Behavioral and Neurodevelopmental disorders		Therapeutic drug monitoring for lithium	Others	aged 20-74 years old
Hirano 2019 Changes in Prescription of Psychotropic Drugs After Introduction of Polypharmacy	Others	MinaCare	Nationwide		2011	2017	Medical treatment status		and Mental, Behavioral and		psychotropic drug prescribed patients	Others	age<75
Reduction Policy in Japan Based on a Large-Scale Claims Database Tanemura Pediatric off-label use of psychotropic drugs approved for adult use in Japan in the light	Othors	database of a	Nationwide		2016	2017	Medical treatment status	utiliza	tion Neurodevelopmental disorders Mental, Behavioral and		pediatric patients' off-label use of	Children	aged <16 years
2019 of approval information regarding pediatric patients in the United States: a study of a	Others	company owning a	Nationwide		2010	2017	Wedical treatment status		Neurodevelopmental disorders		psychotropics approved only for adults	Chindren	aged <10 years
pharmacy prescription database		nationwide chain											
Orime 2018 Survey on the management of physical risks induced by psychotronic agents in Japan	IMDC	pharmacies	Nationwide		2014	2014	Medical treatment status	A	Mantal Dahari and and		and the second second second second	Othe	
Orime 2018 Survey on the management of physical risks induced by psychotropic agents in Japan	IMDC		ivationwide		2014	2014	Medical treatment status	Quality of o	care Mental, Behavioral and Neurodevelopmental disorders		persistent users of psychotropic agents	Others	aged 6-17 years and 18- 74 years
Matsuda 2015 Analysis of Health Care Region for Psychiatric Care Based on the National Database	NDB		Prefecture	Fukuoka	2010		ealth policy evaluation and		Mental, Behavioral and		Psychiatric medicine		
Arakawa 2015 [Actual status of prescription patterns of anxiolytics and hypnotics in outpatients using	NDR	Sampling data	Nationwide		2011	2011	tilization Medical treatment status		Neurodevelopmental disorders Mental, Behavioral and		anxiolytics, hypnotics		
National Database of Health Insurance Claim Information and Specific Medical	NDB	Samping data	Nationwide		2011	2011	weukar treatment status		Neurodevelopmental disorders		anxiolytics, hyphotics		
Checkups]													
Okumura 2014 [Geographical variation in sedative – hypnotic use among recipients of public assistance	Others	Fact-finding Survey	Nationwide		2011	2012	Medical treatment status	Socioeconomic compari	ison Mental, Behavioral and		sedative-hypnotic use		
a nationwide survey]		on Medical Assistance							Neurodevelopmental disorders				
Abe 2012 Prescription hypnotics and associated background factors in a large-scale Japanese	JMDC	Associated	Nationwide		2005	2005	Medical treatment status		Mental, Behavioral and		prescribed hypnotics	Others	aged 20 to 74 years
database Shimane 2012 Prevention of overlapping prescriptions of psychotropic drugs by community pharmacists	Others	Saitama	Nationwide		2010	2010	Medical treatment status		Neurodevelopmental disorders Mental, Behavioral and		psychotropic drugs		
 recenter or company, prescriptions or psychotropic ands of community plantadots 	00000	Pharmaceutical Association (health insurance claims for dispensing)	Autonwidd		_010	2010	monou rearment status		Neurodevelopmental disorders		na yanakana katego		
Yatomi 2020 Prescription patterns of psychotropics in patients receiving synthetic glucocorticoids	NDB	Sampling data	Nationwide		2015	2015	Medical treatment status	Intervention ef	fect Mental, Behavioral and	Endocrine, nutritional and	psychotropics in patients receiving synthetic		age-groups
Okumura 2017 Risk of recurrent overdose associated with prescribing patterns of psychotropic	NDB		Nationwide		2012	2013	Intervention effect	Medical treatment sta	Neurodevelopmental disorders atus Mental, Behavioral and	metabolic diseases Injury, poisoning and certain other	glucocorticoids overdose (T360–T509), psychotropic	Others	19- to 64-year-old
medications after nonfatal overdose Okumura 2015 Exposure to psychotropic medications prior to overdose: a case-control study	JMDC		Nationwide		2012	2013	Medical treatment status	Intervention of	Neurodevelopmental disorders fect Mental, Behavioral and	consequences of external causes	medications drug poisoning, psychotropic medications	Others	aged 12–74 years
									Neurodevelopmental disorders	consequences of external causes			
Inoue 2016 [Psychotropic Prescribing Practices for Children and Adolescents with Intellectual Disabilities : A Cohort Study Using a Large-scale Health Insurance Database]	JMDC		Nationwide		2012	2013	Medical treatment status		Mental, Behavioral and Neurodevelopmental disorders		Intellectual Disabilities, Psychotropic Prescribing Practices	Children	aged 3-17 years
Obara 2020 [Elucidation of the relationship between use of psychotropic drugs in pregnant women	JMDC		Nationwide		2005	2017	Medical treatment status		Mental, Behavioral and	Pregnancy, childbirth and the	psychotropic drug use in pregnant women		
and malformation of infants] Cheung 2017 Drug Utilization of Japanese Patients Diagnosed with Schizophrenia: An Administrative	MDV		Nationwide		2013	2015 C	linical epidemiology, course of	Intervention effect	Neurodevelopmental disorders Mental, Behavioral and	puerperium	schizophrenia	Others	aged between 18 and 65
Database Analysis			M-17-1 11		2005		seases	A	Neurodevelopmental disorders		and a start of	0.1	years
Hata 2020 The 12-year trend report of antipsychotic usage in a nationwide claims database derived from four million people in Japan			Nationwide		2005	2016	Medical treatment status		care Mental, Behavioral and Neurodevelopmental disorders		schizophrenia	Others	aged 18 years or older
Iwata 2020 Treatment Persistence Between Long-Acting Injectable Versus Orally Administered Aripiprazole Among Patients with Schizophrenia in a Real-World Clinical Setting in Japar	JMDC		Nationwide		2014	2018	Patient health service utilization	Medical treatment sta	atus Mental, Behavioral and Neurodevelopmental disorders		schizophrenia	Others	aged 18 years or more
Kusumi 2020 A propensity score matching analysis for cardio metabolic risk of antipsychotics in	JMDC		Nationwide		2005	2017	Intervention effect		Mental, Behavioral and		schizophrenia	Others	aged ≤65 years
patients with schizophrenia using Japanese claims data	JMDC		Nationwide		2005	2017	Medical treatment status	1	Neurodevelopmental disorders fect Mental, Behavioral and		schizophrenia	Others	aread < 65
Takekita 2020 Rehospitalization Risk of Receptor-Affinity Profile in Antipsychotic Drug Treatment: A Propensity Score Matching Analysis Using a Japanese Employment-Based Health	TWIDE		ivationwide		2005	2017	medical treatment status	intervention ef	tect Mental, Behavioral and Neurodevelopmental disorders		scrizoprirenia	Utners	aged ≤65 years
Insurance Database Okumura 2018 Timely follow-up visits after psychiatric hospitalization and readmission in schizophrenia	NDB		Nationwide		2014	2015	ptervention effort	Patient health service utiliza	tion Mental Behavioral and		schizophrenia or bipolar disorder	Others	aged <65 years
and bipolar disorder in Japan								and a service duite	Neurodevelopmental disorders		-produce an experient disponder		

Toyota 2017													
	[A study on the effect of psychiatry emergency medical care]	JHIA	Fukuoka branch of the Japanese Health Insurance Association		Fukuoka	2010	2014	Intervention effect	Health policy evaluation and Mental, Behavioral and utilization Neurodevelopmental disorders		schizophrenia, psychiatric emergency care		
Kuwabara 2015	Adherence and rehospitalizations in patients with schizophrenia: evidence from Japanese claims data	JMDC		Nationwide		2009	2013	Intervention effect	Patient health service utilization Mental, Behavioral and Neurodevelopmental disorders		schizophrenia diagnosis (ICD-10 code: F20)	Others	aged 18-65 years
Ochiai 2014	[Factors associated with high-dose prescription of antipsychotics in outpatients with	NHI/LSEHS	National Health	Prefecture	Kyoto	2011	2012	Medical treatment status	Health policy evaluation and Mental, Behavioral and		schizophrenia		
	schizophrenia -An analysis of claims data from a Japanese prefecture-]		Insurance and Later- Stage Elderly Healthcare System						utilization Neurodevelopmental disorders				
Nakamura	Length of mechanical restraint following haloperidol injections versus oral atypical	DPC		Nationwide		2006	2009	Intervention effect	Mental, Behavioral and		acute schizophrenia		
2013	antipsychotics for the initial treatment of acute schizophrenia: a propensity-matched								Neurodevelopmental disorders				
	analysis from the Japanese diagnosis procedure combination database			Nationwide		2011	2011	Medical treatment status			schizonhrenia		
Okumura 2013	3 [Antipsychotics prescribing patterns of patients with schizophrenia in Japan : Using the National Database of Health Insurance Claim Information and Specified Medical Checkups]	NDB	Sampling data	Nationwide		2011	2011	Medical treatment status	Quality of care Mental, Behavioral and Neurodevelopmental disorders		schizophrenia		
Ye 2012	Antipsychotic monotherapy among outpatients with schizophrenia treated with	JMDC		Nationwide		2003	2009	Medical treatment status			schizophrenia	Others	between 20 and 65
Ye 2011	olanzapine or risperidone in Japan: a health care database analysis Characteristics of Outpatients Initiated on Olanzapine versus Risperidone in the	JMDC		Nationwide		2003	2009	Medical treatment status	Neurodevelopmental disorders Mental, Behavioral and		schizophrenia or schizoaffective disorder	Others	years old adults aged 20 to 65
16 2011	Treatment of Schizophrenia in Japan: A Healthcare Database Analysis	JMDC		Nationwide		2003	2005	wedical treatment status	Neurodevelopmental disorders		schizophrenia of schizoarrective disorder	Others	addits aged 20 to 05
Iwata 2011	[Comparison between the treatment outcomes of monotherapy with new antipsychotic	JMDC		Nationwide		2007	2010	Patient health service utilization	Health economics Mental, Behavioral and		schizophrenia	Others	aged 25 to 49 years
	drugs using medical fee receipts]								Neurodevelopmental disorders				
Nakahara 201	0 [Analysis of the treatment outcomes for schizophrenia using medical fee receipts]	JMDC		Nationwide		2004	2006	Medical treatment status			schizophrenia (F20-29)	Others	aged 20 to 49 years
Suwa 2018	The association between smoking cessation outpatient visits and total medical costs: a	IMDC		Nationwide		2005	2013 In	ntervention effect	Neurodevelopmental disorders Health economics Mental, Behavioral and		nicotine dependence (F17.2)	Others	aged 21–60 years
30W8 2010	retrospective, observational analysis of Japanese employee-based public health	JMDC		Nationwide		2005	2015 11	itervention enect	Neurodevelopmental disorders		nicotine dependence (111.2)	Others	aged 21-00 years
	insurance data												
Yuzuriha 2019	Burden of illness for alcohol dependence using health insurance claims database in	JMDC	national statistics	Nationwide		2015	2017	Health economics			alcohol dependence		
	Japan]		data (Patients Survey	/					Neurodevelopmental disorders				
			and Statistics of Medical Care										
			Activities in Public										
			Health Insurance)										
6) Diseases of	f the nervous system (G00-G99)		· · ·										
Fukunishi 202	0 Alzheimer-type dementia prediction by sparse logistic regression using claim data	Others	Health insurance and	Municipality	a large	2012	2015 P	rediction model	Clinical epidemiology, course of Diseases of the nervous system		Dementia in Alzheimer disease	Older persons	being over 75 years old
			long-term care		city in				diseases				
			insurance databases		the								
			in a large city		metropo litan								
					area in								
Kuboyama	Medical expenses for cilostazol to treat Alzheimer's disease in Japan	NHI/LSEHS	National Health	Prefecture	а	2010	2011	Health economics	Diseases of the nervous system		Cilostazol to treat Alzheimer's disease		
2019			Insurance and the		prefectu								
			Long-term Care		re in								
			Insurance systems		lanan								
K . I.I	7. 0	0.1	,	AL. (2	зарап	2010	2014	M. P. 11	Provide the second seco		All Lating to Hannak	0.1	00
Kadohara 201	7 Prescription Patterns of Medications for Alzheimer's Disease in Japan from 2010 to 2015 A Descriptive Pharmacy Claims Database Study	: Others	pharmacy claims databases (operated by four community	Nationwide	заран	2010	2014	Medical treatment status	Diseases of the nervous system		Alzheimer's disease	Others	20 years or older
	A Descriptive Pharmacy Claims Database Study		pharmacy claims databases (operated		тарап								
	A Descriptive Pharmacy Claims Database Study 7 Diabetes mellitus and risk of early-onset Alzheimer's disease: a population-based case-		pharmacy claims databases (operated by four community	Nationwide Nationwide	тарап	2010	2014	Clinical epidemiology, course of	Diseases of the nervous system		Alzheimer's disease Alzheimer's disease (AD), Diabetes mellitus	Others Others	20 years or older aged 40–64 years
	A Descriptive Pharmacy Claims Database Study 7 Diabetes mellitus and risk of early-onset Alzheimer's disease: a population-based case- control study	JMDC	pharmacy claims databases (operated by four community pharmacy chains)	Nationwide	таран	2005		Clinical epidemiology, course of diseases	Diseases of the nervous system	Endocrine, nutritional and metabolic diseases	Alzheimer's disease (AD), Diabetes mellitus		aged 40–64 years
Kadohara 201 Fukamachi 2018	A Descriptive Pharmacy Claims Database Study 7 Diabetes mellitus and risk of early-onset Alzheimer's disease: a population-based case- control study Exploratory evaluation of a commercially available Japanese medical record database as an axternal control for comparative clinical trials in new drug development: Amyotrophic lateral sidencesia	JMDC	pharmacy claims databases (operated by four community	Nationwide Nationwide	зарап	2005 2008	2016	Clinical epidemiology, course of diseases Intervention effect	Diseases of the nervous system Research methodology Diseases of the nervous system	metabolic diseases	Alzheimer's disease (AD), Diabetes mellitus Amyotrophic lateral sclerosis	Others	
Kadohara 201 Fukamachi 2018	A Descriptive Pharmacy Claims Database Study 7 Diabetes melitus and risk of early-onset Alzheimer's disease: a population-based case- control study Exploratory evaluation of a commercially available Japanese medical record database as an external control for comparative clinical trials in new drug development: Amyotrophic lateral sclerosis F folic acid prescribed to prenatal and postpartum women who are also prescribed	JMDC	pharmacy claims databases (operated by four community pharmacy chains) compared with phase	Nationwide	зарап	2005	2016	Clinical epidemiology, course of diseases	Diseases of the nervous system	metabolic diseases Pregnancy, childbirth and the	Alzheimer's disease (AD), Diabetes mellitus Amyotrophic lateral sclerosis antiepileptic drugs, folic acid (prenatal and	Others	aged 40–64 years
Kadohara 201 Fukamachi 2018 Ishikawa 2020	A Descriptive Pharmacy Claims Database Study 7 Diabetes mellitus and risk of early-onset Alzheimer's disease: a population-based case- control study Exploratory evaluation of a commercially available Japanese medical record database as an external control for comparative clinical trials in new drug development: Amyotrophic lateral sciences Folic acid prescribed to prenatal and postpartum women who are also prescribed anticelipelic drugs in Japan: Data from a health administrative database	JMDC MDV JMDC	pharmacy claims databases (operated by four community pharmacy chains) compared with phase	Nationwide Nationwide Nationwide	заран	2005 2008 2005	2016 2016 2016 M	Clinical epidemiology, course of diseases Intervention effect ledical treatment status	Diseases of the nervous system Research methodology Diseases of the nervous system Diseases of the nervous system	metabolic diseases Pregnancy, childbirth and the puerperium	Alzheimer's disease (AD), Dlabetes mellitus Amyotrophic lateral sclerosis antiepileptic drugs, folic acid (prenatal and postpartum women)	Others	aged 40–64 years
Kadohara 201 Fukamachi 2018 Ishikawa 2020	A Descriptive Pharmacy Claims Database Study 7 Diabetes mellitus and risk of early-onset Alzheimer's disease: a population-based case- control study Exploratory evaluation of a commercially available Japanese medical record database as an external control for comparative clinical trials in new drug development: Amyotrophic lateral sclerosis 9 Folic acid prescribed to prenatal and postpartum women who are also prescribed antiepileptic drugs in Japan: Data from a health administrative database 0 Examination of the prescription of antiepileptic drugs to prenatal and postpartum women	JMDC MDV JMDC	pharmacy claims databases (operated by four community pharmacy chains) compared with phase	Nationwide Nationwide	зарап	2005 2008	2016 2016 2016 M	Clinical epidemiology, course of diseases Intervention effect	Diseases of the nervous system Research methodology Diseases of the nervous system	metabolic diseases Pregnancy, childbirth and the	Alzheimer's disease (AD), Diabetes mellitus Amyotrophic lateral sclerosis antiepileptic drugs, folic acid (prenatal and	Others	aged 40–64 years
Kadohara 201 Fukamachi 2018 Ishikawa 2020	A Descriptive Pharmacy Claims Database Study 7 Diabetes mellitus and risk of early-onset Alzheimer's disease: a population-based case- control study Exploratory evaluation of a commercially available Japanese medical record database as an external control for comparative clinical trials in new drug development: Amyotrophic lateral sciences Folic acid prescribed to prenatal and postpartum women who are also prescribed anticelipelic drugs in Japan: Data from a health administrative database	JMDC MDV JMDC	pharmacy claims databases (operated by four community pharmacy chains) compared with phase	Nationwide Nationwide Nationwide	зарап	2005 2008 2005	2016 2016 2016 M 2016 M	Clinical epidemiology, course of diseases Intervention effect ledical treatment status	Diseases of the nervous system Research methodology Diseases of the nervous system Diseases of the nervous system	metabolic diseases Pregnancy, childbirth and the puerperium Pregnancy, childbirth and the	Alzheimer's disease (AD), Diabetes mellitus Amyotophic lateral sclerosis antiepiepic drugs, folic acid (prenatal and postpartum vomen) antiepiepic drugs, prenatal and postpartum	Others	aged 40–64 years
Kadohara 201 Fukamachi 2018 Ishikawa 2020 Ishikawa 2020 Toyokawa 2017	A Descriptive Pharmacy Claims Database Study 7 Diabetes mellitus and risk of early-onset Alzheimer's disease: a population-based case- control study Exploratory evaluation of a commercially available Japanese medical record database as an external control for comparative clinical trials in new drug development: Amyotrophic lateral sciences 9 Folic acid prescribed to prenatal and postpartum women who are also prescribed antiepleptic drugs in Japan: Data from a health administrative database 9 Folic acid prescribed to mitepleptic drugs to prenatal and postpartum women in Japan from a health administrative database Estimation of the number of children with cerebral palsy using nationwide health insurance claims data in Japan	JMDC MDV JMDC JMDC NDB	pharmacy claims databases (operated by four community pharmacy chains) compared with phase	Nationwide Nationwide Nationwide Nationwide	заран	2005 2008 2005 2005 2012	2016 2016 2016 M 2016 M 2016 M 2013 Cl di	Clinical epidemiology, course of diseases Intervention effect Iedical treatment status Iedical treatment status Iedical reatment status	Diseases of the nervous system Research methodology Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system	metabolic diseases Pregnancy, childbirth and the puerperium Pregnancy, childbirth and the puerperium	Alzheimer's disease (AD), Diabetes mellitus Amyotrophic lateral sclerosis antiepileptic drugs, folic acid (prenatal and postpartum women) antiepileptic drugs, prenatal and postpartum women cerebral palsy	Others Others Children	aged 40–64 years aged 18-75 years aged below 20 years
Kadohara 201 Fukamachi 2018 Ishikawa 2020 Ishikawa 2019 Toyokawa	A Descriptive Pharmacy Claims Database Study 7 Diabetes mellitus and risk of early-onset Alzheimer's disease: a population-based case- control study Exploratory evaluation of a commercially available Japanese medical record database as an external control for comparative clinical trials in new drug development: Amyotrophic lateral sciences 9 Folic acid prescribed to prenatal and postpartum women who are also prescribed anticeplegic drugs in Japan: Data from a health administrative database 9 Examination of the prescription of antiepleptic drugs to prenatal and postpartum women in Japan from a health administrative database Estimation of the number of children with created palsy using nationwide health	JMDC MDV JMDC	pharmacy claims databases (operated by four community pharmacy chains) compared with phase	Nationwide Nationwide Nationwide Nationwide	Indiat	2005 2008 2005 2005	2016 2016 2016 M 2016 M 2016 M 2013 Cl di	Clinical epidemiology, course of diseases Intervention effect ledical treatment status ledical treatment status	Diseases of the nervous system Research methodology Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system	metabolic diseases Pregnancy, childbirth and the puerperium Pregnancy, childbirth and the	Alzheimer's disease (AD), Diabetes mellitus Amyotrophic lateral sclerosis antiepileptic drugs, folic acid (prenatal and postpartum women) antiepileptic drugs, prenatal and postpartum women cerebral paisy behavioral health patients: 630-51 (dementia).	Others Others Children	aged 40-64 years aged 18-75 years
Kadohara 201 Fukamachi 2018 Ishikawa 2020 Ishikawa 2019 Toyokawa 2017 Kishi 2020	A Descriptive Pharmacy Claims Database Study 7 Diabetes melitus and risk of early-onset Alzheimer's disease: a population-based case- control study Exploratory evaluation of a commercially available Japanese medical record database as an external control for comparative clinical trials in new drug development: Amyotrophic lateral sciences 9 Folic acid prescribed to prenatal and postpartum women who are also prescribed antiepleptic drugs in Japan: Data from a health administrative database 9 Folic acid prescribed to antiepleptic drugs to prenatal and postpartum women in Japan from a health administrative database 10 Estimation of the number of children with cerebral palsy using nationwide health Insurance claims data in Japan General medical claims for behavioral health patients in Japan 10 Recent overview of patients with anti-N-methyl-D-aspartate receptor encephalitis using	JMDC MDV JMDC JMDC NDB	pharmacy claims databases (operated by four community pharmacy chains) compared with phase	Nationwide Nationwide Nationwide Nationwide		2005 2008 2005 2005 2012	2016 2016 2016 M 2016 M 2016 M 2013 CH di 2015 H	Clinical epidemiology, course of diseases Intervention effect Iedical treatment status Iedical treatment status Iedical reatment status	Diseases of the nervous system Research methodology Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system	metabolic diseases Pregnancy, childbirth and the puerperium Pregnancy, childbirth and the puerperium	Alzheimer's disease (AD), Diabetes mellitus Amyotrophic lateral sclerosis antiepileptic drugs, folic acid (prenatal and postpartum women) antiepileptic drugs, prenatal and postpartum women cerebral palsy behavioral health patients: 630-31 (dementia), chronic medical condition anti-WMDAR encephaltis (ICD-10 code G048 o	Others Others Children Others	aged 40–64 years aged 18-75 years aged below 20 years
Kadohara 201 Fukamachi 2018 Ishikawa 2020 Ishikawa 2019 Toyokawa 2017 Kishi 2020 Shigemi 2019	A Descriptive Pharmacy Claims Database Study 7 Diabetes melitus and risk of early-onset Alzheimer's disease: a population-based case- control study Exploratory evaluation of a commercially available Japanese medical record database as an external control for comparative clinical trials in new drug development: Amyotrophic lateral sclerosis 9 Folic acid prescribed to prenatal and postpartum women who are also prescribed antiepileptic drugs in Japan; Data from a health administrative database [Examination of the prescription of antiepileptic drugs to prenatal and postpartum women in Japan from a health administrative database Estimation of the number of children with cerebral palsy using nationwide health insurance claims data in Japan General medical claims for behavioral health patients in Japan Recent overview of patients with anti-N-methyl-D-aspartate receptor encephalitis using a national inpatient database in Japan	JMDC MDV JMDC JMDC JMDC JMDC DPC	pharmacy claims databases (operated by four community pharmacy chains) compared with phase	Nationwide Nationwide Nationwide Nationwide Nationwide		2005 2008 2005 2005 2012 2014	2016 2016 M 2016 M 2016 M 2013 Cl di 2015 H 2017 M 2017 M	Clinical epidemiology, course of diseases Intervention effect ledical treatment status ledical treatment status linical epidemiology, course of iseases ealth economics	Diseases of the nervous system Research methodology Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system	metabolic diseases Pregnancy, childbirth and the puerperium Pregnancy, childbirth and the puerperium	Alzheimer's disease (AD), Diabetes mellitus Amyotrophic lateral sclerosis antiepileptic drugs, folic acid (prenatal and postpartum women) antiepileptic drugs, prenatal and postpartum women cerebral palsy behavioral health patients: G30-31 (dementia), chronic medical condition	Others Others Children Others	aged 40–64 years aged 18-75 years aged below 20 years 18 years and older
Kadohara 201 Fukamachi 2018 Ishikawa 2020 Ishikawa 2019 Toyokawa 2017 Kishi 2020 Shigemi 2019 Hatachi 2020 Hayakawa	A Descriptive Pharmacy Claims Database Study 7 Diabetes mellitus and risk of early-onset Alzheimer's disease: a population-based case- control study Exploratory evaluation of a commercially available Japanese medical record database as an external control for comparative clinical trials in new drug development: Amyotrophic lateral sciences 9 Folic acid prescribed to prenatal and postpartum women who are also prescribed anticepleptic drugs in Japan: Data from a health administrative database 9 Examination of the prescription of antiepleptic drugs to prenatal and postpartum women in Japan from a health administrative database Estimation of the number of children with creatoral palsy using nationwide health insurance claims data in Japan General medical claims for behavioral health patients in Japan Recent overview of patients with ant-N-methyl-D-aspartate receptor encephalitis using a national ingratimet database in Japan	JMDC MDV JMDC JMDC JMDC JMDC DPC	pharmacy claims databases (operated by four community pharmacy chains) compared with phase	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2005 2008 2005 2005 2012 2014 2010	2016 2016 M 2016 M 2016 M 2013 Cl di 2015 H 2017 M 2017 M	Clinical epidemiology, course of diseases Intervention effect Iedical treatment status Iedical treatment status Inical epidemiology, course of seases eaith economics Iedical treatment status Iedical treatment status	Diseases of the nervous system Research methodology Diseases of the nervous system Health policy evaluation and Diseases of the nervous system	metabolic diseases Pregnancy, childbirth and the puerperium Pregnancy, childbirth and the puerperium Others	Alzheimer's disease (AD), Diabetes mellitus Amyotrophic lateral sclerosis antiepileptic drugs, folic acid (prenatal and postpartum women) antiepileptic drugs, prenatal and postpartum women Cerebral palsy behavioral health patients: G30-31 (dementia), chronic medical condition anti-NMDAR encephalitis (ICD-10 code G048 o G049)	Others Others Children Others r	aged 40-64 years aged 18-75 years aged below 20 years 18 years and older age categories aged ≤18 years between 1 month and 15
Kadohara 201 Fukamachi 2018 Ishikawa 2020 Ishikawa 2020 Toyokawa 2017 Kishi 2020 Shigemi 2019 Hatachi 2020 Hayakawa 2020	A Descriptive Pharmacy Claims Database Study 7 Diabetes mellitus and risk of early-onset Alzheimer's disease: a population-based case- control study Exploratory evaluation of a commercially available Japanese medical record database as an external control for comparative clinical trials in new drug development: Amyotrophic lateral sclerosis 7 Folic acid prescribed to prenatal and postpartum women who are also prescribed anticiplegic drugs in Japan: Data from a health administrative database 9 Examistion of the puestoription of antiepileptic drugs to prenatal and postpartum women in Japan from a health administrative database Estimation of the number of children with cerebral palsy using nationwide health insurance claims data in Japan General medical claims for behavioral health patients in Japan Recent overview of patients with anti-N-methyl-D-aspartate reception encephalitis using a national inpatient database in Japan Recent overview of patients with acute encephalitis/encephalopathy associated with viral and other pathogens Recent treatment patterns and variations for pediatric acute encephalopathy in Japan	JMDC MDV JMDC JMDC NDB JMDC DPC DPC DPC	pharmacy claims databases (operated by four community pharmacy chains) compared with phase	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2005 2008 2005 2005 2012 2014 2010 2010 2010	2016 2016 M 2016 M 2013 Cl di 2015 H 2017 M 2018 Cl di 2018 Cl di 2016	Clinical epidemiology, course of diseases Intervention effect ledical treatment status ledical treatment status linical epidemiology, course of iseases ledical treatment status linical epidemiology, course of iseases Medical treatment status	Diseases of the nervous system Research methodology Diseases of the nervous system Health policy evaluation and Diseases of the nervous system utilization	metabolic diseases Pregnancy, childbirth and the puerperium Pregnancy, childbirth and the puerperium Others	Alzheimer's disease (AD), Diabetes mellitus Amyotrophic lateral sclerosis antiepileptic drugs, folic acid (prenatal and postpartum women) antiepileptic drugs, prenatal and postpartum women cerebral palsy behavioral health patients: 630-31 (dementia), chronic medical condition anti-MMAR encephaltis/(ICD-10 code G048 o G049) Acute encephaltis/encephalopathy pediatric acute encephalopathy	Others Others Children Others r Children Children	aged 40–64 years aged 18-75 years aged below 20 years 18 years and older age categories aged ≤18 years between 1 month and 15 years of age
Kadohara 201 Fukamachi 2018 Ishikawa 2020 Toyokawa 2017 Kishi 2020 Shigemi 2019 Hatachi 2020 Mayakawa Nakamura	A Descriptive Pharmacy Claims Database Study 7 Diabetes melitus and risk of early-onset Alzheimer's disease: a population-based case- control study Exploratory evaluation of a commercially available Japanese medical record database as an external control for comparative clinical trials in new drug development: Amyotrophic lateral sciences of the comparative clinical trials in new drug development: Amyotrophic lateral actions of the operatal and postpartum women who are also prescribed anticeliptic drugs in Japan: Data from a health administrative database 1 Examiation of the prescription of antiepileptic drugs to prenatal and postpartum women in Japan from a health administrative database 2 Examiation of the number of children with cerebral palsy using nationwide health insurance claims data In Japan 3 General medical claims for behavioral health patients in Japan 3 Prognostic factors among children with acte encephalitis/encephalopathy associated with virial and other pateents 3 Recent treatment patterns and variations for pediatric acute encephality in Japan 3 Prognostic factors among children with acted encephalitic acute encephalopathy in Japan 3 Recent treatment patterns and variations for pediatric acute encephalopathy in Japan 3 Prognostic factors among children with acute ancephalitic acute encephalopathy in Japan 3 Prognostic factors among children to factors for pediatric acute encephalopathy in Japan 3 Prognostic factors among children with acute encephalitic acute encephalopathy in Japan 3 Prognostic factors among children with acute encephality in Japan 3 Prognostic factors among children with acute encephality in Japan 3 Prognostic factors among children with acute encephality cause encephalopathy associated 3 Prognostic factors among children with acute encephalopathy associated 3 Prognostic factors among children with acute encephalopathy associated 3 Prognostic factors among children with acute encephalopathy associated 3 Prognostic factors among children with acute encephalopathy associated 3	JMDC MDV JMDC JMDC NDB JMDC DPC DPC DPC	pharmacy claims databases (operated by four community pharmacy chains) compared with phase	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2005 2008 2005 2005 2012 2014 2010 2010	2016 2016 M 2016 M 2013 Cl di 2015 H 2017 M 2018 Cl di 2018 Cl di 2016	Clinical epidemiology, course of diseases Intervention effect ledical treatment status ledical treatment status linical epidemiology, course of seases ealth economics ledical treatment status linical epidemiology, course of iseases	Diseases of the nervous system Research methodology Diseases of the nervous system Health policy evaluation and Diseases of the nervous system	metabolic diseases Pregnancy, childbirth and the puerperium Pregnancy, childbirth and the puerperium Others	Alzheimer's disease (AD), Diabetes mellitus Amyotrophic lateral sclerosis antiepileptic drugs, folic acid (prenatal and postpartum women) antiepileptic drugs, prenatal and postpartum women cerebral palsy behavioral health patients: 630-31 (dementia), chronic medical condition anti-MMDAR encephalitis (ICD-10 code 6048 o 6049) Acute ancephalits/encephalopathy	Others Others Children Others r Children	aged 40-64 years aged 18-75 years aged below 20 years 18 years and older age categories aged ≤18 years between 1 month and 15
Kadohara 201 Fukamachi 2018 Ishikawa 2020 Toyokawa 2017 Kishi 2020 Shigemi 2019 Hatachi 2020 Hayakawa 2020	A Descriptive Pharmacy Claims Database Study 7 Diabetes mellitus and risk of early-onset Alzheimer's disease: a population-based case- control study Exploratory evaluation of a commercially available Japanese medical record database as an external control for comparative clinical trials in new drug development: Amyotrophic lateral sciences of the presence of the second database of the second database and antispleptic drugs in Japan: Data from a health administrative database 9 Examistion of the prescription of antiepleptic drugs to prenatal and postpartum women in Japan from a health administrative database 9 Examistion of the number of children with cerebral palsy using nationwide health Insurance claims for behavioral health patients in Japan 9 Recent oreview of patients with anti-N-methyl-D-aspartate receptor encephalitis using a national inpatient database in Japan 9 Recent oreview of patients with anti-N-methyl-D-aspartate receptor encephalitis using a national inpatient database in Japan 9 Recent treatment patterns and variations for pediatric acute encephalopathy associated with virial and other pathogens 9 Recent treatment patterns and variations for pediatric acute encephalopathy in Japan 9 Phenytoin versus fosphenytoin for second-line treatment of status epilepticus: propensit; score matching analysis using a nationwide inpatient database 9 Prescription patterns of antiepleptic drugs for adult patients with database 9 Prescription patterns of antiepleptic drugs for adult patients with advisions for pediatric acute encephalopathy daposed focal	JMDC MDV JMDC JMDC JMDC JMDC DPC DPC DPC DPC V DPC	pharmacy claims databases (operated by four community pharmacy chains) compared with phase	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2005 2008 2005 2005 2012 2014 2010 2010 2010	2016 2016 M 2016 M 2013 Cl di 2015 H 2017 M 2018 Cl di 2018 Cl di 2016	Clinical epidemiology, course of diseases Intervention effect ledical treatment status ledical treatment status linical epidemiology, course of iseases ledical treatment status linical epidemiology, course of iseases Medical treatment status	Diseases of the nervous system Research methodology Diseases of the nervous system Health policy evaluation and Diseases of the nervous system utilization	metabolic diseases Pregnancy, childbirth and the puerperium Pregnancy, childbirth and the puerperium Others	Alzheimer's disease (AD), Diabetes mellitus Amyotrophic lateral sclerosis antiepileptic drugs, folic acid (prenatal and postpartum women) antiepileptic drugs, prenatal and postpartum women cerebral palsy behavioral health patients: 630-31 (dementia), chronic medical condition anti-MMAR encephaltis/(ICD-10 code G048 o G049) Acute encephaltis/encephalopathy pediatric acute encephalopathy	Others Others Children Others r Children Children	aged 40–64 years aged 18-75 years aged below 20 years 18 years and older age categories aged ≤18 years between 1 month and 15 years of age
Kadohara 201 Fukamachi 2018 Ishikawa 2019 Toyokawa 2017 Kishi 2020 Shigemi 2019 Hatachi 2020 Hatachi 2020 Hayakawa 2020 Nakamura 2020	A Descriptive Pharmacy Claims Database Study Tolabetes melitius and risk of early-onset Alzheimer's disease: a population-based case- control study Exploratory evaluation of a commercially available Japanese medical record database as an external control for comparative clinical trials in new drug development: Amyotrophic lateral sciences and prescription of anti-pileptic drugs to prescribed antipileptic drugs in Japan: Data from a health administrative database Examination of the prescription of anti-pileptic drugs to prenatal and postpartum women in Japan from a health administrative database Eximation of the number of children with cerebral palsy using nationwide health Insurance claims data in Japan General medical claims for behavioral health patients in Japan Recent overview of patients with anti-N-methyl-D-aspartate receptor encephalitis using a national impatient database in Japan Prognostic factors among children with acute encephalitis/encephalopathy associated with virial and other pathgens Recent treatment patterns and variations for pediatric acute encephalopathy in Japan Phenytoin versus fosphenytoin for second-line treatment of status epilepticus: propensit score matching analysis using a nationwide inpattent database	JMDC MDV JMDC JMDC JMDC JMDC DPC DPC DPC DPC V DPC	pharmacy claims databases (operated by four community pharmacy chains) compared with phase	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2005 2008 2005 2005 2012 2014 2010 2010 2010 2011	2016 2016 M 2016 M 2013 C di 2013 H 2015 H 2017 M 2018 C di 2016 2015 In	Clinical epidemiology, course of diseases Intervention effect Iedical treatment status Iedical treatment status Inical epidemiology, course of seases ealth economics Iedical treatment status Iinical epidemiology, course of seases Medical treatment status itervention effect	Diseases of the nervous system Research methodology Diseases of the nervous system Health policy evaluation and Diseases of the nervous system Utilization Quality of care Diseases of the nervous system	metabolic diseases Pregnancy, childbirth and the puerperium Pregnancy, childbirth and the puerperium Others	Alzheimer's disease (AD), Diabetes mellitus Anyotrophic lateral sclerosis antiepileptic drugs, folic acid (prenatal and postpartum vomen) antiepileptic drugs, prenatal and postpartum women cerebral palsy behavioral health patients: G30-31 (dementia), chronic medical condition anti-WMDAR encephalitis (ICD-10 code G048 o G049) pediatric acute encephalopathy epilepticus (ICD-10 code: G41)	Others Others Children Others r Children Children Children Others	aged 40–64 years aged 18-75 years aged below 20 years 18 years and older age categories aged ≤18 years between 1 month and 10 years of age ≥16 year of age
Kadohara 201 Fukamachi 2018 Ishikawa 2020 Toyokawa 2017 Kishi 2020 Shigemi 2019 Hatachi 2020 Hayakawa 2020 Nakamura 2020 Nakamura 2020	A Descriptive Pharmacy Claims Database Study 7 Diabetes melitus and risk of early-onset Alzheimer's disease: a population-based case- control study Exploratory evaluation of a commercially available Japanese medical record database as an axternal control for comparative clinical trials in new drug development: Amyotrophic lateral sciences 0 Folic acid prescribed to prematal and postpartum women who are also prescribed anticeplegic drugs in Japan: Data from a health administrative database 0 Examination of the prescription of anticeplepic drugs to prenatal and postpartum women in Japan from a health administrative database 0 Examination of the prescription of anticeplepic drugs to prenatal and postpartum women in Japan from a health administrative database 0 Examination of the prescription of anticeplepic drugs to prenatal and postpartum women in Japan from a health administrative database 0 Examination of the prescription patients with administrative database 0 Examined to the number of children with creater patients in Japan 0 General medical claims for behavioral health patients in Japan 1 Prognostic factors among children with acete encephalitis/encephalopathy associated 0 with virial and other pathogens 1 Recent treatment patterns and avaitations for pediatric acute encephalopathy in Japan 1 Phenytoin versus fosphenytoin for second-line treatment of status epilepticus: propensity core matching analysis using a nationwide inpatient database 1 Prescripton patterns of anticeplicid drugs for adult patients with newly diagnosed focal epilepoy from 2006 to 2017 in Japan 1 Levetiracetam vs. Fosphenytoin for Second-Line Treatment of Status Epilepticus: 1 Propensity Score Matching Analysis Using a Nationwide Inpatient Database 1 Progressity Score Matching Analysis Using a Nationwide Inpatient Database 1 Progressity Score Matching Analysis Using a Nationwide Inpatient Database 1 Progressity Score Matching Analysis Using a Nationwide Inpatient Database 1 Progressity Score Matching Analysis Using a Nationwide Inpatient	JMDC MDV JMDC JMDC JMDC JMDC DPC DPC DPC JMDC JMDC DPC	pharmacy claims databases (operated by four community pharmacy chains) compared with phase	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2005 2008 2005 2005 2012 2014 2010 2010 2010 2010 2011 2006 2011	2016 2016 M 2016 M 2016 M 2013 CL 3013 CL 3013 H 2015 H 2017 M 2018 CL 3016 2015 In 2015 In 2017 2018	Clinical epidemiology, course of diseases Intervention effect ledical treatment status linical epidemiology, course of seases ledical treatment status linical epidemiology, course of iseases Medical treatment status itervention effect Intervention effect	Diseases of the nervous system Research methodology Diseases of the nervous system Health policy evaluation and Diseases of the nervous system Utilization Diseases of the nervous system Quality of care Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system	metabolic diseases Pregnancy, childbirth and the puerperium Pregnancy, childbirth and the puerperium Others	Alzheimer's disease (AD), Diabetes mellitus Amyotrophic lateral sclerosis antiepileptic drugs, folic acid (prenatal and postpartum women) antiepileptic drugs, prenatal and postpartum women cerebral palsy behavioral health patients: G30-31 (dementia), chronic medical condition anti-NMDAR encephalitis (ICD-10 code G648 o G049) Acute encephalopathy pediatric acute encephalopathy epilepticus (ICD-10 code: G41) epileptous	Others Others Children Others r Children Children Others Others Others	aged 40–64 years aged 18-75 years aged 18-75 years aged 20 years 18 years and older age categories aged ≤18 years between 1 month and 15 years of age ≥16 year of age aged 20-65 years aged ≥15 years
Kadohara 201 Fukamachi 2018 Ishikawa 2020 Ishikawa 2020 Toyokawa 2000 Hatachi 2020 Hatachi 2020 Hayakawa 2020 Chen 2021 Nakamura	A Descriptive Pharmacy Claims Database Study 7 Diabetes melitus and risk of early-onset Alzheimer's disease: a population-based case- control study Exploratory evaluation of a commercially available Japanese medical record database as an external control for comparative clinical trials in new drug development: Amyotrophic lateral sciences 9 Folic acid prescribed to prenatal and postpartum women who are also prescribed anticipleptic drugs in Japan: Data from a health administrative database 9 Examination of the prescription of antiepileptic drugs to prenatal and postpartum women in Japan from a health administrative database 9 Examination of the number of children with cerebral palsy using nationwide health Insurance claims data in Japan 9 General medical claims for behavioral health patients in Japan 9 Prognostic factors among children with acute encephallitis/encephalopathy associated with viral and other pathogens 9 Recent treatment patterns and variations for prediatric acute encephalpathy in Japan 9 Pregnostic factors among children with acute encephallitis/encephalopathy associated with viral and other pathogens 9 Recent treatment patterns and variations for prediatric acute encephalopathy in Japan 9 Preprotion versus fosphenytoin for second-line treatment of status epilepticas: propensite score matching analysis using antionwide inpatient database 9 Prescription patterns of antiepileptic drugs for adult patients with newly diagnosed focal epilepty from 2006 to 2011 in Japan 9 Constitution patterns of antiepileptic drugs for adult patients with newly diagnosed focal epilepty from 2006 to 2011 in Japan 9 Constitution patterns of antiepileptic drugs for adult patients with newly diagnosed focal epilepty from 2006 to 2011 in Japan 9 Constitution of the pathogens 9 Constitution patterns of antiepileptic drugs for adult patients with newly diagnosed focal epilepty from 2006 to 2011 in Japan 9 Constitution of the pathogens 9 Constitution of the pathogens 9 Consthing analysis using a nationwide inpati	JMDC MDV JMDC JMDC JMDC JMDC DPC DPC DPC JMDC JMDC DPC	pharmacy claims databases (operated by four community pharmacy chains) compared with phase	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2005 2008 2005 2012 2014 2010 2010 2010 2010 2011 2006	2016 2016 M 2016 M 2013 Cl di 2013 H 2017 M 2018 Cl di 2018 Cl di 2016 2016 In 2015 In 2017	Clinical epidemiology, course of diseases Intervention effect ledical treatment status ledical treatment status linical epidemiology, course of iseases ledical treatment status linical epidemiology, course of iseases Medical treatment status tervention effect Medical treatment status	Diseases of the nervous system Research methodology Diseases of the nervous system Health policy evaluation and Diseases of the nervous system Utilization Quality of care Quality of care	metabolic diseases Pregnancy, childbirth and the puerperium Pregnancy, childbirth and the puerperium Others	Alzheimer's disease (AD), Diabetes mellitus Amyotrophic lateral sclerosis antiepileptic drugs, folic acid (prenatal and postpartum women) antiepileptic drugs, prenatal and postpartum women carebral palsy behavioral health patients: G30-31 (dementia), chronic medical condition anti-NMDRR encephalitis (ICD-10 code G48 o G049) Acute encephalopathy pediatric acute encephalopathy epilepticus (ICD-10 code: G41) epilepty	Others Others Children Others r Children Children Others Others	aged 40–64 years aged 18–75 years aged below 20 years 18 years and older age categories aged ≤18 years between 1 month and 15 years of age ≥16 year of age aged 20–65 years
Kadohara 201 Fukamachi 2018 Ishikawa 2020 Ishikawa 2019 Toyokawa 2017 Kishi 2020 Shigemi 2019 Hatachi 2020 Nakamura 2020 Ochen 2021 Nakamura 2020 Nakamura	A Descriptive Pharmacy Claims Database Study 7 Diabetes mellitus and risk of early-onset Alzheimer's disease: a population-based case- control study Exploratory evaluation of a commercially available Japanese medical record database as an external control for comparative clinical trials in new drug development: Amyotrophic lateral sciences 9 Folic acid prescribed to prenatal and postpartum women who are also prescribed anticepleptic drugs in Japan: Data from a health administrative database 9 Examination of the prescription of antiepleptic drugs to prenatal and postpartum women in Japan from a health administrative database 9 Estimation of the number of children with crebral palsy using nationwide health insurance claims data in Japan General medical claims for behavioral health patients in Japan Prognostic factors among children with acute encephalitis/encephalopathy associated with viral and other pathogans Recent transment patterns and variations for pediatric acute encephalopathy in Japan Pherytoin versus fosphenytoin for second-line treatment of status epilepticus: propressity Societ 2017 in Japan Prescription patterns of antiepileptic drugs for adult patients with newly diagnosed focal epilepsy from 2006 to 2017 in Japan Levetiracetam vs. Fosphenytoin for Second-Line Treatment of status Epilepticus: Propensity Societ Aduction Study in Japan Status Epilepticus: Changes in Real-world Practice Patterns of Antiepileptic Drugs for Status Epilepticus: Risk of Extranyternidi Study in Japan	JMDC MDV JMDC JMDC DPC DPC DPC JMDC DPC JMDC DPC DPC DPC	pharmacy claims databases (operated by four community pharmacy chains) compared with phase	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2005 2008 2005 2005 2012 2014 2010 2010 2010 2010 2011 2006 2011	2016 2016 M 2016 M 2016 M 2013 CL 3013 CL 3013 H 2015 H 2017 M 2018 CL 3016 2015 In 2015 In 2017 2018	Clinical epidemiology, course of diseases Intervention effect ledical treatment status linical epidemiology, course of seases ledical treatment status linical epidemiology, course of iseases Medical treatment status itervention effect Intervention effect	Diseases of the nervous system Research methodology Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system Intervention effect Diseases of the nervous system Health policy evaluation and Diseases of the nervous system Diseases of the nervous system Quality of care Diseases of the nervous system Diseases of the nervous system Diseases of the nervous system	metabolic diseases Pregnancy, childbirth and the puerperium Pregnancy, childbirth and the puerperium Others	Alzheimer's disease (AD), Diabetes mellitus Amyotrophic lateral sclerosis antiepileptic drugs, folic acid (prenatal and postpartum women) antiepileptic drugs, prenatal and postpartum women cerebral palsy behavioral health patients: G30-31 (dementia), chronic medical condition anti-NMDAR encephalitis (ICD-10 code G648 o G049) Acute encephalopathy pediatric acute encephalopathy epilepticus (ICD-10 code: G41) epilepticus	Others Others Children Others r Children Children Others Others Others	aged 40–64 years aged 18-75 years aged 18-75 years aged 20 years 18 years and older age categories aged ≤18 years between 1 month and 15 years of age ≥16 year of age aged 20-65 years aged ≥15 years
Kadohara 201 Fukamachi 2018 Ishikawa 2020 Ishikawa 2019 Toyokawa 2017 Kishi 2020 Shigemi 2019 Hatachi 2020 Nakamura 2020 Ohen 2021 Nakamura 2020 Nakamura 2020 Nakamura 2020 Nakamura	A Descriptive Pharmacy Claims Database Study 7 Diabetes melitus and risk of early-onset Alzheimer's disease: a population-based case- control study Exploratory evaluation of a commercially available Japanese medical record database as an external control for comparative clinical trials in new drug development: Amyotrophic lateral actorsis 9 Folic acid prescribed to prenatal and postpartum women who are also prescribed anticeliptic droigs in Japan: Data from a health daministrative database 9 Examisation of the prescription of antiepileptic drugs to prenatal and postpartum women in Japan from a health administrative database 9 Examisation of the mumber of children with cerebral palsy using nationwide health Insurance claims data in Japan General medical claims for behavioral health patients in Japan 9 Recent overview of patients with anti-N-methyl-D-aspartate receptor encephalitis using a national impatient database in Japan 9 Recent overview of patients with anti-N-methyl-D-aspartate receptor encephalitis using a national impatient database in Japan 9 Recent treatment patterns and variations for pediatric acute encephalopathy in Japan 9 Recent treatment patterns and avairations for pediatric acute encephalopathy in Japan 9 Prepriotin versus fosphenytoin for second-line treatment of status epilepticus: propensit; score matching analysis using a nationwide inpatient database 9 Prescription patterns of antiepileptic drugs for adult patients with newly diagnosed focal epilepsity from 2006 to 2011 in Japan 10 Evertimaterns - 5 pathepticing for Sacod-Line Treatment of Status Epilepticus: 11 Evertimaters - 5 pathepticing in Sacod Jane 10 Japan 10	JMDC MDV JMDC JMDC DPC DPC DPC JMDC DPC JMDC DPC DPC DPC	pharmacy claims databases (operated by four community pharmacy chaims) compared with phase 3 trials	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2005 2008 2005 2005 2012 2014 2010 2010 2010 2011 2006 2011	2016 2016 M 2016 M 2013 Cl 2015 H 2017 M 2018 Cl 2016 2016 2017 I 2018 2017 2018 2017 2018 2018	Clinical epidemiology, course of diseases Intervention effect ledical treatment status ledical treatment status linical epidemiology, course of seases ealth economics ledical treatment status Medical treatment status itervention effect Intervention effect Medical treatment status	Diseases of the nervous system Research methodology Diseases of the nervous system Health policy evaluation and Diseases of the nervous system Useases of the nervous system Quality of care Diseases of the nervous system Diseases of the nervous system Quality of care Diseases of the nervous system Intervention effect Diseases of the nervous system	metabolic diseases Pregnancy, childbirth and the puerperium Pregnancy, childbirth and the puerperium Others	Alzheimer's disease (AD), Diabetes mellitus Amyotrophic lateral sclerosis antiepileptic drugs, folic acid (prenatal and postpartum women) antiepileptic drugs, prenatal and postpartum women cerebral palsy behavioral health patients: G30-31 (dementia), chronic medical condition anti-MMDAR encephalitis (ICD-10 code G048 o G049) Acute ancephalitis/encephalopathy pediatric acute encephalopathy epilepticus (ICD-10 code: G41) epilepticus	Others Others Children Others r Children Children Others Others Others	aged 40–64 years aged 18-75 years aged 18-75 years aged 20 years 18 years and older age categories aged ≤18 years between 1 month and 15 years of age ≥16 year of age aged 20-65 years aged ≥15 years

pati 2020 Gui Matsuda 2010 Ep Mizobuchi The 2017 Spa Mizobuchi The Mizobuchi The Mizobuchi The Ogino 2018 Tre: Gino 2018 Tre: Mouri 2020 Eff Murai 2019 Cin Mouri 2020 Eff Murai 2019 Cin Jagino 2015 ITh Jagino 2015 ITh Jagino 2015 ITh Jady Jady Nakamura Mouri 2020 Kataata 2018 Pre Adm Suzuki 2020 Makaoka 2014 Pree Ochi 2017 More Ochi 2017 More Ochi 2017 More Jagino 2014 Ire Makaoka 2014 Pree Adm Suzuki 2020 More Adm Suzuki 2020 Adm Jan	existing infectious diseases on admission as a risk factor for mechanical ventilation in distant with Guillan-Barre syndrome fact of Early Tracheostomy on Mortality of Mechanically Ventilated Patients with allain-Barre Syndrome: A Nationvide Observational Study the Current Status of Microsocalar Decompression for the Treatment of Hemifacial e Current Status of Microsocalar Decomposition for the Treatment of Hemifacial term in Japan: An Analysis of 2007 Patients Using the Japanese Diagnosis Procedure minimiton Database eatment patterns and characteristics of patients with migraine in Japan: A troppective analysis of halth insurance claims data usins in a patient. An Analysis of 2007 Patients with migraine in Japan based or adjusis of a halth insurance claim data data and comorbidities of multiple sclerosis in Japan based on analysis a halth insurance claims database eatement and comorbidities of multiple sclerosis in Japan based on analysis a halth insurance claims database fact of Sugammadox on Postoperative Myasthenic Crisis in Myasthenia Gravis tistist: Propensity Score Analysis of Treatment for the Nervous Diseases by the Area dgring from Receipt Database lead-most and balthases of Treatment for the Nervous Diseases by the Area dgring from Receipt Database ligh-cost medical care in intractable neuroimmunological diseases : Is the DPC/PDPS yment system efficient for this population?]	DPC DPC DPC JMDC JMDC JMDC JMDC DPC MDV Others Others	DPC research group DPC research Institute Health Insurance Claims Review & Reimbursement services, Nasional Health Insurance Claims Review & Reimbursement	Nationwide	201 201 200 201 200 200 200 200 200 200	10 2 D8 2 10 2 11 2 D8 2 D5 2 D5 2 D6 2 D7 2 D8 2 D9 2 D9 2 D9 2 D9 2	dise 2018 2008 2013 2014 2014 2016 2014 2016 2014 2016 Inte	ical epidemiology, course of asses Intervention effect Research methodology Medical treatment status Clinical epidemiology, course of diseases Clinical epidemiology, course of diseases Clinical epidemiology, course of diseases Medical treatment status rivention effect Clinical epidemiology, course of diseases Socioeconomic comparison	Diseases of the nervous system Diseases of the nervous system Medical treatment status Diseases of the nervous system Intervention effect Diseases of the nervous system Intervention effect Diseases of the nervous system Intervention effect Diseases of the nervous system Medical treatment status Diseases of the nervous system Medical treatment status Diseases of the nervous system Health economics Diseases of the nervous system Diseases of the nervous system Patient health service utilization Diseases of the nervous system Health economics Diseases of the nervous system Patient health service utilization Diseases of the nervous system Health economics Diseases of the nervous system		Guillain-Barre Syndrome Guillain-Barre Syndrome (ICD-10 code: G610) Guillain-Barre Syndrome Hemifacial Spasm (G 513) migraine multiple sclerosis (G35) multiple sclerosis (G35) multiple sclerosis (G35) Myasthenia Gravis (ICD-10 code: G70.0) myasthenia gravis (G70.0) Nervous Diseases	Others Others Others Others Others Others	age group aged 18 years or older aged ≥18 years <65 years old aged ≥20 years aged ≥18 years
2020 Gui Matsuda 2010 Ep Matsuda 2010 The Mizobachi The 2017 Spa Mizobachi The 2017 Spa Ogino 2018 Tre ana Ogino 2018 Tre ana Ogino 2016 Cur Mouri 2020 Effe Pat Murai 2019 Clin As Ogino 2015 ITh Jady Murai 2019 Clin As Ogino 2014 [Hitig pay Nakamura Moor Cor Mirakato 2018 Cro Adr Suzuki 2020 Adr Suzuki 2020 Nakaoka 2014 Pre Ochi 2017 Ocho 2011 The ana Ina Iketani 2020 Risi ati	alilain-Barre Syndrome: A Nationwide Observational Study pidemiological study of Galilain-Barre syndrome cased on DPC database] de Current Statuta of Microvascular Decompression for the Treatment of Hemifacial asam in Japan: An Analysia Of 2907 Patients Using the Japanese Diagnosis Procedure minination Database eatment patterns and characteristics of patients with migraine in Japan: A trospective analysis of health insurance claims data construction of medical cost and relapse rate of multiple sclerosis in Japan based on alysis of a health insurance claims database eatment and comotifities of multiple sclerosis in Japan based on analysis a health insurance claims database evalence, treatments and medical cost of multiple sclerosis based on analysis of a health insurance claims database evalence, treatments and medical cost of multiple sclerosis based on analysis of a panese claims database feet of Sugammadox on Postoperative Myasthenic Crisis in Myasthenia Gravis tistest: Propensity Score Analysis of a Japanese Nationvide Database inclus brodin and healthcare resource utilization associated with myasthenia gravis; easements from a Japanese claims database heanalysis of Heavenness of Treatment for the Nervous Diseases by the Area dging from Receipt Data]	DPC	Institute Institute Health Insurance Claims Review & Reinbursament services, National Health Insurance Organization Health Insurance Claims Review &	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide	200 201 201 200 200 200 200 200 201 201	DB 2 DB 2 10 2 11 2 DB 2 DD5 2 DD5 2 DD5 2 DD5 2 DD5 2 DD5 2 DD8 2 DD8 2 DD8 2	2008 2013 2014 2016 2016 2016 2016 2016 Inte 2016 Inte	Research methodology Medical treatment status Clinical epidemiology, course of diseases Health economics Clinical epidemiology, course of diseases Clinical epidemiology, course of diseases Medical treatment status rivention effect Clinical epidemiology, course of diseases	Medical treatment status Diseases of the nervous system Intervention effect Diseases of the nervous system Medical treatment status Diseases of the nervous system Intervention effect Diseases of the nervous system Medical treatment status Diseases of the nervous system Health economics Diseases of the nervous system Diseases of the nervous system Patient health service utilization Diseases of the nervous system		Guillain-Barre syndrome Hemifacial Spasm (G 513) migraine multiple sclerosis (G35) multiple sclerosis (G35) multiple sclerosis (G35) multiple sclerosis (G35) Myasthenia Gravis (ICD-10 code: G70.0) myasthenis gravis (G70.0)	Others Others Others	aged ≥18 years <65 years old aged ≥20 years
Matsuda 2010 [Ep Mizobuchi The Mizobuchi The Con Meyers 2019 Tre- retr Kawachi 2019 Rec ana Ogino 2018 Tre- ana Ogino 2018 Tre- ana Ogino 2018 Tre- da ana Ogino 2018 Tre- gan Ogino 2018 Cirr Jap Mouri 2020 Effe Pat Murai 2019 Clin Judi Ogino 2015 [Th Judi Ogino 2015 [Th Judi Ogino 2015 [Th Judi Nakamura Moo Suzuki 2020 Adh Irrakata 2018 Pre- Ana Suzuki 2020 Adh Iong Nakaoka 2014 Prei Olchi 2017 Moo Iong 2017 The Iong 2017 Adh Iong Nakaoka 2014 Prei Olchi 2017 Moo Iong 2017 The Ana Nakaoka 2014 Prei Olchi 2017 Moo Iong 2017 Nobel 2017 Nobel 2017 Nobel 2017 Nobel 2017 Nobel 2017 Nobel 2010 Nobel 2017	pidemiological study of Guillain-Barre syndrome cased on DPC database] in G Current Status of Microvascular Decompression for the Treatment of Hemifacial asm in Japan: An Analysis of 2907 Patients Using the Japanese Diagnosis Procedure mbination Database eatment patterns and characteristics of patients with migraine in Japan: A trospective analysis of health insurance claims data database eatment patterns and characteristics of patients with migraine in Japan: A trospective analysis of health insurance claims data database eatment and compared transmission of multiple sclerosis in Japan based or adysis of health claims data eatment and comorbidities of multiple sclerosis in an employed population in Japan: alysis of health claims data a health insurance claims database feet of Sugammadex on Postoperative Myasthenic Cristis in Myasthenia Gravis tirtist: Prognesity Socer Analysis of a Japanes Nationvale Database feet of Sugammadex on Postoperative Myasthenic Cristis in Myasthenia gravis: sessements from a Japanese claims database feet of Sugammadex on Postoperative Myasthenic Cristis in Myasthenia gravis: sessements from a Japanese claims database Heanlaysis of the Unevenness of Treatment for the Nervous Diseases by the Area dging from Receipt Data] ligh-cost medical care in intractable neuroimmunological diseases : Is the DPC/PDPS yment system efficient for this population?] ortality of neuroleptic malignant syndrome induced by typical and atypical antipsychotic	DPC JMDC MDV JMDC JMDC DPC MDV Others Others	Institute Institute Health Insurance Claims Review & Reinbursament services, National Health Insurance Organization Health Insurance Claims Review &	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide	201 201 200 200 200 200 201 201 200 201 200	10 2 11 2 08 2 05 2 05 2 08 2 08 2 08 2 08 2 08 2 08 2 08 2	2013 2014 2016 2014 2016 2014 2016 Inte 2016 Inte	Medical treatment status Clinical epidemiology, course of diseases Health economics Clinical epidemiology, course of diseases Clinical epidemiology, course of diseases Medical treatment status rivention effect Clinical epidemiology, course of diseases	Intervention effect Diseases of the nervous system Medical treatment status Diseases of the nervous system Intervention effect Diseases of the nervous system Medical treatment status Diseases of the nervous system Health economics Diseases of the nervous system Diseases of the nervous system Patient health service utilization Diseases of the nervous system		Hemifacial Spasm (6 513) migraine multiple sclerosis (G35) multiple sclerosis (G35) multiple sclerosis (G35) multiple sclerosis (G35) Myasthenia Gravis (G70.0) myasthenis gravis (G70.0)	Others Others	<65 years old aged ≥20 years
Mizebuchi The 2017 Span Meyers 2019 Ter Rawachi 2019 Ter Kawachi 2019 Ter ana Ogino 2018 Tre- ana Ogino 2018 Tre- ana Ogino 2017 Pre of a Ogino 2017 Pre of a Ogino 2010 Cur Murai 2019 Clin Murai 2019 Clin Judy Ogino 2015 (Th Judy Ogino 2015 (Th Judy Ogino 2015 (Th Judy Ogino 2015 (Th Judy Nakamura Moto 2012 Con Hirakata 2018 Pre Olichi 2017 Moto Rakaoka 2014 Pre Olichi 2017 Moto Rakaoka 2014 The ana Iketani 2020 Risi ath	le Current Slatus of Microvascular Decompension for the Treatment of Hemifacial asam in Japan: An Analysis of 2907 Patients Using the Japanese Diagnosis Procedure ombination Database eatment patterns and characteristics of patients with migraine in Japan: A trospective analysis of health insurance claims data corent transition of medical cost and release rate of multiple sclerosis in Japan based on alysis of a health insurance claims data eatment and comover the selection of the selection of the selection of the avence, treatments and medical cost of multiple sclerosis in Japan based on analysis a health insurance claims database evalence, treatments and medical cost of multiple sclerosis based on analysis of a health insurance claims database fact of Sugammadox on Postoperative Myasthenic Crisis in Myasthenia Gravis tituts: Progenity Score Analysis of Japanese Alamionide Database inical burden and healthcare resource utilization associated with myasthenia gravis: seasments from a Japanese claims database hindel burden and healthcare resource utilization associated with myasthenia gravis: seasments from a Japanese I Treatment for the Nervous Diseases by the Area dging from Receipt Data]	DPC JMDC MDV JMDC JMDC DPC MDV Others Others	Institute Institute Health Insurance Claims Review & Reinbursament services, National Health Insurance Organization Health Insurance Claims Review &	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide	201 201 200 200 200 200 201 201 200 201 200	10 2 11 2 08 2 05 2 05 2 08 2 08 2 08 2 08 2 08 2 08 2 08 2	2013 2014 2016 2014 2016 2014 2016 Inte 2016 Inte	Medical treatment status Clinical epidemiology, course of diseases Health economics Clinical epidemiology, course of diseases Clinical epidemiology, course of diseases Medical treatment status rivention effect Clinical epidemiology, course of diseases	Intervention effect Diseases of the nervous system Medical treatment status Diseases of the nervous system Intervention effect Diseases of the nervous system Medical treatment status Diseases of the nervous system Health economics Diseases of the nervous system Diseases of the nervous system Patient health service utilization Diseases of the nervous system		Hemifacial Spasm (6 513) migraine multiple sclerosis (G35) multiple sclerosis (G35) multiple sclerosis (G35) multiple sclerosis (G35) Myasthenia Gravis (G70.0) myasthenis gravis (G70.0)	Others Others	<65 years old aged ≥20 years
2017 Spap Com Meyers 2019 Tree rett Kawachi 2019 Rec Kawachi 2019 Rec More 2018 Tree ana Ogino 2018 Tree ana Ogino 2017 Pre Mouri 2020 Effe Pat Mouri 2020 Effe Pat Murai 2019 Clin Ass Ogino 2015 [Th Pat Ogino 2014 [Hiti pay Nakamura Mor 2010 drug Com Nakaoka 2014 Pre Nakaoka 2014 Pre Olichi 2017 Mor Olichi 2017 Mor Nakaoka 2014 Pre	aasm in Japan: An Analysis of 2007 Patients Using the Japanese Diagnosis Procedure imbination Database adment patterns and characteristics of patients with migraine in Japan: A trospective analysis of health insurance claims data concent transition of medical cost and relapse rate of multiple sciences in Japan based on alysis of a health insurance claims database eatement and concentrolities of multiple sciences in Japan based on analysis of health claims data availence, treatments and medical cost of multiple sciences in Japan based on analysis a health insurance claims database ment treatments and medical cost of multiple sciences in Japan based on analysis a health insurance claims database field of Sugammadex on Portogerative Myasthenic Crisis in Myasthenia Gravis tients: Propensity Score Analysis of a Japanese Nationvide Database field of Sugammadex on Portogerative Myasthenic Crisis in Myasthenia gravis: sessments from a Japanese claims database be Analysis of the Unevenness of Treatment for the Nervous Diseases by the Area dging from Receipt Data]	MDV JMDC JMDC MDV DPC Others Others	Health Insurance Claims Review & Reimbursement services, National Health Insurance Organization Health Insurance Claims Review &	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide	201 200 200 200 200 201 201 200 200	11 2 08 2 05 2 05 2 08 2 08 2 08 2 08 2 08 2 08 2	2014 2016 2014 2016 2016 2016 Inte 2016 Inte	Clinical epidemiology, course of diseases Health economics Clinical epidemiology, course of diseases Clinical epidemiology, course of diseases Medical treatment status rivention effect Clinical epidemiology, course of diseases	Medical treatment status. Diseases of the nervous system Intervention effect. Diseases of the nervous system Medical treatment status. Diseases of the nervous system Health economics. Diseases of the nervous system Diseases of the nervous system Patient health service utilization. Diseases of the nervous system		migraine multiple sclerosis (G35) multiple sclerosis (G35) multiple sclerosis (G35) multiple sclerosis (G35) Myasthenia Gravis (ICD-10 code: G70.0) myasthenia gravis (G70.0)	Others Others	<65 years old
Meyers 2019 Tre- retr Kawachi 2019 Rec ana Ogino 2018 Tre display the second second of a control of a Ogino 2016 Cur Jap Mouri 2020 Effe Pat Murai 2019 Clin Murai 2019 Clin Murai 2019 Clin Murai 2019 Clin Murai 2019 Clin Ass Ogino 2015 (Th Jad Ogino 2014 (Hit pay Nakamura Moo 2012 dru Con Hirakata 2018 Pre Adn Suzuki 2020 Adh Ion Nakaoka 2014 Pre Olchi 2017 Moo retr Ooba 2011 The ana Iketani 2020 Riss anti	eatment patterns and characteristics of patients with migraine in Japan: A trospective analysis of medical cost and relapse rate of multiple sciencis in Japan based or alysis of a health insurance claims database eatement and comorbidites of multiple sciencis in a employed population in Japan: alysis of a health insurance claims database eatement and comorbidites of multiple sciencis in an employed population in Japan: alysis of health claims data a health insurance claims database areath reatments and medical cost of multiple sciencis based on analysis of a baneth insurance claims database fact of Sugammadex on Postoperative Myasthenic Crisis in Myasthenia Gravis: titents: Propensity Score Analysis of a Japanese Nationvide Database fact of Sugammadex on Postoperative Myasthenic Crisis in Myasthenia gravis: seasments from a Japanese claims database be Analysis of the Unevenness of Treatment for the Nervous Diseases by the Area dging from Receipt Data] ligh-cost medical care in intractable neuroimmunological diseases : Is the DPC/PDPS yment system efficient for this population?] ortality of neuroleptic malignant syndrome induced by typical and atpipcal antipsychotic	MDV JMDC JMDC MDV DPC Others Others	Claims Review & Reimbursement services, National Health Insurance Organization Health Insurance Claims Review &	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide	200 200 200 200 201 201 200 200	08 2 05 2 05 2 05 2 08 2 10 2 08 2	2016 2014 2016 2014 2016 Inte 2016	diseases Health economics Clinical epidemiology, course of diseases Clinical epidemiology, course of diseases Medical treatment status revention effect Clinical epidemiology, course of diseases	Intervention effect Diseases of the nervous system Medical treatment status Diseases of the nervous system Health economics Diseases of the nervous system Health economics Diseases of the nervous system Diseases of the nervous system Patient health service utilization Diseases of the nervous system		multiple sclerosis (G35) multiple sclerosis (G35) multiple sclerosis (G35) multiple sclerosis (G35) multiple sclerosis (G35) Myasthenia Gravis (ICD-10 code: G70.0) myasthenia gravis (G70.0)	Others Others	<65 years old aged ≥20 years
Kawachi 2019 Rec ana Ogino 2018 Tre- ana Ogino 2017 Pre- of a Ogino 2016 Cur Pat Murai 2019 Clin Japi Mouri 2000 Effe Pat Murai 2019 Clin Jadi Ogino 2015 (Th Jadi Ogino 2015 (Th Jadi Ogino 2014 (Hiti pay Nakamura Moo 2012 Con Hirrakata 2018 Pre- Adn Suzuki 2020 Adh Suzuki 2020 Adh Suzuki 2020 Adh Suzuki 2020 Adh Ing Nakaoka 2014 Pre- Olchi 2017 Moo retr Ooba 2011 The ana Iketani 2020 Risi anti	cent transition of medical cost and relapse rate of multiple sclerosis in Japan based or alwyise of a health insurance claims database eatement and concentrolifies of multiple sclerosis in a memory of population in Japan: alwyise of health claims data alweakees, transments and medical cost of multiple sclerosis in Japan based on analysis a health insurance claims database externet ratatument status and medical cost for multiple sclerosis based on analysis of a panese claims database feet of Sugammadex on Postoperative Myasthenic Crisis in Myasthenia Gravis tintest: Progensity Score Analysis of a Japanese Alamioard Batabase inical burden and healthcare resource utilization associated with myasthenia gravis: assesments from a Japanese claims database diging from Receipt Data] igh-cost medical care in intractable neuroimmunological diseases : Is the DPC/PDPS yment system efficient for this population?] ortality of neuroleptic malignant syndrome induced by typical and atpipcal antipsychotic	JMDC JMDC MDV DPC Others Others	Claims Review & Reimbursement services, National Health Insurance Organization Health Insurance Claims Review &	Nationwide Nationwide Nationwide Nationwide Nationwide	200 200 201 201 200 200	D5 2 D5 2 D8 2 10 2 D8 2	2014 2016 2014 2016 Inte 2016	Health economics Clinical epidemiology, course of diseases Clinical epidemiology, course of diseases Medical treatment status rvention effect Clinical epidemiology, course of diseases	Medical treatment status Diseases of the nervous system Health economics Diseases of the nervous system Health economics Diseases of the nervous system Diseases of the nervous system Patient health service utilization Diseases of the nervous system		multiple sclerosis (G35) multiple sclerosis (G35) multiple sclerosis (G35) Myasthenia Gravis (ICD-10 code: G70.0) myasthenis gravis (G70.0)	Others	aged ≥20 years
Ogino 2018 Tre ana Ogino 2017 Pre of a Japp Mouri 2020 Effe Murai 2019 Clin Japo Murai 2019 Clin Japo Murai 2019 Clin Japo Pat Murai 2019 Clin Japo Pat Murai 2019 Clin Japo Pat Murai 2019 Clin Japo Pat Ass Ogino 2014 [Hi[pay Nakamura Moo Clin 2018 Pre; Ada Suzuki 2020 Alch Nakaoka 2014 Pre: Olchi 2017 Moo Nori Teta Ana Nakaoka 2014 Pre: Olchi 2017 Moo Nakaoka 2014 Res Mata Ana Nakaoka 2014 Res Nakaoka 2014 Res	earment and comorbidities of multiple sclerosis in an employed population in Japan: alysis of health claims data wellnee, treatments and medical cost of multiple sclerosis in Japan based on analysis a health insurance claims database irrent treatment status and medical cost for multiple sclerosis based on analysis of a panese claims database feet of Sugammadex on Postoperative Myasthenic Crisis in Myasthenia Gravis tinical burder and healthcare resource utilization associated with myasthenia gravis: sessments from a Japanese claims database the Analysis of the Unevenness of Treatment for the Nervous Diseases by the Area dging from Receipt Data]	JMDC MDV DPC MDV Others Others	Claims Review & Reimbursement services, National Health Insurance Organization Health Insurance Claims Review &	Nationwide Nationwide Nationwide Nationwide	200 200 201 200 200	05 2 08 2 10 2 08 2	2016 2014 2016 Inte 2016	diseases Clinical epidemiology, course of diseases Medical treatment status revention effect Clinical epidemiology, course of diseases	Health economics Diseases of the nervous system Health economics Diseases of the nervous system Diseases of the nervous system Patient health service utilization Diseases of the nervous system		multiple sclerosis (G35) multiple sclerosis (G35) Myasthenia Gravis (ICD-10 code: G70.0) myasthenis gravis (G70.0)	Others	aged ≥20 years
Ogino 2017 Pre- of a Ogino 2016 Cur Japa Mouri 2020 Effe Pat Murai 2019 Clin Ogino 2015 (Th Japa) Ogino 2015 (Th Jada) Ogino 2015 (Th Jada) Nakamura Mori 2012 Markata 2018 Prej Adn Suzuki 2020 Adh Iong Nakaoka 2014 Prei Otchi 2017 Mori ana Iketani 2020 Risk anti	valence, treatments and medical cost of multiple sclerosis in Japan based on analysis a health insurance claim database internet treatment status and medical cost for multiple sclerosis based on analysis of a panese claims database fect of Sugammadex on Postoperative Myasthenic Crisis in Myasthenia Gravis tintest: Propensity Score Analysis of a Japanese Nationived Database sessments from a Japanese claim database he Analysis of the Unevenness of Treatment for the Nervous Diseases by the Area dging from Receipt Data] ligh-cost medical care in intractable neuroimmunological diseases : Is the DPC/PDPS yment system efficient for this population?] ortality of neuroleptic malignant syndrome induced by typical and atypical antipsychotic	MDV DPC MDV Others Others	Claims Review & Reimbursement services, National Health Insurance Organization Health Insurance Claims Review &	Nationwide Nationwide Nationwide Nationwide	200 201 200 200	08 2 10 2 08 2	2014 2016 Inte 2016	Clinical epidemiology, course of diseases Medical treatment status rvention effect Clinical epidemiology, course of diseases	Health economics Diseases of the nervous system Diseases of the nervous system Patient health service utilization Diseases of the nervous system		multiple sclerosis (G35) Myasthenia Gravis (ICD-10 code: G70.0) myasthenis gravis (G70.0)		
Ogino 2016 Cur Japa Mouri 2020 Effe Pat Murai 2019 Clin Ass Ogino 2015 [Th Judy Ogino 2014 [Hig pay Nakamura Moo 2012 drug Con Hirakata 2018 Pre Adn Suzuki 2020 Adh Ion Nakaoka 2014 Pre Obichi 2017 Moo rett Ooba 2011 The ana Iketani 2020 Risk anti	Irrent treatment status and medical cost for multiple sclerosis based on analysis of a panese claims database feet of Sugammadox on Postoperative Myasthenic Crisis in Myasthenia Gravis tients: Propensity Score Analysis of a Japanese Nationwide Database inical burden and healthcare resource utilization associated with myasthenia gravis; sessments from a Japanese claims database he Analysis of the Unevenness of Treatment for the Nervous Diseases by the Area dging from Receipt Data] ligh-cost medical care in intractable neuroimmunological diseases : Is the DPC/PDPS yment system efficient for this population?] ortality of neuroleptic malignant syndrome induced by typical and atypical antipsychotic	DPC MDV Others Others	Claims Review & Reimbursement services, National Health Insurance Organization Health Insurance Claims Review &	Nationwide Nationwide Nationwide	201 200 200	10 2 08 2	2016 Inte 2016	Medical treatment status ervention effect Clinical epidemiology, course of diseases	Diseases of the nervous system Patient health service utilization Diseases of the nervous system		Myasthenia Gravis (ICD-10 code: G70.0) myasthenis gravis (G70.0)		
Mouri 2020 Effe Pat Murai 2019 Clin Ass Ogino 2015 (Th Jud Ogino 2014 (Hil pay Nakamura Moo 2012 druj Con Hirakata 2018 Pre Adn Suzuki 2020 Adh Ion Nakaoka 2014 Pre Olchi 2017 Moo retr Ooba 2011 Tho an Iketani 2020 Risi anti	ect of Sugammadex on Postoperative Myasthenic Crisis in Myasthenia Gravis tionts: Propensity Score Analysis of a Japanese Nationvide Database inicial burden and healthcare resource utilization associated with myasthenia gravis: sessments from a Japanese claims database he Analysis of the Unevenness of Treatment for the Nervous Diseases by the Area dging from Receipt Data] tigh-cost medical care in intractable neuroimmunological diseases : Is the DPC/PDPS yment system efficient for this population?] ortality of neuroleptic malignant syndrome induced by typical and atypical antipsychotic	MDV Others Others	Claims Review & Reimbursement services, National Health Insurance Organization Health Insurance Claims Review &	Nationwide Nationwide	200	08 2	2016	Clinical epidemiology, course of diseases	Patient health service utilization Diseases of the nervous system		myasthenis gravis (G70.0)		· · ·
Pat Murai 2019 Cilin Ass Ogino 2015 [Th Judy Ogino 2014 [Hig pay Nakamura Molo 2012 dru Con Hirakata 2018 Pre Adn Suzuki 2020 Adh Iong Nakaoka 2014 Prei Oichi 2017 Molo Con 107 Prei Oichi 2017 Molo 107 Prei Anna Nakaoka 2014 Prei Nakaoka 2014 Prei Nakaoka 2014 Prei Nakaoka Prei Nakaoka 2014 Prei	titients: Progensity Score Analysis of a Japanese Nationwide Database inical burden and healthcare resource utilization associated with myasthenia gravis; essements from a Japanese claims database be Analysis of the Unevenness of Treatment for the Nervous Diseases by the Area dging from Receipt Data] ligh-cost medical care in intractable neuroimmunological diseases : Is the DPC/PDPS yment system efficient for this population?] ortality of neuroleptic malignant syndrome induced by typical and atypical antipsychotic	Others Others	Claims Review & Reimbursement services, National Health Insurance Organization Health Insurance Claims Review &	Nationwide	200			diseases				Others	aged ≥18 vears
Ass Ogino 2015 [Th Judy Ogino 2014 [Hig pay Nakamura Moto 2012 drug Con Hirakata 2018 Pre Adn Suzuki 2020 Adh Iong Nakaoka 2014 Pre Oichi 2017 Moto Oichi 2017 Moto ana Iketani 2020 Risk artis	sessments from a Japanese claims database he Analysis of the Unevenness of Treatment for the Nervous Diseases by the Area dging from Receipt Data] ligh-cost medical care in intractable neuroimmunological diseases : Is the DPC/PDPS yment system efficient for this population?] ortality of neuroleptic malignant syndrome induced by typical and atypical antipsychotic	Others Others	Claims Review & Reimbursement services, National Health Insurance Organization Health Insurance Claims Review &	Nationwide	200			diseases				outers	
Judy Ogino 2014 (Hit pay 2012 dru Con Hirakata 2018 Pre Adn Suzuki 2020 Adh Iong Nakaoka 2014 Pre Oichi 2017 Moo retr Ooba 2011 Than Iketani 2020 Risi anti	dging from Receipt Data] ligh-cost medical care in intractable neuroimmunological diseases : Is the DPC/PDPS yment system efficient for this population?] ortality of neuroleptic malignant syndrome induced by typical and atypical antipsychotic	Others	Claims Review & Reimbursement services, National Health Insurance Organization Health Insurance Claims Review &			19 2	2011	Socioeconomic comparison	Health economics. Diseases of the nervous system		Nervous Diseases		
Nakamura Moo 2012 drug Con Hirakata 2018 Pre; Adra Suzuki 2020 Adh Suzuki 2020 Adh Oichi 2017 Moo Oichi 2017 Moo Iletani 2020 Risi anti Adra	yment system efficient for this population?]		Health Insurance Organization Health Insurance Claims Review &	Nationwide									
Nakamura Moo 2012 drug Con Hirakata 2018 Pre; Adra Suzuki 2020 Adh Suzuki 2020 Adh Oichi 2017 Moo Oichi 2017 Moo Iletani 2020 Risi anti Adra	yment system efficient for this population?]		Organization Health Insurance Claims Review &	Nationwide									
Nakamura Moo 2012 drug Con Hirakata 2018 Pre; Adra Suzuki 2020 Adh Suzuki 2020 Adh Oichi 2017 Moo Oichi 2017 Moo Iletani 2020 Risi anti Adra	yment system efficient for this population?]		Claims Review &	Nationwide									
2012 drug Con Hirakata 2018 Prej Suzuki 2020 Adh Iong Nakaoka 2014 Pre Oichi 2017 Moo retr Ooba 2011 The ana Iketani 2020 Risk arti		DPC			201	11 2	2011	Health economics	Medical treatment status Diseases of the nervous system		intractable neuroimmunological diseases		
2012 druy Con Hirakata 2018 Pre Adn Suzuki 2020 Adh Iong Nakaoka 2014 Pre Oichi 2017 Moo retr Ooba 2011 The ana Iketani 2020 Risi anti			services	Nationwide	200	14 2	2008	Intervention effect	Diseases of the nervous system		neuroleptic malignant syndrome (ICD-10 code:		
Adn Suzuki 2020 Adh Nakaoka 2014 Pre- Oichi 2017 Moo retr Ooba 2011 The ana Iketani 2020 Riss anti adm	umbination database			The lot in	200			interrention encor			G210)		
Suzuki 2020 Adh Iong Nakaoka 2014 Pre Oichi 2017 Moo retr Ooba 2011 The ana Iketani 2020 Risk adm	egabalin Prescription for Neuropathic Pain and Fibromyalgia: A Descriptive Study Usinį Iministrative Database in Japan	, MDV		Nationwide	201	10 2	2013 Me	dical treatment status	Diseases of the nervous system		neuropathic pain and fibromyalgia (pregabalin use)		
Oichi 2017 Moo retr Ooba 2011 The ana Iketani 2020 Risk anti adn	Inference to treatment guideline recommendations for Parkinson's disease in Japan: A ngitudinal analysis of a nationwide medical claims database between 2008 and 2016	MDV		Nationwide	200	08 2	2016 Me	dical treatment status	Quality of care Diseases of the nervous system		Parkinson's disease	Others	≥30 years of age
Ooba 2011 The ana Iketani 2020 Risk anti adn	escribing pattern of anti-Parkinson drugs in Japan: a trend analysis from 2005 to 2010	JMDC		Nationwide	200	05 2	2010 Me	dical treatment status	Health policy evaluation and Diseases of the nervous system utilization		Parkinson's disease (G-20)	Others	younger than 30 years were excluded
Ooba 2011 The ana Iketani 2020 Risk anti adm	ortality and morbidity after spinal surgery in patients with Parkinson's disease: a	DPC		Nationwide	201	10 2		ical epidemiology, course of	Diseases of the nervous system	Others	Parkinson's disease, spinal surgery	Others	aged 20 years or older
Iketani 2020 Risk anti adm	trospective matched-pair cohort study e impact in Japan of regulatory action on prescribing of dopamine receptor agonists:	JMDC		Nationwide	200	05 2	2008 Hea	eases alth policy evaluation and	Diseases of the nervous system		Parkinson's disease	Others	age ≥40 years
anti adm	alysis of a claims database between 2005 and 2008 sk stratification for physical morbidity using factors associated with atypical	Others	NHO: MIA databank	Nationwido	201	12 2		ization diction model	Medical treatment status Diseases of the nervous system		Parkinson's disease	Others	aged over 50 years
	as sustinucation for physical motions using factors associated with asyncal tipsychotic treatment in Parkinson's disease: A retrospective observational study using imnistrative claims data		NITO, MIX databalik	Nationwide	201	12 2	.017 116		weulan deathent status. Diseases of the hervous system		Tarkinson's disease	Others	aged over 50 years
	escription pattern of anti-Parkinson's disease drugs in Japan based on a nationwide	MDV		Nationwide	200	08 2	2016	Medical treatment status	Diseases of the nervous system		Parkinson's disease	Others	aged ≥30 years
Iketani 2019 Con	edical claims database mparison of the association of risperidone and quetiapine with deteriorating	DPC	NHO: MIA databank	Nationwide	201	12 2	2017	Intervention effect	Diseases of the nervous system		Parkinson's disease		
	rformance in walking and dressing in subjects with Parkinson's disease: a trospective cohort study using administrative claims data												
Iwaki 2019 Con	omparison of zonisamide with non-levodopa, anti-Parkinson's disease drugs in the cidence of Parkinson's disease-relevant symptoms	MDV		Nationwide	200	08 2	2014	Intervention effect	Diseases of the nervous system		Parkinson's disease	Others	aged ≥40 years
Kasamo 2019 Rea	al-world pharmacological treatment patterns of patients with young-onset Parkinson's sease in Japan: a medical claims database analysis	JMDC		Nationwide	200	05 2	2016	Clinical epidemiology, course of diseases	Medical treatment status Diseases of the nervous system		young-onset Parkinson's disease	Others	aged 21–50 years
Akazawa 2018 Cos	st-Minimization Analysis of Deep-Brain Stimulation Using National Database of	NDB		Nationwide	200	09 2	2015	Health economics	Diseases of the nervous system		Parkinson's disease and other movement		no restriction of age
Nakaoka 2011 Ech	panese Health Insurance Claims hocardiography for the detection of valvulopathy associated with the use of ergot-	JMDC	JMDC-MDB	Nationwide	200	05 2	2008 Me	dical treatment status	Quality of care Diseases of the nervous system	Diseases of the circulatory system	disorders Parkinson's Disease, valvulopathy	Others	excluded younger than
Sengoku 2019 [Tre	rived dopamine agonists in patients with Parkinson's disease reatment of peripheral facial paralysis in Japan: observation study using a health	JMDC		Nationwide	201	10 2	2012	Medical treatment status	Diseases of the nervous system		peripheral facial paralysis		30 years
	surance claims database] cidences and risk factors for postdural puncture headache after neuraxial	DPC		Nationwide	201	10 2	2017	Intervention effect	Clinical epidemiology, course of Diseases of the nervous system	Injury, poisoning and certain other	post-dural puncture headache after neuraxial	Others	aged ≥20 years
ana	aesthesia: A national inpatient database study in Japan ne Association Between Hemoglobin Upswing in the Reference Range and Sleep Apnea	JMDC		Nationwide	201			Clinical epidemiology, course of	diseases Diseases of the nervous system		anaesthesia Sleep apnea syndrome	Others	aged 40 – 59 years
Syn	ndrome							diseases					J
Hos	escribing Pattern of Hypnotic Medications in Patients Initiating Treatment at Japanese	MDV		Nationwide	201	12 2	2016 Mei	dical treatment status	Quality of care Diseases of the nervous system		insomnia		
Maeda 2016 Qua olde	ospitals: A Nationwide, Retrospective, Longitudinal, Observational Study Using a Claims	NHI/LSEHS	Fukuoka Late Stage Elderly Healthcare Insurance Organization	Prefecture	Fukuoka 201 Late Stage Elderly Healthc are	10 2	2013	Intervention effect	Diseases of the nervous system		insomnia	Older persons	aged 75 years and old or those aged 65–74 years

Fujimoto 2014	[The Association between Statin Use and the Risk of Sleep Disturbances: Data Mining of Claims Database]	JMDC		Nationwide	2005	2011 Intervention effect			Diseases of the nervous system	Others	statin use and the risk of sleep disturbances		
Ishikawa 2021	Spinal Cord Infarction after Bronchial Artery Embolization for Hemoptysis: A Nationwide Observational Study in Japan	DPC		Nationwide	2010	2018 Clinical epidemiology, diseases	course of	Intervention effect	Diseases of the nervous system	Others	hemoptysis (ICD-10 codes R042, R048, and R049, spinal cord infarction	Others	aged ≥18 years
Kawahara	[[Development of medical care for spinocerebellar degeneration] (Part 5) Characteristic	MDV		Nationwide	2010	2012 Health economics			Diseases of the nervous system	Diseases of the musculoskeletal	spinocerebellar degeneration, systemic lupus		
2013 Mizobuchi	analysis of medical costs required for SCD and SLE]* The Current Status of Microvascular Decompression for the Treatment of Trigeminal	DPC		Nationwide	2010	2013 Interv	vention effect	M. P. D. Statistics	Diseases of the nervous system	system and connective tissue	erythematosus Trigeminal Neuralgia		
2018	The Current Status of Microvascular Decompression for the Treatment of Trigeminal Neuralgia in Japan: An Analysis of 1619 Patients Using the Japanese Diagnosis Procedure Combination Database	DPC		Nationwide	2010	2013 Interv	vention effect	Medical treatment status	Diseases of the nervous system		i rigeminai iveuraigia		
7) Diseases of	the eye and adnexa (H00-H59)												
Sakai 2013	DPC Based Situation Analysis of Generic Antibiotics Use among the Japanese Acute Care Hospitals	DPC		Nationwide	2010	2010 Medical treatment stat		Health policy evaluation and utilization	Diseases of the eye and adnexa	Others	surgical cataract cases, antibiotics use		
Kido 2020	Nationwide incidence of central retinal artery occlusion in Japan: an exploratory	NDB	Sampling data	Nationwide	2011	2015 Clinical epidemiology,		utilization	Diseases of the eye and adnexa		central retinal artery occulusion (H34.1)		
Furuta 2016	descriptive study using the National Database of Health Insurance Claims (2011-2015) [Retrospective Analysis of a Health-Insurance Claims Database to Investigate the Prevalence of Dacrycocystitis and Dacrycostenosis Related Cases and its Correlation with	JMDC		Nationwide	2014	diseases 2015 Intervention effect			Diseases of the eye and adnexa		Dacryocystitis and dacryostenosis related cases	1	
	Rebamipide in Ophthalmic Suspensions Administered to Dry-Eye Patients]												
Fukuda 2021	Medical Costs of and Changes in Glaucoma Treatment among Patients Newly Starting Glaucoma Care	JMDC		Nationwide	2005	2016 Health economics		Medical treatment status	Diseases of the eye and adnexa		glaucoma		
Ooba 2020		JMDC		Nationwide	2005	2014 Intervention effect			Diseases of the eye and adnexa		glaucoma (H40 in ICD-10 code)	Others	20- to 74-year age group
Sakamoto 2017		JMDC		Nationwide	2006	2013 Medical treatment stat		Clinical epidemiology, course of diseases	Diseases of the eye and adnexa		Glaucoma		
Kashiwagi		JMDC		Nationwide	2005	Patient health service		uiseases	Diseases of the eye and adnexa		glaucoma		
2014 Hashimoto	Intraocular pressure-lowering medications during pregnancy and risk of neonatal adverse	JMDC		Nationwide	2005	2018 Intervention effect			Diseases of the eye and adnexa	Certain conditions originating in the	e glaucoma, neonatal adverse outcomes		pregnant women
2020	outcomes: a propensity score analysis using a large database									perinatal period	(congenital anomalies, preterm birth, low birth weight)		F - 9
Kashiwagi 2020	Persistence and treatment patterns of fixed combination drugs for glaucoma: a retrospective claims database study in Japan	JMDC		Nationwide	2005	2016 Medical treatment stat	tus	Patient health service utilization	Diseases of the eye and adnexa		glaucoma	Others	aged ≥20 years
Hashimoto	[Clinical Science : Recent Trends in Glaucoma Surgery in Japan : a Descriptive Study	Others	NDB open data, DPC	Nationwide	2010	2016 Medical treatment stat	tus		Diseases of the eye and adnexa		Glaucoma Surgery		
2019 Shirai 2021		Others	MinaCare	Nationwide	2011	2016 Patient health service	utilization	Quality of care	Diseases of the eye and adnexa		topical glaucoma		
Shirai 2021	Guidelines Using Japanese Health Care/Pharmacy Claims Database Comparison of adherence between fixed and unfixed topical combination glaucoma	Others	MinaCare	Nationwide	2011	2016 Patient health service			Diseases of the eye and adnexa		glaucoma		
Shirai 2021	therapies using Japanese healthcare/pharmacy claims database: a retrospective non-	Others	MinaCare	Nationwide	2011	2016 Patient nealth service	utilization		Diseases of the eye and adhexa		giaucoma		
Shirai 2021	interventional cohort study Risk factors leading to trabeculectomy surgery of glaucoma patient using Japanese	DPC		Nationwide	2012	2018 Clinical epidemiology,	course of		Diseases of the eye and adnexa		glaucoma		age groups
	nationwide administrative claims data: a retrospective non-interventional cohort study					diseases	course of				-		age groups
Yamano 2017	[Relationship between Medical History of Patients Administered Mikelan (Carteolol Hydrochloride) Ophthalmic Solution and Occurrence of Asthma-related Adverse Events]	JMDC	Otsuka Pharmaceutical	Nationwide	2014	2015 Intervention effect			Diseases of the eye and adnexa	Diseases of the respiratory system	glaucoma, asthma		
Kawano 2019		MDV	Safety Database	Nationwide	2008	2016 Clinical epidemiology,	course of		Diseases of the eye and adnexa		late intraocular lens (IOL) dislocation		
Kume 2016	data in Japan Treatment Patterns and Health Care Costs for Age-Related Macular Degeneration in	JMDC		Nationwide	2005	diseases 2013 Medical treatment stat	tus	Health economics	Diseases of the eve and adnexa		Age-Related Macular Degeneration	Others	40 years of age or older
	Japan: An Analysis of National Insurance Claims Data												
Tamiya 2021	Validation study of the claims-based definition for age-related macular degeneration at a single university hospital in Japan	Others	claims' data, electronic medical record	Others	Kyoto 2011 Universi ty	2017 Research methodology	/		Diseases of the eye and adnexa		Age-Related Macular Degeneration	Others	
Kawasaki 2021	Treatment patterns for retinal diseases in patients newly-treated with anti-VEGF agents:	IMDC		Nationwide	Hospital 2007	2015 Medical treatment stat	tus		Diseases of the eye and adnexa	Endocrine, nutritional and	retinal disease	Others	21-75 years old
Nawasaki 2021	A retrospective analysis of claims data from the Japan Medical Data Center database	JMDG		Nationwide	2007	2015 Medical rearment star	105		Diseases of the eye and adhexa	metabolic diseases	Teunal disease	Others	21-75 years old
Hashimoto 2020	Recent trends in vitreoretinal surgery: a nationwide database study in Japan, 2010–2017	DPC		Nationwide	2010	2017 Medical treatment stat	tus		Diseases of the eye and adnexa		vitreoretinal surgery		
	the ear and mastoid process (H60-H95)												
Imai 2021		JMDC		Nationwide	2016	2017 Medical treatment stat	tus	Quality of care	Diseases of the ear and mastoid		otitis media (H659, H660, H669)	Children	≤15 years of age
	Amoxicillin or Amoxicillin/Clavulanate from April 2016 to March 2017 Using a Japanese Health Insurance Claims Database								process				
Yamanaka	[Influence of the Protein-conjugated Pneumococcal Vaccine (PCV7) and the Newly	JMDC		Nationwide	2007	2013 Intervention effect		Health policy evaluation and	Diseases of the ear and mastoid		acute otitis media	Children	aged <15 years
2015	Developed Antimicrobials on the Incidence of Acute Otitis Media and the Frequency of Myringotomy]							utilization	process				
Suzuki 2016	Myringetomy) Factors associated with prolonged duration of post-tympanoplasty local treatment in adult chronic otitis media patients: A retrospective observational study using a Japanese	DPC		Nationwide	2010	2013 Clinical epidemiology, o diseases	course of	Intervention effect	Diseases of the ear and mastoid process		chronic otitis media (post-tympanoplasty local treatment)	Others	aged 20 years or older
Sasaki 2018	inpatient database Influence of pneumococcal conjugate vaccines on acute otitis media in Japan	JMDC		Nationwide	2005	2015 Intervention effect		Health policy evaluation and		Diseases of the respiratory system	acute otitis media, pneumococcal conjugate	Children	patients <15 years
9) Diseases of	the circulatory system (100-199)							utilization	process		vaccines		
		DPC		Nationwide	2011	2013 Clinical epidemiology,	course of		Diseases of the circulatory system		type A acute aortic dissection (ICD-10 of I71.0)	Older persons	aged 80 and older
Ohbe 2020	aortic dissection in Japan Extracorporeal cardiopulmonary resuscitation for acute aortic dissection during cardiac	DPC		Nationwide	2010	diseases 2018 Intervention effect		Health economics	Diseases of the circulatory system		acute aortic dissection	Others	aged ≥18 years
Verner	arrest: A nationwide retrospective observational study	DBC	IROAD DOG	Nation 11	001 *	2015 Clinical States		Madinal Incoherent 1999			and and discutor		
Yamaguchi 2020	Current status of the management and outcomes of acute aortic dissection in Japan: Analyses of nationwide Japanese Registry of All Cardiac and Vascular Diseases- Diagnostic Procedure Combination data	DPC	JROAD-DPC	Nationwide	2012	2015 Clinical epidemiology, diseases	course of	Medical treatment status	Diseases of the circulatory system		acute aortic dissection		
Horiguchi 2010	Diagnostic Procedure Combination data Impact of drug-eluting stents on treatment option mix for coronary artery disease in Jaoan	DPC		Nationwide	2004	2007 Medical treatment stat	tus		Diseases of the circulatory system		angina pectoris, acute myocardial infarction		
Izumi 2015	[Surveillance on Concomitant Medications and Adherence to Anticoagulants in patients	Others	JMIRI	Nationwide	2014	2014 Medical trea	atment status	Patient health service utilization	Diseases of the circulatory system		oral anticoagulants		
	Treated with Oral Anticoagulants]												

Yamaguchi 2020	Impact of Endovascular Repair on the Outcomes of Octogenarians with Ruptured Abdominal Aortic Aneurysms: A Nationwide Japanese Study	DPC	JROAD-DPC	Nationwide	2	012	2015 Intervention effect	Socioeconomic comparison	Diseases of the circulatory system	ruptured abdominal aortic aneurysm	Others	aged ≥20 years
Yamaguchi 2019	The impact of institutional case volume on the prognosis of ruptured aortic aneurysms: a Japanese nationwide study	DPC	JROAD-DPC	Nationwide	2	012	2015 Health policy evaluation and utilization		Diseases of the circulatory system	Ruptured aortic aneurysms	Others	aged ≥ 20 years
Yamaguchi 2019	Editor's Choice - Endovascular Repair Versus Surgical Repair for Japanese Patients With Ruptured Thoracic and Abdominal Aortic Aneurysms: A Nationwide Study	DPC	JROAD-DPC	Nationwide	2	012	2015 Intervention effect		Diseases of the circulatory system	Ruptured Thoracic and Abdominal Aortic Aneurysms	Others	aged ≥ 20 years
	Comparing Retreatments and Expenditures in Flow Diversion Versus Coiling for	NDB		Nationwide	2	015	2018 Intervention effe	ct Health econom	ics Diseases of the circulatory system	unruptured intracranial aneurysms		
	Unruptured Intracranial Aneurysm Treatment: A Retrospective Cohort Study Using a Real-World National Database											
Uchida 2014	Effects of remifentanil on in-hospital mortality and length of stay following clipping of intracranial aneurysm: a propensity score-matched analysis	DPC	DPC-Research Group	p Nationwide	2	007	2007 Intervention effe	ct	Diseases of the circulatory system	intracranial aneurysm		
Umegaki 201	Comparison of In-hospital Outcomes Between Transcatheter and Surgical Aortic Valve	DPC	DPC Research Group	o Nationwide	2	012	2015 Intervention effect		Diseases of the circulatory system	aortic valve stenosis	Others	aged ≥20 years
-	Replacement in Patients with Aortic Valve Stenosis: A Retrospective Cohort Study Using Administrative Data											
Matsuda 201	[Forefront of aortic stenosis treatment: Current status of aortic stenosis treatment as	DPC		Nationwide	2	008	2008 Medical treatment status		Diseases of the circulatory system	aortic valve stenosis		
Yamashita	seen from DPC data]* [Comparison of the Length of Stay in Patients Hospitalized and Initiated with Dabigatran	MDV		Nationwide	2	011	2016 Intervention effect	Health economics	Diseases of the circulatory system	non-valvular atrial fibrillation		
2017	or Warfarin for a Concomitant Non-Valvular Atrial Fibrillation in Real-world Japanese Therapeutic Practice (SHORT-J))	NID V		Nationwide	2	011	2010 Intervention enect	Health economics	Diseases of the circulatory system			
Hori 2015	[Disease burden of cardiovascular events in patients with atrial fibrillation: Medical and	MDV	RE-LY study.	Nationwide	2	014	2014 Health economics		Diseases of the circulatory system	atrial fibrillation		
	economic effects of dabigatran and warfarin]*		Japanese prevalence						,			
			studies									
Okumura 201	4 [Estimation of event cost reduction from the administration of apixaban in patients with non-valvular atrial fibrillation]*	MDV	ARISTOTLE study	Nationwide	2	012	2013 Health economics		Diseases of the circulatory system	non-valvular atrial fibrillation		
Ohshima 201	Oral anticoagulants usage in Japanese patients aged 18-74 years with non-valvular atria	I JMDC		Nationwide	2	005	2014 Medical treatment status	Intervention effect	Diseases of the circulatory system	non-valvular atrial fibrillation patients (ICD-	-10; Others	aged 18-74 years
Momo 2020	fibrillation: a retrospective analysis based on insurance claims data Predictive factors associated with bleeding in atrial fibrillation patients treated with anti-	JMDC		Nationwide	2	004	2016 Clinical epidemiology, course of		Diseases of the circulatory system	148-) atrial fibrillation, anti-coagulants		
	coagulant drugs using a large claims database				-		diseases		,			
Momo 2019	Prevalence of drug-drug interaction in atrial fibrillation patients based on a large claims data	JMDC		Nationwide	2	005	2016 Medical treatment status	Intervention effect	Diseases of the circulatory system	drug-drug interaction (DDI) and bleeding ra atrial fibrillation	te in	
Kubota 2018	The use of anticoagulants in patients with non-valvular atrial fibrillation between 2005 and 2014: A drug utilization study using claims data in Japan	JMDC		Nationwide	2	005	2014 Medical treatment status	Quality of care	Diseases of the circulatory system	Atrial fibrillation (148)	Others	aged 20-74 years
Yokoyama	Bleeding Risk of Warfarin and Direct Oral Anticoagulants in Younger Population: A	JMDC		Nationwide	2	012	2015 Intervention effect		Diseases of the circulatory system	Atrial fibrillation (AF)	Others	18 years or older
2018 Kobsaka 201	Historical Cohort Study Using a Japanese Claims Database Bleeding risk of apixaban, dabigatran, and low-dose rivaroxaban compared with warfarin	MDV		Nationwide	2	011	2016 Intervention effect		Diseases of the circulatory system	non-valvular atrial fibrillation (148)	Others	aged ≥18 years
KUIISAKA 201	in Japanese patients with non-valvular atrial fibrillation: a propensity matched analysis o			Nationwide	2	011	2010 Intervention enect		Diseases of the circulatory system	non-valvular atrial hormation (146)	Others	ageu 210 years
K-112010	administrative claims data	MDV		No. 2010		011	0017		Provide the second seco		01	
Konsaka 2010	Safety and effectiveness of apixaban in comparison to warfarin in patients with nonvalvular atrial fibrillation: a propensity-matched analysis from Japanese	NDV		Nationwide	2	011	2017 Intervention effect		Diseases of the circulatory system	atrial fibrillation (148)	Others	aged ≥18 years
	administrative claims data											
Maeda 2021	administrative claims data Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project)	JMDC		Others		005	2017 Clinical epidemiology, course of diseases		Diseases of the circulatory system	atrial fibrillation (ICD-10: I48)	Others	20-74 years of age
Maeda 2021	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation	JMDC		Others	Fukuoka 2 Compre hensive	005			Diseases of the circulatory system	atrial fibrillation (ICD-10: I48)	Others	20-74 years of age
Maeda 2021	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation	JMDC		Others	Compre hensive Risk	005			Diseases of the circulatory system	atrial fibrillation (ICD-10: I48)	Others	20-74 years of age
Maeda 2021	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation	JMDC		Others	Compre hensive Risk Evaluati	005			Diseases of the circulatory system	atrial fibrillation (ICD-10: I48)	Others	20-74 years of age
Maeda 2021	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation	JMDC		Others	Compre hensive Risk Evaluati on of	005			Diseases of the circulatory system	atrial fibrillation (ICD-10: I48)	Others	20-74 years of age
Maeda 2021	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation	JMDC		Others	Compre hensive Risk Evaluati on of Atrial	005			Diseases of the circulatory system	atrial fibrillation (ICD-10: I48)	Others	20-74 years of age
Maeda 2021	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation	JMDC		Others	Compre hensive Risk Evaluati on of Atrial Fibrillati	005			Diseases of the circulatory system	atrial fibrillation (ICD-10: I48)	Others	20-74 years of age
Maeda 2021	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation	JMDC		Others	Compre hensive Risk Evaluati on of Atrial	005			Diseases of the circulatory system	atrial fibrillation (ICD-10: I48)	Others	20-74 years of age
Maeda 2021	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation	JMDC		Others	Compre hensive Risk Evaluati on of Atrial Fibrillati on with	005			Diseases of the circulatory system	atrial fibrillation (ICD-10: I48)	Others	20-74 years of age
Maeda 2021	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation	JMDC		Others	Compre hensive Risk Evaluati on of Atrial Fibrillati on with Claim Databas e project	005			Diseases of the circulatory system	atrial fibrillation (ICD-10: I48)	Others	20-74 years of age
Maeda 2021	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation	JMDC		Others	Compre hensive Risk Evaluati on of Atrial Fibrillati on with Claim Databas e project (F-	005			Diseases of the circulatory system	atrial fibrillation (ICD-10: I48)	Others	20-74 years of age
Maeda 2021	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation	JMDC		Others	Compre hensive Risk Evaluati on of Atrial Fibrillati on with Claim Databas e project (F- CREATE	005			Diseases of the circulatory system	atrial fibrillation (ICD-10: I48)	Others	20-74 years of age
	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project)		Iananese National		Compre hensive Risk Evaluati on of Atrial Fibrillati on with Claim Databas e project (F- CREATE project)		diseases	Medical treatment status				
Maeda 2021 Narita 2020	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project) Trends in Prevalence of Non-Valvular Atrial Fibrillation and Anticoagulation Therapy in a		Japanese National Health Insurance	Others	Compre hensive Risk Evaluati on of Atrial Fibrillati on with Claim Databas e project (F- CREATE project) Tsugaru 2	005		Medical treatment status	Diseases of the circulatory system	atrial fibrillation (ICD-10: I48) non-valvular atrial fibrillation	Others	20-74 years of age aged 40-74 years
	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project)		Health Insurance database ("Kokuho"	Municipality	Compre hensive Risk Evaluati on of Atrial Fibrillati on with Claim Databas e project (F- CREATE project)		diseases 2017 Clinical epidemiology, course of	Medical treatment status				
Narita 2020	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project) Trends in Prevalence of Non-Valvular Atrial Fibrillation and Anticoagulation Therapy in a Japanese Region: Analysis Using the National Health Insurance Database	NHI/LSEHS	Health Insurance	Municipality	Compre hensive Risk Evaluati on of Atrial Fibrillati on with Claim Databas e project (F- CREATE project) Tsugaru 2 region		diseases 2017 Clinical epidemiology, course of diseases	Medical treatment status	Diseases of the circulatory system	non-valvular atrial fibrillation		
Narita 2020	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project) Trends in Prevalence of Non-Valvular Atrial Fibrillation and Anticoagulation Therapy in a Japanese Region: Analysis Using the National Health Insurance Database Incidence Rates of Bleeding and Emergency Surgery Due to Trauma or Fracture Among	NHI/LSEHS	Health Insurance database ("Kokuho"	Municipality	Compre hensive Risk Evaluati on of Atrial Fibrillati on with Claim Databas e project (F- CREATE project) Tsugaru 2 region (5 municip		diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of	Medical treatment status				
Narita 2020	Residual risks of lischemic stroke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project) Trends in Prevalence of Non-Valvular Atrial Fibrillation and Anticoagulation Therapy in a Japanese Region: Analysis Using the National Health Insurance Database Incidence Rates of Bleeding and Emergency Surgery Due to Trauma or Fracture Among Japanese Patients with Non-valvular Atrial Fibrillation Reeiving Oral Anticoagulation	NHI/LSEHS	Health Insurance database ("Kokuho"	Municipality	Compre hensive Risk Evaluati on of Atrial Fibrillati on with Claim Databas e project (F- CREATE project) Tsugaru 2 region (5 municip	014	diseases 2017 Clinical epidemiology, course of diseases	Medical treatment status	Diseases of the circulatory system	non-valvular atrial fibrillation	Others	aged 40-74 years
Narita 2020	Residual risks of ischaemic struke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project) Trends in Prevalence of Non-Valvular Atrial Fibrillation and Anticoagulation Therapy in a Japanese Region: Analysis Using the National Health Insurance Database Incidence Rates of Bleeding and Emergency Surgery Due to Trauma or Fracture Among Japanese Patients with Non-valvular Atrial Fibrillation Receiving Oral Anticoagulation	NHI/LSEHS	Health Insurance database ("Kokuho"	Municipality	Compre hensive Risk Evaluati on with Claim Databas e project (F- CREATE project) CREATE project) CREATE region (5 municip	014	diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of		Diseases of the circulatory system Diseases of the circulatory system	non-valvular atrial fibrillation	Others	aged 40-74 years
Narita 2020 Yasaka 2020 Suzuki 2019	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project) Trends in Prevalence of Non-Valvular Atrial Fibrillation and Anticoagulation Therapy in a Japanese Region: Analysis Using the National Health Insurance Database Incidence Rates of Bleeding and Emergency Surgery Due to Trauma or Fracture Among Japanese Patients with Non-valvular Atrial Fibrillation Receiving Oral Anticoagulation Therapy Potential of machine learning methods to identify patients with nonvalvular atrial fibrillation	NHI/LSEHS MDV MDV	Health Insurance database ("Kokuho" database [KDB])	Municipality Nationwide Nationwide	Compre hensive Risk Evaluati on with Claim Databas e project (F- CREATE project) CREATE project) CREATE region (5 municip	014	diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2017 Prediction model	Medical treatment status	Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system	non-valvular atrial fibrillation nonvalvular atrial fibrillation (148) nonvalvular atrial fibrillation	Others	aged 40-74 years
Narita 2020 Yasaka 2020 Suzuki 2019 Koretsune	Residual risks of lachaemic stroke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project) Trends in Prevalence of Non-Valvular Atrial Fibrillation and Anticoagulation Therapy in a Japanese Region: Analysis Using the National Health Insurance Database Incidence Rates of Bleeding and Emergency Surgery Due to Trauma or Fracture Among Japanese Patients with Non-valvular Atrial Fibrillation Receiving Oral Anticoagulation Therapy Potential of machine learning methods to identify patients with nonvalvular atrial	NHI/LSEHS MDV	Health Insurance database ("Kokuho" database [KDB]) comparable with J-	Municipality Nationwide Nationwide	Compre hensive Risk Evaluati on with Claim Databas e project (F- CREATE region (5 municip 2 2	014	diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases		Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system	non-valvular atrial fibrillation nonvalvular atrial fibrillation (148)	Others	aged 40-74 years
Narita 2020 Yasaka 2020 Suzuki 2019	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project) Trends in Prevalence of Non-Valvular Atrial Fibrillation and Anticoagulation Therapy in a Japanese Region: Analysis Using the National Health Insurance Database Incidence Rates of Bleeding and Emergency Surgery Due to Trauma or Fracture Among Japanese Patients with Non-valvular Atrial Fibrillation Receiving Oral Anticoagulation Therapy Potential of machine learning methods to identify patients with nonvalvular atrial fibrillation	NHI/LSEHS MDV MDV	Health Insurance database ("Kokuho" database [KDB]) comparable with J- RHYTHM Registry	Municipality Nationwide Nationwide	Compre hensive Risk Evaluati on with Claim Databas e project (F- CREATE region (5 municip 2 2	014 011 008	diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2017 Prediction model	Medical treatment status	Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system	non-valvular atrial fibrillation nonvalvular atrial fibrillation (148) nonvalvular atrial fibrillation	Others	aged 40-74 years
Narita 2020 Yasaka 2020 Suzuki 2019 Koretsune	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project) Trends in Prevalence of Non-Valvular Atrial Fibrillation and Anticoagulation Therapy in a Japanese Region: Analysis Using the National Health Insurance Database Incidence Rates of Bleeding and Emergency Surgery Due to Trauma or Fracture Among Japanese Patients with Non-valvular Atrial Fibrillation Receiving Oral Anticoagulation Therapy Potential of machine learning methods to identify patients with nonvalvular atrial fibrillation	NHI/LSEHS MDV MDV	Health Insurance database ('Kokuho" database [KDB]) comparable with J- RHYTHM Registry and Fushimi AF	Municipality Nationwide Nationwide	Compre hensive Risk Evaluati on with Claim Databas e project (F- CREATE region (5 municip 2 2	014 011 008	diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2017 Prediction model	Medical treatment status Clinical epidemiology, course of	Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system	non-valvular atrial fibrillation nonvalvular atrial fibrillation (148) nonvalvular atrial fibrillation	Others	aged 40-74 years
Narita 2020 Yasaka 2020 Suzuki 2019 Koretsune	Residual risks of lschaemic stroke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project) Trends in Prevalence of Non-Valvular Atrial Fibrillation and Anticoagulation Therapy in a Japanese Region: Analysis Using the National Health Insurance Database Incidence Rates of Bleeding and Emergency Surgery Due to Trauma or Fracture Among Japanese Patients with Non-valvular Atrial Fibrillation Receiving Oral Anticoagulation Therapy Potential of machine learning methods to identify patients with nonvalvular atrial fibrillation Usefulness of a healthcare database for epidemiological research in atrial fibrillation	NHI/LSEHS MDV MDV	Health Insurance database ("Kokuho" database [KDB]) comparable with J- RHYTHM Registry	Municipality Nationwide Nationwide	Compre hensive Risk Evaluati on of Atrial Fibrillati O anwith Databas e project (F- CREATE project (F- Tsugaru 2 2 2 2 2	014 011 008	diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2017 Prediction model	Medical treatment status Clinical epidemiology, course of	Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system	non-valvular atrial fibrillation nonvalvular atrial fibrillation (148) nonvalvular atrial fibrillation	Others	aged 40-74 years
Nanta 2020 Yasaka 2020 Suzuki 2019 Koretsune 2017 Yagi 2021	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project) Trends in Prevalence of Non-Valvular Atrial Fibrillation and Anticoagulation Therapy in a Japanese Region: Analysis Using the National Health Insurance Database Incidence Rates of Bleeding and Emergency Surgary Due to Trauma or Fracture Among Japanese Patients with Non-valvular Atrial Fibrillation Receiving Oral Anticoagulation Therapy Potential of machine learning methods to identify patients with nonvalvular atrial fibrillation Usefuness of a healthcare database for epidemiological research in atrial fibrillation Current status of oral anticoagulant adherence in Japanese patients with atrial fibrillation: A claims database analysis	NHI/LSEHS MDV MDV MDV JMDC	Health Insurance database ('Kokuho" database [KDB]) comparable with J- RHYTHM Registry and Fushimi AF	Municipality Nationwide Nationwide Nationwide	Compre hensive Risk Evaluati on of Atrial Fibrillati on with Claim on with Claim on with Claim on with Claim (F- CREATE project) (F- CREATE region 2 2 2 2	014 011 0008 0008	diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2017 Prediction model 2013 Research methodology 2019 Patient health service utilization	Medical treatment status Clinical epidemiology, course of	Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system	non-valvular atrial fibrillation nonvalvular atrial fibrillation (148) nonvalvular atrial fibrillation non-valvular atrial fibrillation	Others Others	aged 40-74 years age >18 years
Narita 2020 Yasaka 2020 Suzuki 2019 Koretsune 2017	Residual risks of licchaemic stroke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project) Trends in Prevalence of Non-Valvular Atrial Fibrillation and Anticoagulation Therapy in a Japanese Region: Analysis Using the National Health Insurance Database Incidence Rates of Bleeding and Emergency Surgery Due to Trauma or Fracture Among Japanese Patients with Non-valvular Atrial Fibrillation Receiving Oral Anticoagulation Therapy Potential of machine learning methods to identify patients with nonvalvular atrial fibrillation Usefulness of a healthcare database for epidemiological research in atrial fibrillation Current status of oral anticoagulant adherence in Japanese patients with atrial fibrillation: A claims database analysis	NHI/LSEHS MDV MDV MDV JMDC	Health Insurance database ('Kokuho" database [KDB]) comparable with J- RHYTHM Registry and Fushimi AF	Municipality Nationwide Nationwide	Compre hensive Risk Evaluati on of Atrial Fibrillati on with Claim on with Claim on with Claim on with Claim (F- CREATE project) (F- CREATE region 2 2 2 2	014 011 008	diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2017 Prediction model 2013 Research methodology 2019 Patient health service utilization 2016 Clinical epidemiology, course of	Medical treatment status Clinical epidemiology, course of	Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system	non-valvular atrial fibrillation nonvalvular atrial fibrillation (148) nonvalvular atrial fibrillation non-valvular atrial fibrillation	Others	aged 40-74 years
Nanta 2020 Yasaka 2020 Suzuki 2019 Koretsune 2017 Yagi 2021	Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project) Trends in Prevalence of Non-Valvular Atrial Fibrillation and Anticoagulation Therapy in a Japanese Region: Analysis Using the National Health Insurance Database Incidence Rates of Bleeding and Emergency Surgary Due to Trauma or Fracture Among Japanese Patients with Non-valvular Atrial Fibrillation Receiving Oral Anticoagulation Therapy Potential of machine learning methods to identify patients with nonvalvular atrial fibrillation Usefuness of a healthcare database for epidemiological research in atrial fibrillation Current status of oral anticoagulant adherence in Japanese patients with atrial fibrillation: A claims database analysis	NHI/LSEHS MDV MDV MDV JMDC	Health Insurance database ('Kokuho" database [KDB]) comparable with J- RHYTHM Registry and Fushimi AF	Municipality Nationwide Nationwide Nationwide	Compre hensive Risk Evaluati on of Atrial Fibrillati on with Claim on with Claim on with Claim on with Claim (F- CREATE project) (F- CREATE region 2 2 2 2	014 011 0008 0008	diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2017 Prediction model 2013 Research methodology 2019 Patient health service utilization	Medical treatment status Clinical epidemiology, course of	Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system	non-valvular atrial fibrillation nonvalvular atrial fibrillation (148) nonvalvular atrial fibrillation non-valvular atrial fibrillation	Others Others	aged 40-74 years age >18 years
Narita 2020 Yasaka 2020 Suzuki 2019 Koretsune 2017 Yagi 2021 Kario 2020	Residual risks of ischaemic struke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project) Trends in Prevalence of Non-Valvular Atrial Fibrillation and Anticoagulation Therapy in a Japanese Region: Analysis Using the National Health Insurance Database Incidence Rates of Bleeding and Emergency Surgery Due to Trauma or Fracture Among Japanese Patients with Non-valvular Atrial Fibrillation Receiving Cral Anticoagulation Therapy Potential of machine learning methods to identify patients with nonvalvular atrial fibrillation Usefulness of a healthcare database for epidemiological research in atrial fibrillation Current status of oral anticoagulant adherence in Japanese patients with tharial fibrillation: A claims database analysis Impact of pre-existing hypertension and control status before atrial fibrillation cardiovasoular prognosis in patients with non-valvular atrial fibrillation areal-world database analysis in Japan	NHI/LSEHS MDV MDV MDV JMDC	Health Insurance database ('Kokuho" database [KDB]) comparable with J- RHYTHM Registry and Fushimi AF	Municipality Nationwide Nationwide Nationwide	Compre hensive Risk Evaluati on of Atrial Fibrillati O an with O latabas e project (F- CREATE project (F- CREATE Taugaru 2 2 2 2 2 2 2 2	014 011 0008 0008	diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2017 Prediction model 2013 Research methodology 2019 Patient health service utilization 2016 Clinical epidemiology, course of	Medical treatment status Clinical epidemiology, course of	Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system	non-valvular atrial fibrillation nonvalvular atrial fibrillation (148) nonvalvular atrial fibrillation non-valvular atrial fibrillation	Others Others	aged 40-74 years age >18 years
Narita 2020 Yasaka 2020 Suruki 2019 Koretsune 2017 Yagi 2021 Kario 2020	Residual risks of ischaemic struke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project) Trends in Prevalence of Non-Valvular Atrial Fibrillation and Anticoagulation Therapy in a Japanese Region: Analysis Using the National Health Insurance Database Incidence Rates of Bleeding and Emergency Surgery Due to Trauma or Fracture Among Japanese Patients with Non-valvular Atrial Fibrillation Receiving Oral Anticoagulation Therapy Potential of machine learning methods to identify patients with nonvalvular atrial fibrillation Usefulness of a healthcare database for epidemiological research in atrial fibrillation Current status of oral anticoagulant adherence in Japanese patients with atrial fibrillation: A claims database analysis Impact of pre-existing hypertension and control status before atrial fibrillation database analysis in Japan Satety and effectiveness of non-vitamin K oral anticoagulator a real-world database analysis of Japanese Sate Sate Sate Sate Sate Sate Sate Sat	NHI/LSEHS MDV MDV JMDC JMDC	Health Insurance database ('Kokuho" database [KDB]) comparable with J- RHYTHM Registry and Fushimi AF	Municipality Nationwide Nationwide Nationwide Nationwide	Compre hensive Risk Evaluati on of Atrial Fibrillati O an with O latabas e project (F- CREATE project (F- CREATE Taugaru 2 2 2 2 2 2 2 2	011 008 0008 010 005	diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2017 Prediction model 2013 Research methodology 2019 Patient health service utilization 2016 Clinical epidemiology, course of diseases	Medical treatment status Clinical epidemiology, course of	Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system	non-valvular atrial fibrillation nonvalvular atrial fibrillation (148) nonvalvular atrial fibrillation non-valvular atrial fibrillation atrial fibrillation atrial fibrillation	Others Others Others	aged 40-74 years age >18 years aged 0-75 years
Narita 2020 Yasaka 2020 Suzuki 2019 Koretsune 2017 Yagi 2021 Kario 2020 Kohsaka 2021	Residual risks of lichaemic strake and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project) Trends in Prevalence of Non-Valvular Atrial Fibrillation and Anticoagulation Therapy in a Japanese Region: Analysis Using the National Health Insurance Database Incidence Rates of Bleeding and Emergency Surgery Due to Trauma or Fracture Among Japanese Patients with Non-valvular Atrial Fibrillation Reeiving Oral Anticoagulation Therapy Potential of machine learning methods to identify patients with nonvalvular atrial fibrillation: Usefulness of a healthcare database for epidemiological research in atrial fibrillation Current status of oral anticoagulant adherence in Japanese patients with atrial fibrillation: A claims database analysis Impact of pre-existing hypertension and control status before atrial fibrillation A real-world database analysis in patients with non-valvular atrial fibrillation areal-world atabases analysis in patients with non-valvular atrial fibrillation areal-world patients with non-valvular atrial fibrillations areal-world patients with non-valvular	NHI/LSEHS MDV MDV MDV JMDC JMDC MDV	Health Insurance database ('Kokuho" database [KDB]) comparable with J- RHYTHM Registry and Fushimi AF	Municipality Nationwide Nationwide Nationwide Nationwide	Compre hensive Risk Evaluati on with Fibrillati on with Databas e project (F- CREATE project) CREATE region 2 CREATE region 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	014 011 0008 0008 0005 0011	diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2017 Prediction model 2013 Research methodology 2019 Patient health service utilization 2016 Clinical epidemiology, course of diseases 2018 Intervention effect	Medical treatment status Clinical epidemiology, course of	Diseases of the circulatory system Diseases of the circulatory system	non-valvular atrial fibrillation nonvalvular atrial fibrillation (148) nonvalvular atrial fibrillation non-valvular atrial fibrillation atrial fibrillation atrial fibrillation non-valvular atrial fibrillation	Others Others Others Others	aged 40-74 years age >18 years aged 0-75 years aged 218 years
Narita 2020 Yasaka 2020 Suzuki 2019 Koretsune 2017 Yagi 2021 Kario 2020 Kohsaka 2021	Residual risks of ischaemic struke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project) Trends in Prevalence of Non-Valvular Atrial Fibrillation and Anticoagulation Therapy in a Japanese Region: Analysis Using the National Health Insurance Database Incidence Rates of Bleeding and Emergency Surgery Due to Trauma or Fracture Among Japanese Patients with Non-valvular Atrial Fibrillation Receiving Oral Anticoagulation Therapy Potential of machine learning methods to identify patients with nonvalvular atrial fibrillation Usefulness of a healthcare database for epidemiological research in atrial fibrillation Current status of oral anticoagulant adherence in Japanese patients with atrial fibrillation: A claims database analysis Impact of pre-existing hypertension and control status before atrial fibrillation database analysis in Japan Satety and effectiveness of non-vitamin K oral anticoagulator a real-world database analysis of Japanese Sate Sate Sate Sate Sate Sate Sate Sat	NHI/LSEHS MDV MDV MDV JMDC JMDC MDV	Health Insurance database ('Kokuho" database [KDB]) comparable with J- RHYTHM Registry and Fushimi AF	Municipality Nationwide Nationwide Nationwide Nationwide	Compre hensive Risk Evaluati on with Fibrillati on with Databas e project (F- CREATE project) CREATE region 2 CREATE region 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	011 008 0008 010 005	diseases 2017 Clinical epidemiology, course of diseases 2016 Clinical epidemiology, course of diseases 2017 Prediction model 2013 Research methodology 2019 Patient health service utilization 2016 Clinical epidemiology, course of diseases	Medical treatment status Clinical epidemiology, course of	Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system	non-valvular atrial fibrillation nonvalvular atrial fibrillation (148) nonvalvular atrial fibrillation non-valvular atrial fibrillation atrial fibrillation atrial fibrillation	Others Others Others	aged 40-74 years age >18 years aged 0-75 years

Koretsune 2019	Comparative effectiveness and safety of warfarin and dabigatran in patients with non- valvular atrial fibrillation in Japan: A claims database analysis	MDV		Nationwide		2011	2016 Intervention effect	Medical treatment status	Diseases of the circulatory system	non-valvular atrial fibrillation	Others	aged ≥18 years
Satoh 2020	Blood Pressure and Chronic Kidney Disease Stratified by Gender and the Use of Antihypertensive Drugs	JMDC		Nationwide		2008	2017 Clinical epidemiology, course of diseases		Diseases of the circulatory system Diseases of the genitourinary system	blood pressure and the risk of chronic kidney disease	Others	30-74 years of age
Kawamura	Patient characteristics and in-hospital complications of subcutaneous implantable	DPC		Nationwide		2016	2017 Intervention effect		Diseases of the circulatory system	Brugada syndrome (1490)		
2019 Kido 2020	cardioverter-defibrillator for Brugada syndrome in Japan Outcomes of paediatric out-of-hospital cardiac arrest according to hospital characteristic	DPC		Nationwide		2010	2017 Quality of care	Health policy evaluation and	Diseases of the circulatory system	paediatric out-of-hospital cardiac arrest	Children	children (<18 years)
1100 2020	defined by the annual number of paediatric patients with invasive mechanical ventilation			Hationinae		2010	2011 Quality of care	utilization	biscuss of the anculatory system	padalatile out of hospital cardide arrest	Gillaren	children (410 years)
Zamami 2017	A nationwide study in Japan [Drug Repositioning Research Utilizing a Large-scale Medical Claims Database to	JMDC		Nationwide		2005	2014 Medical treatment status	Intervention effect	Diseases of the circulatory system	Cardiopulmonary Arrest	Others	aged 18 years or older
Eukuda 2012	Improve Survival Rates after Cardiopulmonary Arrest] Health care costs related to out-of-hospital cardiopulmonary arrest in Japan	DPC		Nationwide		2008	2009 Health economics		Diseases of the circulatory system	cardiopulmonary arrest (OHCA)	Others	age ≥18 vears
	1 Intermittent versus continuous neuromuscular blockade during target temperature	DPC		Nationwide		2008	2009 Health economics 2018 Intervention effect		Diseases of the circulatory system Diseases of the circulatory system	postcardiac arrest patients	Others	aged ≥18 years
Zamami 2019	management after cardiac arrest: A nationwide observational study Search for Therapeutic Agents for Cardiac Arrest Using a Drug Discovery Tool and Large	- IMDC		Nationwide		2005	2014 Intervention effect		Diseases of the circulatory system	cardiac arrest patients	Others	excluded <18 years old
	Scale Medical Information Database									,		
Joo 2019	Effectiveness and safety of early enteral nutrition for patients who received targeted temperature management after out-of-hospital cardiac arrest	MDV		Nationwide		2008	2017 Intervention effect		Diseases of the circulatory system	out-of-hospital cardiac arrest	Others	≥20 years of age
Niimura 2017	Hydrocortisone administration was associated with improved survival in Japanese patients with cardiac arrest	JMDC		Nationwide		2005	2014 Intervention effect		Diseases of the circulatory system	Cardiac arrest		
Tagami 2016	Early antibiotics administration during targeted temperature management after out-of-	DPC		Nationwide		2007	2013 Intervention effect		Diseases of the circulatory system	cardiac arrest	Others	age ≥18 years
Tadami 2016	hospital cardiac arrest: a nationwide database study Changes in Therapeutic Hypothermia and Coronary Intervention Provision and In-	DPC		Nationwide		2008	2012 Medical treatment status	Intervention effect	Diseases of the circulatory system	Out-of-Hospital Cardiac Arrest	Others	aged ≥18 years
1454111 2010	Hospital Mortality of Patients With Out-of-Hospital Cardiac Arrest: A Nationwide	DIG		Nationwide		2000	2012 Wedical freatment status	Intervention enect	Diseases of the circulatory system	out-or-nospital cardiac Arrest	otilets	aged 210 years
Tagami 2016	Database Study Amiodarone or nifekalant upon hospital arrival for refractory ventricular fibrillation after	DPC		Nationwide		2007	2013 Intervention effect		Diseases of the circulatory system	Out-of-Hospital Cardiac Arrest	Others	aged ≥18 years
	out-of-hospital cardiac arrest									•		
Tagami 2016	Amiodarone Compared with Lidocaine for Out-Of-Hospital Cardiac Arrest with Refractory Ventricular Fibrillation on Hospital Arrival: a Nationwide Database Study	DPC		Nationwide		2007	2013 Intervention effect		Diseases of the circulatory system	out-of-hospital cardiac arrest and refractory ventricular fibrillation	Others	aged ≥18 years
Shakya 2017	In-hospital complications after implantation of cardiac implantable electronic devices:	DPC		Nationwide		2010	2014 Intervention effect		Diseases of the circulatory system	complications after implantation of cardiac		age categories
Aso 2016	Analysis of a national inpatient database in Japan The Effect of Intraaortic Balloon Pumping Under Venoarterial Extracorporeal Membrane	DPC		Nationwide		2010	2013 Intervention effect		Diseases of the circulatory system	implantable electronic devices cardiogenic shock (ICD-10 codes: 105, 107, 108,		
	Oxygenation on Mortality of Cardiogenic Patients: An Analysis Using a Nationwide Inpatient Database									120-122, 133-135, 140-142, 146, and 149-151)		
Ohbe 2018	Early enteral nutrition for cardiogenic or obstructive shock requiring venoarterial	DPC		Nationwide		2010	2016 Intervention effect		Diseases of the circulatory system	cardiogenic or obstructive shock	Others	aged ≥18 years
Higa 2021	extracorporeal membrane oxygenation: a nationwide inpatient database study Relationship of Annual Health Checkups with the Subject's Subsequent Behavior of	Others	MinaCare database	Nationwide		2014	2017 Patient health service utilization		Diseases of the circulatory system	Cardiovascular Risk	Others	20 and 74 years
	Cardiovascular Risk Management in a Real-World Setting in Japan: A Retrospective											
	Cohort Study on Changes in Antihypertensive Drug Prescription and Blood Pressure from 2015 to 2017											
Okuno 2021	Intra-operative autologous blood donation for cardiovascular surgeries in Japan: A	DPC		Nationwide		2016	2019 Intervention effect		Diseases of the circulatory system	cardiovascular surgeries	Others	aged 18-84 years
Kanaoka 2021	retrospective cohort study Current Status and Effect of Outpatient Cardiac Rehabilitation After Percutaneous	NDB		Nationwide		2014	2018 Intervention effect		Diseases of the circulatory system	cardiovascular diseases	Others	aged ≥20 years
Kaneko 2021	Coronary Intervention in Japan Possible association between eating behaviors and cardiovascular disease in the general	IMDC		Nationwide		2005	2018 Clinical epidemiology, course of		Diseases of the circulatory system	cardiovascular disease	Others	aged ≥20 years
Nalleko 2021	population: Analysis of a nationwide epidemiological database	1 30000		Nationwide		2005	diseases		Diseases of the circulatory system	cardiovascular disease	Others	aged 220 years
Kaneko 2021	Association of Blood Pressure Classification Using the 2017 American College of Cardiology/American Heart Association Blood Pressure Guideline with Risk of Heart	JMDC		Nationwide		2005	2018 Clinical epidemiology, course of diseases		Diseases of the circulatory system	Heart failure, atrial fibrillation, hypertension	Others	aged ≥20 years
	Failure and Atrial Fibrillation											
Shima 2021	Validation of novel identification algorithms for major adverse cardiovascular events in a Japanese claims database	Others	claims database of Jichi Medical	Others	Jichi Medical	2012	2014 Research methodology		Diseases of the circulatory system	adverse cardiovascular events	Others	aged at least 20 years
			University Hospital,		Universi							
			electrical medical records		ty Hospital							
Takura 2021	Development of a predictive model for integrated medical and long-term care resource	NHI/LSEHS	national healthcare	Others	(The	2014	2018 Prediction model	Health economics	Diseases of the circulatory system	circulatory disease (ICD-10 00-99)		all ages
	consumption based on health behaviour: application of healthcare big data of patients with circulatory diseases		database (Kokuho Database, KDB)		regions included							
	,				in the							
					databas							
					account							
					for 6.1%							
					of the							
					total populati							
					on of							
					Japan)							
Kaneko 2020	Restfulness from sleep and subsequent cardiovascular disease in the general population	JMDC		Nationwide		2005	2018 Clinical epidemiology, course of diseases		Diseases of the circulatory system	cardiovascular disease	Others	aged ≥20 years
	Safety of Tranexamic Acid in Pediatric Cardiac Surgery: A Nationwide Database Study			Nationwide		2010	2014 Intervention effect		Diseases of the circulatory system	pediatric cardiac surgery population	Children	aged ≤12 years
Davis 2015	High-Risk Atherosclerotic Cardiovascular Disease in a Real-World Employed Japanese	JMDC		Nationwide		2008	2009 Clinical epidemiology, course of	Health economics	Diseases of the circulatory system	atherosclerotic cardiovascular disease	Others	aged ≥18 years
Kaneko 2021	Population: Prevalence, Cardiovascular Event Rates, and Costs Fasting plasma glucose and subsequent cardiovascular disease among young adults:	JMDC		Nationwide		2005	diseases 2018 Clinical epidemiology, course of		Diseases of the circulatory system	cardiovascular disease	Others	aged 20-49 years
Kitamura 202	Analysis of a nationwide epidemiological database	DPC		Nationwide		2011	diseases 2017 Intervention effect		Diseases of the circulatory system	ventricular tachycardia ablation	Others	aged ≥18 years
	 Safety and effectiveness of intracardiac echocardiography in ventricular tachycardia ablation: a nationwide observational study 									-		
Kaneko 2020	Cardiovascular Health Metrics of 87,160 Couples: Analysis of a Nationwide Epidemiological Database	JMDC		Nationwide		2005	2016 Clinical epidemiology, course of diseases		Diseases of the circulatory system	cardiovascular health metrics	Others	aged ≥ 20 years
	Epidemological Database						uiseases					

Ugata 2020	Periprocedural hypotension after conscious sedation versus local anesthesia during defibrillator implantation for left ventricular dysfunction: analysis of a national inpatient database in Japan	DPC		Nationwide		2010	2016 Intervention effect		Diseases of the circulatory system		Implantable cardioverter defibrillators and cardiac resynchronization therapy devices	Others	aged ≥18 years
Watanabe 2020		DPC	JROAD-DPC	Nationwide		2012	2014 Health policy evaluation and utilization		Diseases of the circulatory system		cardiovascular disease	Others	aged ≥18 years
	Low Activities of Daily Living Associated With Increased Cardiovascular Disease Mortality in Japan - Analysis of Health Records From a Nationwide Claim-Based Database, JROAD-DPC	DPC	JROAD-DPC	Nationwide		2012	2014 Clinical epidemiology, course of diseases		Diseases of the circulatory system		acute coronary syndrome, heart failure, or aortic aneurysm/dissection	Others	aged ≥20 years
Isogai 2016	Relationship between hospital volume and major cardiac complications of rotational atherectomy: A nationwide retrospective cohort study in Japan	DPC		Nationwide		2010	2013 Health policy evaluation and utilization		Diseases of the circulatory system		cardiac complications of rotational atherectom	y Others	aged ≥20 years
Isogai 2015	amerectomy. A nature more recognitive control study in Japan Serious cardiac complications in coronary spasm provocation tests using acetylcholine or ergonovine: analysis of 21 512 patients from the diagnosis procedure combination database in Japan	DPC		Nationwide		2010	2013 Intervention effect		Diseases of the circulatory system		Cardiac complications in coronary spasm provocation tests using acetylcholine or ergonovine	Others	aged ≥20 years
Kitazawa 2019	Database in Japan Risk of coronary artery disease according to glucose abnormality status and prior coronary artery disease in Japanese men	JMDC		Nationwide		2008	2016 Clinical epidemiology, course of diseases		Diseases of the circulatory system	Endocrine, nutritional and metabolic diseases	glycemic level, cardiovascular disease	Others	18-72 years old
Fujihara 2017	Impact of body mass index and metabolic phenotypes on coronary artery disease	JMDC		Nationwide		2008	2015 Clinical epidemiology, course of		Diseases of the circulatory system		coronary artery disease, glucose tolerance	Others	18-72 years old
Hashikata	according to glucose tolerance status Usefulness of a large automated health records database in oharmacoepidemiology	MDV	previous	Nationwide	15	2006	diseases 2009 Research methodology		Diseases of the circulatory system		status cardio-cerebrovascular events, diabetes,		
2011			epidemiological survey (Hisayama survey, JIKEI-Heart study, KYOTO-Heart		medical facilities	2000	2005 Research includency		Discuss of the encounter, system	metabolic diseases	dialysis initiation		
			study)										
	i Low-density lipoprotein cholesterol levels and lipid-modifying therapy prescription patterns in the real world: An analysis of more than 33,000 high cardiovascular risk patients in Japan	MDV		Nationwide		2013	2013 Medical treatment status	Quality of care	Diseases of the circulatory system	metabolic diseases	acute coronary syndrome , other coronary hear disease, ischemic stroke, peripheral arterial disease or diabetes mellitus		aged ≥20 years
Sakamoto 2020	Clinical features and outcomes of nonocclusive mesenteric ischemia after cardiac surgery: a retrospective cohort study	DPC		Nationwide		2010	2017 Clinical epidemiology, course of diseases		Diseases of the circulatory system	Diseases of the digestive system	Nonocclusive mesenteric ischemia after cardia surgery	c	
Kaneko 2020	Lipid Profile and Subsequent Cardiovascular Disease among Young Adults Aged < 50 Years	JMDC		Nationwide		2005	2018 Clinical epidemiology, course of diseases		Diseases of the circulatory system	Endocrine, nutritional and metabolic diseases	lipid profile and cardiovascular disease (CVD) events	Others	20-49 years of age
Kajinami 2019	Real-World Data to Identify Hypercholesterolemia Patients on Suboptimal Statin Therapy	MDV		Nationwide		2008	2017 Medical treatment status		Diseases of the circulatory system	Endocrine, nutritional and metabolic diseases	dyslipidemia patients with atherosclerotic cardiovascular disease	Others	over 20 years
Seposo 2020	Short-term effects of air pollution on daily single- and co-morbidity cardiorespiratory outpatient visits	JMDC		Nationwide		2013	2016 Clinical epidemiology, course of diseases		Diseases of the circulatory system	Diseases of the respiratory system	Cardiovascular-related (100-199) and respiratory-related (100-J99) outpatient clinic visit visits		all ages
Sasabuchi 2020	Clinical Impact of Prescribed Doses of Nutrients for Patients Exclusively Receiving Parenteral Nutrition in Japanese Hospitals: A Retrospective Cohort Study	MDV		Nationwide		2009	2018 Intervention effect	Quality of care	Diseases of the circulatory system		hospitalized patients who underwent central venous catheter (CVC) insertion	Others	aged ≥18 years
	[Selection of a method for detecting cases of severe pneumothorax associated with central venous catheterization using information on fee-for-medical-service : Potential utilizability of information from Fee-for-medical-service for internal audit]	DPC	medical records	Others	Medical Hospital, Tokyo Medical and Dental Universi	2012	2015 Research methodology	Health policy evaluation and utilization	Diseases of the circulatory system		severe pneumothorax associated with central venous catheterization		
	-				ty								
Matsuda 2018	[Big data analysis of medical and nursing care: An analysis of the current state of rehabilitation in patients with ischemic stroke using consolidated data on medical and nursing care]*	NHI/LSEHS	medical insurance claims and LTC insurance claims data		A municip ality in Western Japan	2011	2015 Medical treatment status		Diseases of the circulatory system		brain infarction		
Matsuda 2018	[Big data analysis of medical and nursing care: An analysis of the usage of medical and nursing care services of stroke patients using consolidated data on health insurance claims in medical and nursing care]*	NHI/LSEHS	medical insurance claims and LTC insurance claims data	Others		2012	2016 Medical treatment status	Health policy evaluation and utilization	Diseases of the circulatory system		brain infarction		
	[DPC based situation analysis of acute rehabilitation care for stroke patients in Japan]	DPC	DPC Research Group	Nationwide		2008	2008 Medical treatment status	Intervention effect	Diseases of the circulatory system		brain infarction		
Matsuda 2015	Analysis of Disease Structure for the Regional Health Care Plan Based on the National Database	NDB		Prefecture	Fukuoka	2010	2010 Health policy evaluation and utilization		Diseases of the circulatory system		cerebral infarction		
Kato 2019	[[Introduction to health economics for healthcare professionals] Information asymmetry between doctors and patients]*	DPC		Nationwide		2010	2016 Quality of care	Socioeconomic comparison	Diseases of the circulatory system		cerebral infarction		
Fujino 2014	Impact of regional clinical pathnays on the length of stay in hospital among stroke patients in Japan	DPC		Nationwide		2011	2012 Health policy evaluation and utilization		Diseases of the circulatory system		cerebral infarction		
	patients in Japan Medical Costs and Readmissions After Intensive Poststroke Rehabilitation: Japanese Claims Data	JMDC		Nationwide		2005	2017 Intervention effect	Health economics	Diseases of the circulatory system		cerebrovascular disorder (ICD-10: I60-I69)		
2021 Hatanaka 2016	Claims Data [Impact of drinking and smoking habits on cerebrovascular disease risk among male employees]	Others	DENSO Health Insurance Society	Others	DENSO Health Insuranc	2004	2013 Clinical epidemiology, course of diseases		Diseases of the circulatory system		cerebrovascular disease	Others	aged 20-46 years
Savama 2015	Visualization of medical care for cerebrovascular disorders	DPC	J-ASPECT Study	Nationwide	e	2012	2013 Intervention effe	t Research mothodole	ogy Diseases of the circulatory system		Cerebrovascular Disorders		
	Visualization of medicar care in Cerebrovascular disorders Proportion and risk factors of cholesterol crystal embolization after cardiovascular procedures: a retrospective national database study	DPC	- nor cor dudy	Nationwide		2012	2013 Intervention ener 2017 Clinical epidemiology, course of diseases	Intervention effect	Diseases of the circulatory system		Cholesterol crystal embolization (1749)	Others	aged \geq 40 years
Isogai 2015	Clinical Practice Patterns in Constrictive Parciarditis Patients With Heart Failure: A Retrospective Cohort Study Using a National Inpatient Database in Japan	DPC		Nationwide		2007	2013 Clinical epidemiology, course of diseases	Medical treatment status	Diseases of the circulatory system		Constrictive pericarditis (ICD-10 code I31.1)		
Ohbe 2021	Retrospective Cohort Study Using a National Inpatient Database in Japan Effect of Early Rehabilitation on Physical Function in Patients Undergoing Coronary Artery Bypass Grafting: A Nationwide Inpatient Database Study	DPC		Nationwide		2010	2018 Intervention effect		Diseases of the circulatory system		patients who underwent a coronary artery bypass grafting	Others	excluded patients aged <18 years
Kawamoto	[The Adherence with Critical Pathways for Angina Pectoris Undergoing Percutaneous	DPC	PCI critical pathways	Others	10	2011	2011 Medical treatment status	Quality of care	Diseases of the circulatory system		Percutaneous coronary intervention for angina		/

Shimada 202						0010	0015 0 W (No. doil to be a	6 8 4 6 8 4		
	0 Guideline-Based Medications for Older Adults Discharged after Percutaneous Coronary Intervention in a Suburban City of Japan: A Cohort Study Using Claims Data	NHI/LSEHS	The National Health Insurance system and Late Elders' Health Insurance		Kashiwa City	2012	2015 Quality of care		Diseases of the circulatory system	after discharge following percutaneous coronar intervention	y Older persons	Older Adults
Nakajima 202	20 Prevalence of myocardial injury requiring percutaneous coronary intervention after acute carbon monoxide poisoning	DPC		Nationwide		2010	2017 Clinical epidemiology, course of diseases		Diseases of the circulatory system Injury, poisoning and certain other consequences of external causes			
Hagiwara 202	21 A comparison of the safety and effectiveness of prasugrel and clopidogrel in younger population undergoing percutaneous coronary intervention: A retrospective study using a Japanese claims database	JMDC		Nationwide		2014	2018 Intervention effect		Diseases of the circulatory system	patients undergoing percutaneous coronary intervention		
Maeda 2021	Changes in processor and the COVID-19 outbreak: LIFE Study	NHI/LSEHS	National Health Insurance and Later- Stage Elderly Healthcare System	Municipality	Kobe City	2018	2020 COVID-19	Medical treatment status	Diseases of the circulatory system	percutaneous coronary intervention		age categories
Seki 2019	Follow-up tests and outcomes for patients undergoing percutaneous coronary intervention: analysis of a Japanese administrative database	MDV	Treatmane System	Nationwide		2010	2013 Intervention effect		Diseases of the circulatory system	patients undergoing percutaneous coronary intervention	Others	aged ≥ 18 years
Ono 2018	Utilization of Anticoagulant and Antiplatelet Agents Among Patients With Atrial Fibrillation Undergoing Percutaneous Coronary Intervention - Retrospective Cohort Study Using a Nationwide Claims Database in Japan	NDB		Nationwide		2014	2015 Medical treatment status		Diseases of the circulatory system	Atrial Fibrillation Undergoing Percutaneous Coronary Intervention		
Ochibe 2020		NDB		Nationwide		2015	2016 Intervention effe	ct	Diseases of the circulatory system Others	statin administration during PCI and cardiovascular events		
Pietzsch 2018	Cost-effectiveness of orbital atherectomy compared to rotational atherectomy in treating patients with severely calcified coronary artery lesions in Japan	MDV	Clinical data: published literature	Nationwide		2014	2016 Health economics		Diseases of the circulatory system	severely calcified coronary artery lesions		
Kanazawa 2017		JMDC		Nationwide	-	2006	2013 Patient health service utilization		Diseases of the circulatory system	coronary artery disease	Others	aged ≥18 years
	21 Trends, Treatment Approaches, and In-Hospital Mortality for Acute Coronary Syndrome in Japan During the Coronavirus Disease 2019 Pandemic		QIP	Nationwide		2018	2020 COVID-19	Medical treatment status	Diseases of the circulatory system	acute coronary syndrome	Others	aged 18 years or olde
Tanaka 2019	Treatment strategy modification and its implication on the medical cost of fractional flow reserve-guided percutaneous coronary intervention in Japan	MDV	CVIT-DEFER Registry study	Nationwide		2008	Health economics	Health policy evaluation and utilization	Diseases of the circulatory system	stable coronary artery disease		
Yamada 2015	5 Benchmark Analysis and Comparative Study of the Quality Indicators of ACS/AMI with the DPC Data	DPC	MDV: EVE	Others	JADECO M: 13 hospital	2012	2012 Quality of care		Diseases of the circulatory system	acute coronary syndrome, acute myocardial infarction		
Isogai 2015	Hospital volume and cardiac complications of endomyocardial biopsy: a retrospective cohort study of 9508 adult patients using a nationwide inpatient database in Japan	DPC		Nationwide		2010	2013 Health policy evaluation and utilization		Diseases of the circulatory system	complications with endomyocardial biopsy	Others	aged \geq 20 years
Ooba 2020	Frequency of Clinical Monitoring of Serum Concentrations of Digoxin, Potassium, and Creatinine, and Recording of Electrocardiograms in Digoxin-Treated Patients: A Japanese	JMDC		Nationwide		2005	2014 Medical treatment status	Quality of care	Diseases of the circulatory system	digoxin prescription	Others	aged 20–74 years
Kitamura 2024	Claims Database Analysis 20 Patient characteristics, procedure details including catheter devices, and complications of catheter ablation for ventricular tachycardia: a nationwide observational study	DPC		Nationwide		2010	2017 Clinical epidemiology, course of diseases	Medical treatment status	Diseases of the circulatory system	structural heart disease	Others	aged ≥18 years
Mizuno 2020	Impact of facilities accredited by both adult and pediatric cardiology societies on the outcome of patients with adult congenital heart disease	DPC	JROAD-DPC	Nationwide	JCS- certified teaching hospital	2013	2014 Health policy evaluation and utilization		Diseases of the circulatory system	adult congenital heart disease	Others	aged ≥15 years
Isogai 2018	Clinical features and peripartum outcomes in pregnant women with cardiac disease: a nationwide retrospective cohort study in Japan	DPC		Nationwide		2008	2014 Medical treatment status	Clinical epidemiology, course of diseases	Diseases of the circulatory system Pregnancy, childbirth and the puerperium	cardiac disease (pregnant women)		
2019	Impact of Body Mass Index on Activities of Daily Living in Inpatients with Acute Heart Failure	JMDC		Nationwide		2014		01360363	puerperium			
Tamaki 2019						2014	2017 Clinical epidemiology, course of diseases	01568363	Diseases of the circulatory system Endocrine, nutritional and metabolic diseases	acute heart failur, overweight and obese	Others	aged 20 year or older
	Characteristics of heart failure patients incurring high medical costs via matching specific health examination results and medical claim data: a cross-sectional study	NHI/LSEHS	NHI	Municipality	Hiroshi ma City	2014		Clinical epidemiology, course of diseases	Diseases of the circulatory system Endocrine, nutritional and	acute heart failur, overweight and obese heart failure	Others Others	aged 20 year or older 40 to 74 years
Sasaki 2017	health examination results and medical claim data: a cross-sectional study		NHI QIP	Municipality Nationwide			diseases	Clinical epidemiology, course of	Diseases of the circulatory system Endocrine, nutritional and metabolic diseases			40 to 74 years
Nakao 2015	health examination results and medical claim data: a cross-sectional study Differences between determinances of in-hospital mortality and hospitalisation costs for patients with acute heart failure: a nationwide observational study from Japan [Actual use of a vasopressin V2 receptor antagenist in hospitalized heart failure patients : using a Japanes hospital database]	DPC MDV	QIP	Nationwide Nationwide	ma City	2016 2010 2011	diseases 2017 Health economics 2011 Health economics 2013 Medical treatment status	Clinical epidemiology, course of diseases	Diseases of the circulatory system Endocrine, nutritional and metabolic diseases Diseases of the circulatory system Diseases of the circulatory system	heart failure heart failure (150.x) heart failure	Others Others Others	aged 20 years or older aged 20 years or older
Nakao 2015	health examination results and medical claim data: a cross-sectional study Differences between determinants of in-hospital mortality and hospitalisation costs for patients with acute heart failure: a nationwide observational study from Japan [Actual use of a vasopressin V2 receptor antagonist in hospitalized heart failure patients	DPC MDV	QIP	Nationwide Nationwide Others	A A municip ality in Western	2016 2010	diseases 2017 Health economics 2011 Health economics	Clinical epidemiology, course of	Diseases of the circulatory system Endocrine, nutritional and metabolic diseases Diseases of the circulatory system Diseases of the circulatory system	heart failure heart failure (150.x)	Others Others Others	40 to 74 years aged 20 years or olde
Nakao 2015	health examination results and medical claim data: a cross-sectional study Differences between determinants of in-hospital mortality and hospitalisation costs for patients with acute heart failure: a nationwide observational study from Japan [Actual use of a vasopressin V2 receptor antagonist in hospitalized heart failure patients : using a Japanese hospital database] 9 [Big data analysis of medical and rursing care: An analysis of the usage of medical and nursing care services of elderly heart failure patients using consolidated data on health insurance claims in medical and nursing care]* Association Between Early Rehabilitation and Mobility Status in Elderly Inpatients with	DPC MDV NHI/LSEHS	QIP medical insurance claims and LTC insurance claims data	Nationwide Nationwide Others	A A ality in	2016 2010 2011	diseases 2017 Health economics 2011 Health economics 2013 Medical treatment status 2016 Clinical epidemiology, course of	Clinical epidemiology, course of diseases Health policy evaluation and	Diseases of the circulatory system Endocrine, nutritional and metabolic diseases Diseases of the circulatory system Diseases of the circulatory system	heart failure heart failure (150.x) heart failure	Others Others Others Older persons	40 to 74 years aged 20 years or olde aged 20 years or olde aged 65 years or olde excluded aged less th
Nakao 2015 Matsuda 2019 Yagi 2018	heath examination results and medical claim data: a cross-sectional study Differences between determinants of in-hospital mortality and hospitalisation costs for patients with acute heart failure: a nationwide observational study from Japan [Actual use of a vasopressin V2 receptor antagonist in hospitalized heart failure patients : using a Japanese hospital database] 9 [Big data analysis of medical and nursing care: An analysis of the usage of medical and nursing care services of eldorth host failure patients using consolidated data on health insurance claims in medical and nursing care]*	DPC MDV NHI/LSEHS DPC	QIP medical insurance claims and LTC insurance claims data	Nationwide Nationwide Others Nationwide Others	A A municip ality in Western Japan A municip ality in Western	2016 2010 2011 2012	diseases 2017 Health economics 2011 Health economics 2013 Medical treatment status 2016 Clinical epidemiology, course of diseases	Clinical epidemiology, course of diseases Health policy evaluation and	Diseases of the circulatory system Endocrine, nutritional and metabolic diseases Diseases of the circulatory system Diseases of the circulatory system Diseases of the circulatory system	heart failure heart failure (150.x) heart failure heart failure	Others Others Others Older persons Others	40 to 74 years aged 20 years or olde aged 20 years or olde aged 65 years or olde excluded aged less th 60 years
Nakao 2015 Matsuda 2019 Yagi 2018 Matsuda 2018	health examination results and medical claim data: a cross-sectional study Differences between determinants of in-hospital mortality and hospitalisation costs for patients with acute heart failure: a nationwide observational study from Japan [Actual use of a vasopressin VZ receptor antagonist in hospitalized heart failure patients : using a Japanese hospital database] [Big data analysis of medical and nursing care: An analysis of the usage of medical and nursing care services of elderly heart failure patients using consolidated data on health insurance claims in medical and nursing care]* Association Between Early Rehabilitation and Mobility Status in Elderly Inpatients with Heart Failure: A Nationwide Retrospective Cohort Study 8 Big data analysis of onledical and nursing care: An analysis of factors related to medical and long-term care benefit costs for olderly poolpe requiring [ing-term care with chronic	DPC MDV NHI/LSEHS DPC	QIP medical insurance claims and LTC insurance claims data medical insurance claims and LTC insurance claims data	Nationwide Nationwide Others Nationwide Others Others Others	A A municip ality in Western Japan A municip ality in	2016 2010 2011 2012 2012	diseases 2017 Health economics 2011 Health economics 2013 Medical treatment status 2016 Clinical epidemiology, course of diseases 2014 Intervention effect	Clinical epidemiology, course of diseases Health policy evaluation and	Diseases of the circulatory system	heart failure heart failure (150.x) heart failure heart failure	Others Others Others Older persons Others Older persons	40 to 74 years aged 20 years or olde aged 65 years or olde excluded aged less th 60 years aged 65 years or olde
Nakao 2015 Matsuda 2019 Yagi 2018 Matsuda 2018	heath examination results and medical claim data: a cross-sectional study Differences between determinants of in-hospital mortality and hospitalisation costs for patients with acute heart failure: a nationwide observational study from Japan (Actual use of a vasopressin V2 receptor antagonist in hospitalized heart failure patients : using a Japanese hospital database] 9 Big data analysis of medical and nursing care: An analysis of the usage of medical and nursing care services of elderly heart failure patients using consolidated data on health insurance claims in medical and nursing care]* Association Between Early Rehabilitation and Mobility Status in Elderly Inpatients with Heart Failure: A Nationwide Retrospective Cohort Study 8 Big data analysis of medical and nursing care: An analysis of factors related to medical and long-term care benefit costs for elderly people requiring long-term care with chronic heart failure using the comprehensive medical and long-term care database]* 8 Big data analysis of medical and nursing care: An analysis of factors related to the deaths of elderly people requiring long-term care with chronic heart failure using the	DPC MDV NHI/LSEHS DPC NHI/LSEHS	QIP medical insurance claims and LTC insurance claims data medical insurance claims and LTC insurance claims data medical insurance claims and LTC	Nationwide Nationwide Others Nationwide Others Others Others	A municip ality in Western Japan A municip ality in Japan A municip ality in Japan A wunicip ality in Western Japan	2016 2010 2011 2012 2010 2010	diseases 2017 Health economics 2011 Health economics 2013 Medical treatment status 2016 Clinical epidemiology, course of diseases 2014 Intervention effect 2016 Health economics 2016 Clinical epidemiology, course of	Clinical epidemiology, course of diseases Health policy evaluation and	Diseases of the circulatory system	heart failure heart failure heart failure heart failure heart failure chronic heart failure	Others Others Others Older persons Others Older persons	40 to 74 years aged 20 years or olde aged 65 years or olde aged 65 years or olde excluded aged less th 60 years aged 65 years or olde
Nakao 2015 Matsuda 2019 Yagi 2018 Matsuda 2018 Matsuda 2018 Abe 2021 Kusunose 202	health examination results and medical claim data: a cross-sectional study Differences between determinants of in-hospital mortality and hospitalisation costs for patients with acute heart failure: a nationwide observational study from Japan [Actual use of a vasopressin V2 receptor antagonist in hospitalized heart failure patients using a Japanes hospital database] 9 [Big data analysis of medical and nursing care: An analysis of the usage of medical and nursing care services of elderly heart failure patients using consolidated data on health insurance claims in medical and nursing care?* Association Between Early Rehabilitation and Mobility Status in Elderly Inpatients with Heart Failure: A Nationwide Retrospective Cohort Study B [Big data analysis of medical and nursing care: An analysis of factors related to medical and long-term care benefit costs for elderly people requiring long-term care with chronic heart failure using the comprehensive medical and long-term care database]* 8 [Big data analysis of medical and nursing care: An analysis of factors related to the deaths of elderly people requiring long-term care database]* Actual state of "triple therapy" for heart failure patients in eight regions of Japan: An analysis of a nationwide medical claims database 21 Association between twinnin D and Heart Failure Matality in 10.974 Hospitalized Individuis	DPC MDV NHI/LSEHS DPC NHI/LSEHS	QIP medical insurance claims and LTC insurance claims data medical insurance claims and LTC insurance claims data medical insurance claims and LTC	Nationwide Nationwide Others Others Others	A municip ality in Western Japan A municip ality in Japan A municip ality in Japan A wunicip ality in Western Japan	2016 2010 2011 2012 2010 2010 2011 2008	diseases 2017 Health economics 2011 Health economics 2013 Medical treatment status 2016 Clinical epidemiology, course of diseases 2014 Intervention effect 2016 Health economics 2016 Clinical epidemiology, course of diseases	Clinical epidemiology, course of diseases Health policy evaluation and utilization	Diseases of the circulatory system	heart failure (150.x) heart failure heart failure heart failure chronic heart failure chronic heart failure	Others Others Others Older persons Others Older persons Older persons	40 to 74 years aged 20 years or olde aged 20 years or olde aged 65 years or olde excluded aged less th 60 years aged 65 years or olde aged 65 years or olde

Kaneko 2021	Impact of hospital volume on clinical outcomes of hospitalized heart failure patients:	DPC	DPC Study Group	Nationwide	20	010	2018 Health policy evaluation and		Diseases of the circulatory system	heart failure (ICD-10 codes I50.0, I50.1, and	Others	aged ≥20 years
Kuragaichi	analysis of a nationwide database including 447,818 patients with heart failure	MDV			20		utilization 2018 Medical treatment status			150.9) heart failure (150,111.0, 113.0, and 113.2)		
2021	Temporal trends of a vasopressin V2 receptor antagonist in heart failure using a nationwide database in Japan	MDV		Nationwide	20	108	2018 Medical treatment status		Diseases of the circulatory system	heart failure (I50,111.0, 113.0, and 113.2)		
Itoh 2020	Reverse J-shaped relationship between body mass index and in-hospital mortality of patients hospitalized for heart failure in Japan	DPC		Nationwide	20)10	2018 Clinical epidemiology, course of diseases		Diseases of the circulatory system	hospitalized heart failure patients	Others	aged ≥ 20 years
Kaku 2020	Impact of Hospital Practice Factors on Mortality in Patients Hospitalized for Heart Failure in Japan - An Analysis of a Large Number of Health Records From a Nationwide Claims-Based Database, the JROAD-DPC	DPC	JROAD-DPC	Nationwide	(hospital 20) s agreed to participa te in the JROAD- DPC databas	012	2014 Health policy evaluation and utilization		Diseases of the circulatory system	hospitalized heart failure patients		
					e study)				6		A	
Kaneko 2020	Characteristics and Outcomes of Super-Elderly Patients (Aged >=90 Years) Hospitalized for Heart Failure - Analysis of a Nationwide Inpatient Database	1 DPC		Nationwide	20	010	2018 Clinical epidemiology, course of diseases		Diseases of the circulatory system	super-elderly heart failure	Others	aged ≥20 years
Nagai 2019	Effect of intravenous carperitide versus nitrates as first-line vasodilators on in-hospital outcomes in hospitalized patients with acute heart failure: Insight from a nationwide claim-based database	DPC	JROAD-DPC	Nationwide	20	012	2014 Intervention effect		Diseases of the circulatory system	acute heart failure	Others	aged ≥20 years
	9 [Regional comparison of health care quality using DPC data]*	DPC		Nationwide	20		2016 Quality of care	Socioeconomic comparison	Diseases of the circulatory system	acute heart failure, stroke		
Chen 2021	Disease Management and Outcomes in Patients Hospitalized for Acute Heart Failure in Japan	MDV		Nationwide	20	013	2017 Medical treatment status		Diseases of the circulatory system	acute heart failure	Others	Adult patients
Ide 2021	Clinical Characteristics and Outcomes of Hospitalized Patients With Heart Failure From the Large-Scale Japanese Registry Of Acute Decompensated Heart Failure (JROADHF)	DPC	JROAD	Nationwide	20)13	2017 Clinical epidemiology, course of diseases		Diseases of the circulatory system	heart failure		
Kaneko 2021	Early Initiation of Feeding and In-Hospital Outcomes in Patients Hospitalized for Acute Heart Failure	DPC		Nationwide	20	010	2018 Intervention effect		Diseases of the circulatory system	acute heart failure	Others	aged ≥ 20 years
Yasui 2021	Association between ambulance use and hospitalization costs among heart failure	DPC		Nationwide	20	014	2015 Health economics		Diseases of the circulatory system	heart failure		
Itoh 2020	patients Serial Changes in Clinical Presentations and Outcomes of 5,740 Patients Requiring	DPC		Nationwide	20	010	2018 Clinical epidemiology, course of		Diseases of the circulatory system	heart failure	Others	aged ≥20 years
Kaneko 2020	Repeated Hospital Admissions (Four or More Times) due to Worsened Heart Failure Association between the number of hospital admissions and in-hospital outcomes in	DPC		Nationwide	20	010	diseases 2018 Clinical epidemiology, course of	Medical treatment status	Diseases of the circulatory system	heart failure	Others	aged ≥20 years
Konishi 2020	patients with heart failure Impact of population density on mortality in patients hospitalized for heart failure -	DPC	J-ROAD-DPC	Nationwide	20)12	diseases 2015 Clinical epidemiology, course of	Socioeconomic comparison	Diseases of the circulatory system	heart failure	Others	aged ≥20 years
Mitani 2020	JROAD-DPC Registry Analysis In-hospital resource utilization, worsening heart failure, and factors associated with	MDV		Nationwide	20)12	diseases 2016 Clinical epidemiology, course of	Medical treatment status	Diseases of the circulatory system	heart failure	Others	aged ≥20 years
	length of hospital stay in patients with hospitalized heart failure: A Japanese database cohort study						diseases					
	Hospitalization Costs for Patients With Acute Congestive Heart Failure in Japan	DPC	J-ROAD	Nationwide	20		2015 Health economics		Diseases of the circulatory system	Acute Congestive Heart Failure	Others	aged ≥20 years
Kanaoka 2019	Number of Cardiologists per Cardiovascular Beds and In-Hospital Mortality for Acute Heart Failure: A Nationwide Study in Japan	DPC	J-ROAD	Nationwide	20	012	2014 Health policy evaluation and utilization		Diseases of the circulatory system	Acute Heart Failure	Others	aged ≥20 years
Suzuki 2019	Effectiveness of Early Rehabilitation for Acute Heart Failure: A RETROSPECTIVE COHORT STUDY	JMDC		Nationwide	20)14	2017 Intervention effect		Diseases of the circulatory system	Acute Heart Failure	Older persons	aged ≥65 years
Mizuno 2017	The impact of carperitide usage on the cost of hospitalization and outcome in patients with acute heart failure: High value care vs. low value care campaign in Japan	DPC		Nationwide	20	014	2015 Intervention effect	Health economics	Diseases of the circulatory system	acute heart failure	Others	aged ≥18 years
Aizawa 2015	Factors associated with 30-day readmission of patients with heart failure from a lananese administrative database	DPC		Nationwide	20	012	2013 Clinical epidemiology, course of diseases		Diseases of the circulatory system	Heart failure		age categories
Akazawa 2013	Economic impact of switching to fixed-dose combination therapy for Japanese	Others	Nihon Chouzai	Prefecture	Tokyo 20	010	2011 Health economics	Health policy evaluation and	Diseases of the circulatory system	hypertensive patients		
	hypertensive patients: a retrospective cost analysis		pharmacy claims					utilization				
Ishida 2019	Treatment patterns of antihypertensive fixed-dose combinations according to age and	MDV	database	Nationwide	20	014	2015 Medical treatment status		Diseases of the circulatory system	hypertension		
15/160 2015	number of agents prescribed: Retrospective analysis using a Japanese claims database			That is minde	20.				bisedies of the directory system	in percension		
Ishida 2018	Current use of antihypertensive drugs in Japanese patients with hypertension: Analysis	MDV		Nationwide	20)13	2015 Medical treatment status	Socioeconomic comparison	Diseases of the circulatory system	hypertension		age group
Kuriyama 201	by age group 5 Predicting failure to follow-up screened high blood pressure in Japan: a cohort study	JMDC		Nationwide	20	005	2011 Patient health service utilization		Diseases of the circulatory system	hypertension	Others	aged ≥20 years
Nishimura	Adherence to antihypertensive medication and its predictors among non-elderly adults in			Nationwide	20		2016 Patient health service utilization		Diseases of the circulatory system	hypertensive patients	Others	30-74 years of age
2020 Fukushima	Japan Impact of Hypertension on Hospitalizations for Cardiovascular Diseases in a Worksite	JMDC		Nationwide	20	008	2015 Clinical epidemiology, course of	Intervention effect	Diseases of the circulatory system	Cardiovascular Diseases, hypertension	Others	aged 40–64 years
2019 Ishida 2019	Population: An Epidemiologic Study Using Claims Data for Workers Current prescription status of antihypertensive drugs in Japanese patients with	MDV		Nationwide	20)14	diseases 2015 Quality of care		Diseases of the circulatory system	hypertension	Others	aged ≥20 years
Takahashi	hypertension: Analysis by type of comorbidities [Antihypertensive Drug Use for Resistant Hypertension in Real-World Settings at	MDV	MDV	Nationwide	20)13	2013 Medical treatment status		Diseases of the circulatory system	Resistant Hypertension	Others	aged ≥36 years
2017 Hiroi 2016	Hospitals with Diagnosis Procedure Combination (DPC) System in Japan] Analysis of second- and third-line antihypertensive treatments after initial therapy with	Others	JMDC and MDV	Nationwide	20	008	2015 Medical treatment status		Diseases of the circulatory system	hypertensive Japanese patients		
	an angiotensin II receptor blocker using real-world Japanese data											
Hiragi 2021	Association between the size of healthcare facilities and the intensity of hypertension therapy: a cross-sectional comparison of prescription data from insurance claims data	NDB	Sampling data	Nationwide	20		2014 Medical treatment status	Health policy evaluation and utilization	Diseases of the circulatory system	antihypertensive therapies		
Kaneko 2020	Association of Isolated Diastolic Hypertension Based on the Cutoff Value in the 2017 American College of Cardiology/American Heart Association Blood Pressure Guidelines	JMDC		Nationwide	20	005	2018 Clinical epidemiology, course of diseases	Intervention effect	Diseases of the circulatory system	isolated diastolic hypertension	Others	aged ≥20 years
Ishida 2019	With Subsequent Cardiovascular Events in the General Population Treatment patterns and adherence to antihypertensive combination therapies in Japan	MDV		Nationwide	20)14	2016 Medical treatment status	Patient health service utilization	Diseases of the circulatory system	hypertension	Others	aged ≥20 years
Ohishi 2019	using a claims database Analysis of antihypertensive treatment using real-world Japanese data: the retrospective		JMDC, MDV	Nationwide	20	008	2016 Medical treatment status		Diseases of the circulatory system	hypertension		
	study of antihypertensives for lowering blood pressure(REAL) study											
Saito 2016	Medication-taking behavior in hypertensive patients with a single-tablet, fixed-dose	Others	Jamm Net (Study 2)	Nationwide	20)13	2014 Patient health service utilization		Diseases of the circulatory system	hypertensive patients	Others	aged less than 75 years

hima 2015	[Evaluation of Concomitant Drug Use Among Patients Prescribed Amlodipine 10 mg Daily]	Others	MinaCare	Nationwide		2010	2014 Medical treatment status		Diseases of the circulatory system	hypertension		
uki 2015	[Patients' Adherence of Fixed-Dose Single Pill of Amlodipine/Atorvastatin in Comparison with Separate-Pill Amlodipine + Rosuvastatin Combination Therapy (Retrospective Cohort Study)]	1 Others	lyaku-Joho-Kenkyujo	Nationwide		2011	2013 Patient health service utilization		Diseases of the circulatory system	anti-hypertensive pill		
ro 2013	The impact of a change in hypertension management guidelines on diuretic use in Japan: trends in antihypertensive drug prescriptions from 2005 to 2011	JMDC		Nationwide		2005	2011 Medical treatment status	Health policy evaluation and utilization	Diseases of the circulatory system	hypertension	Others	aged ≥20 years
yama 2021	Surgical treatment for infective endocarditis in the ageing society: a nationwide retrospective study in Japan	DPC		Nationwide		2010	2018 Clinical epidemiology, course of diseases	Medical treatment status	Diseases of the circulatory system	infective endocarditis	Others	aged \geq 20 years
e 2021	Increased risk of infective endocarditis after traumatic skin wound	Others	JMDC, National Health Insurance and Kumamoto database (Later-Stage Elderly	Others	JMDC and Kumam oto	2012	2018 Intervention effect		Diseases of the circulatory system	infective endocarditis (133)	Others	aged ≥20 years
			Healthcare System)		databas e							
ogi 2018	Comparing intracerebral hemorrhages associated with direct oral anticoagulants or warfarin	DPC	J-ASPECT Study	Nationwide		2010	2015 Clinical epidemiology, course o disease		ect Diseases of the circulatory system	intracerebral hemorrhages (161.0-9, 162.0-1, and 162.9)		
tsuda 2018	[Big data analysis of medical and nursing care: An analysis of the current status of PCI implementation for elderly people with ischemic heart disease requiring long-term care)*		medical insurance claims and LTC insurance claims data	Others	A municip ality in Western Japan	2011	2017 Medical treatment status	Quality of care	Diseases of the circulatory system	ischemic heart disease	Older person	s Older People
anaka 201	5 [Risk factors for ischemic heart disease in males in the prime of life: An eight-year follow-up study]	Others	DENSO Health Insurance Society	Others	DENSO Health Insuranc	2003	2011 Clinical epidemiology, course of diseases		Diseases of the circulatory system	ischemic heart disease	Others	30-55 years old
ing 2012	Impact of hypertension, diabetes and dyslipidemia on ischemic heart disease among Japanese: A case-control study based on National Health Insurance medical claims	NHI/LSEHS	NHI	Prefecture	Nagasak	2010	2010 Clinical epidemiology, course of diseases		Diseases of the circulatory system Endocrine, nutritional and metabolic diseases	Ischemic heart disease (hypertension, diabe and dyslipidemia)	tes Others	40-79 years old
ijita 2020	Upper gastrointestinal bleeding in Japanese patients with ischemic heart disease receiving vonoprazan or a proton pump inhibitor with multiple antithrombotic agents: A nationwide database study	MDV		Nationwide		2016	2017 Intervention effect		Diseases of the circulatory system	ischemic heart disease (120–125)		
ita 2017	Tautonwide database study [Evaluation of Secondary Healthcare Area on ischemic heart diseases from data of beneficiaries of Fukuoka Branch of National Health Insurance Association]	JHIA	Fukuoka Branch	Prefecture	Fukuoka	2014	2015 Medical treatment status	Health policy evaluation and utilization	Diseases of the circulatory system	ischemic heart diseases		
ta 2017	benenicaires of rukuoka pranch of National Health Insurance Association] [A study on hospitalization behavior and setting of secondary medical care zones by insurer for ischemic heart disease using data on health insurance claims]*	NHI/LSEHS	Insurance and Later- Stage Elderly	Prefecture	Fukuoka	2014	2015 Medical treatment status	Health policy evaluation and utilization	Diseases of the circulatory system	ischemic heart diseases		
kuda 2014	Ischemic stroke after cervical spine injury: analysis of 11,005 patients using the Japanese	e DPC	Healthcare System	Nationwide		2007	2010 Clinical epidemiology, course of		Diseases of the circulatory system	Ischemic stroke		
mashita	Diagnosis Procedure Combination database Comparison of hospital length of stay of acute ischemic stroke patients with non-valvular	r MDV		Nationwide		2012	diseases 2015 Intervention effect		Diseases of the circulatory system	acute ischemic stroke	Others	≥20 year of age
20	atrial fibrillation started on rivaroxaban or warfarin treatment during hospitalization											
yamoto 20	Expanded Indication for Recombinant Tissue Plasminogen Activator from 3 to 4.5 h after Onset of Stroke in Japan	DPC		Nationwide		2010	2014 Intervention effect		Diseases of the circulatory system	acute ischemic stroke	Others	aged ≥18 years
la 2019	National trends in outcomes of ischemic stroke and prognostic influence of stroke center capability in Japan, 2010-2016	DPC	J-ASPECT (Japan Neurosurgical Society and Japan Stroke Society)	Nationwide		2010	2016 Clinical epidemiology, course of diseases	Health policy evaluation and utilization	Diseases of the circulatory system	acute ischemic stroke		
subo 2015	Regional variations in in-hospital mortality, care processes, and spending in acute ischemic stroke patients in Japan	NDB	National Health Insurance beneficiaries and Long-Life Medical Care System beneficiaries	Prefecture	8 prefectu res (Fukui, Mie, Shiga, Kyoto, Osaka, Nara, Wakaya ma, and Hyogo)	2010	2012 Medical treatment status	Socioeconomic comparison	Diseases of the circulatory system	ischemie stroke	Older person	s aged ≥65 years
e 2013	Derivation and validation of in-hospital mortality prediction models in ischaemic stroke patients using administrative data	DPC	QIP	Nationwide	176 hospital	2010	2011 Prediction model	Clinical epidemiology, course of diseases	Diseases of the circulatory system	ischaemic stroke	Others	aged ≥18 years
eda 2021	Risk of Stroke in Atrial Fibrillation According to Sex in Patients Aged Younger Than 75 Years: A Large-Scale, Observational Study Using Real-World Data	JMDC		Nationwide	-	2005	2017 Clinical epidemiology, course of diseases		Diseases of the circulatory system	ischaemic stroke in patients with atrial fibrillation	Others	aged ≥20 years
și 2017		DPC		Nationwide		2012	2014 Intervention effect		Diseases of the circulatory system	Ischemic Stroke	Others	aged >20 years
moto 2015	Effectiveness of Hospital Functions for Acute Ischemic Stroke Treatment on In-Hospital Mortality, Results From a Nationwide Survey in Japan	DPC		Nationwide		2010	2010 Health policy evaluation and		Diseases of the circulatory system	acute ischemic stroke	Others	aged ≥20 years
da 2015	Relationship between hospital volume and early outcomes in acute ischemic stroke patients treated with recombinant tissue plasminogen activator	DPC		Nationwide		2010	2012 Health policy evaluation and utilization		Diseases of the circulatory system	ischemic stroke		
	Effects of comprehensive stroke care capabilities on in-hospital mortality of patients with ischemic and hemorrhagic stroke: J-ASPECT study	h DPC	J-ASPECT Study	Nationwide		2010	2011 Health policy evaluation and utilization		Diseases of the circulatory system	Ischemic and Hemorrhagic Stroke		
ara 2014				Nationwide		2010	2012 Socioeconomic comparison	Medical treatment status	Diseases of the circulatory system	Acute ischemic stroke	Others	aged ≥18 years
	3 Association of geographical factors with administration of tissue plasminogen activator	DPC		NationWide								
ara 2014 Inisawa 201 ada 2014				Nationwide		2010	2012 Intervention effect	zt	Diseases of the circulatory system	acute ischemic stroke		

Maeda 2020	Increased Incident Ischemic Stroke Risk in Advanced Kidney Disease: A Large-Scale	JMDC		Nationwide		2005	2017 Clinical epidemiology, course of	Intervention effect	Diseases of the circulatory system		Ischemic Stroke, Advanced Kidney Disease	Others	aged ≥20 years
Ren 2021	Real-World Data Study Measuring quality of care for ischemic stroke treated with acute reperfusion therapy in	DPC	J-ASPECT study	Nationwide		2013	diseases 2015 Quality of care		Diseases of the circulatory system	system Diseases of the nervous system	acute ischemic stroke (ICD-10 codes: I63.0-	Others	aged ≥18 years
Naganuma	Japan — the close the gap-stroke — Clinical features of isolated dissections of abdominal aortic branches	DPC		Nationwide		2010	2013 Clinical epidemiology, course of		Diseases of the circulatory system		163.9) or transient ischemic attack (G45) isolated dissections of abdominal aortic		
2016							diseases				branches		
Mizuno 2018	Real clinical management of patients with isolated superior mesenteric artery dissection in Japan	DPC		Nationwide	141 hospital	2015	2015 Clinical epidemiology, course of diseases	Medical treatment status	Diseases of the circulatory system		isolated superior mesenteric artery dissection		
Otsubo 2012	[Readmission rate for health care delivery system assessment]	NHI/LSEHS	National Health Insurance and Later- Stage Elderly	Prefecture -	s Kyoto	2009	2010 Research methodology	Health policy evaluation and utilization	Diseases of the circulatory system		acute myocardial infarction		
			Healthcare System										
Kanazawa 2020	In-hospital cardiac rehabilitation and clinical outcomes in patients with acute myocardial infarction after percutaneous coronary intervention: a retrospective cohort study	I DPC		Nationwide		2012	2014 Intervention effect		Diseases of the circulatory system		acute myocardial infarction	Others	≥18 years of age
Miki 2019	Association of intensive care unit admission and mortality in patients with acute myocardial infarction	MDV		Nationwide		2014	2016 Intervention effect		Diseases of the circulatory system		acute myocardial infarction		age categories
Kanaoka 2018	Number of Board-Certified Cardiologists and Acute Myocardial Infarction-Related Mortality in Japan - JROAD and JROAD-DPC Registry Analysis	DPC	JROAD-DPC	Nationwide		2012	2014 Health policy evaluation and utilization		Diseases of the circulatory system		acute myocardial infarction	Others	aged ≥20 years
Isogai 2015	Effect of weekend admission for acute myocardial infarction on in-hospital mortality: a retrospective cohort study	DPC	DPC Study Group	Nationwide		2010	2013 Health policy evaluation and utilization		Diseases of the circulatory system		acute myocardial infarction	Others	aged ≥20 years
Matoba 2021	Institutional Characteristics and Prognosis of Acute Myocardial Infarction With Cardiogenic Shock in Japan - Analysis From the JROAD/JROAD-DPC Database	DPC	J-ROAD-DPC	Nationwide		2012	2016 Clinical epidemiology, course of diseases	Health policy evaluation and utilization	Diseases of the circulatory system		Acute Myocardial Infarction		
Nakao 2019	Prescription Rates of Guideline-Directed Medications Are Associated With In-Hospital Mortality Among Japanese Patients With Acute Myocardial Infarction: A Report From	DPC	JROAD-DPC	Nationwide		2012	2013 Intervention effect	Quality of care	Diseases of the circulatory system		Acute Myocardial Infarction	Others	aged ≥18 years
Uemura 2019	JROAD - DPC Study Primary Percutaneous Coronary Intervention in Elderly Patients With Acute Myocardial Infarction - An Analysis From a Jananese Nationwide Claim-Based Database	DPC	JROAD-DPC	Nationwide		2012	2015 Intervention effect	Medical treatment status	Diseases of the circulatory system		Acute Myocardial Infarction		
Ando 2018	Positive predictive value of ICD-10 codes for acute myocardial infarction in Japan: a	Others	DPC and non-DPC	Others	a large	2009	2011 Research methodology		Diseases of the circulatory system		acute myocardial infarction		
	validation study at a single center		claims data, electronic medical records		tertiary- care universit								
					y hospital								
Isogai 2016	Atrial natriuretic peptide therapy and in-hospital mortality in acute myocardial infarction patients undergoing percutaneous coronary intervention	DPC		Nationwide	nospitai	2010	2014 Intervention effect		Diseases of the circulatory system		acute myocardial infarction	Others	aged \geq 20 years
Yasuda 2016	The current status of cardiovascular medicine in Japan – Analysis of a large number of health records from a nationwide claim-based database. JROAD-DPC	DPC	JROAD-DPC	Nationwide		2012	2013 Clinical epidemiology, course of diseases	Medical treatment status	Diseases of the circulatory system		acute myocardial infarction and heart failure		
Nakai 2021	Validation of Acute Myocardial Infarction and Heart Failure Diagnoses in Hospitalized Patients With the Nationwide Claim-Based JROAD-DPC Database	DPC	JROAD-DPC, clinical dataset (from chart review)	Others	5 institutio	2012	2014 Research methodology		Diseases of the circulatory system		Acute Myocardial Infarction and Heart Failure (121.0-121.9 and 150.0-150.9)		
Kikuchi 2021	Database Analysis on the Relationships Between Nonsteroidal Anti-inflammatory Drug Treatment Variables and Incidence of Acute Myocardial Infarction in Japanese Patients	JMDC	review)	Nationwide	lis	2009	2018 Intervention effect		Diseases of the circulatory system	Diseases of the musculoskeletal system and connective tissue	acute myocardinal infarction, osteoarthritis and chronic low back pain	d Others	≥18 years of age
Isogai 2017	with Osteoarthritis and Chronic Low Back Pain Treatments and in-hospital mortality in acute myocardial infarction patients with	DPC		Nationwide		2010	2014 Medical treatment status	Clinical epidemiology, course of	Diseases of the circulatory system		acute myocardial infarction, rheumatoid	Others	aged ≥20 years
Ohki 2021	rheumatoid arthritis: a nationwide retrospective cohort study in Japan Pediatric Fulminant Myocarditis in Japan: A Retrospective Nationwide Database Study o	f DPC		Nationwide		2012	2018 Medical treatment status	diseases Clinical epidemiology, course of	Diseases of the circulatory system	system and connective tissue	arthritis acute myocarditis	Children	less than 18 years old
Isogai 2015	Hospital Volume, Management Practices, and Mortality Effect of intravenous immunoglobulin for fulminant myocarditis on in-hospital mortality:	DPC	DPC Study Group	Nationwide		2007	2013 Intervention effect	diseases	Diseases of the circulatory system		Fulminant myocarditis	Others	aged ≥16 years
Hosaka 2014	propensity score analyses Clinical and economic burden in patients with diagnosis of peripheral arterial disease in a	a JMDC		Nationwide		2005	2011 Clinical epidemiology, course of	Health economics	Diseases of the circulatory system		peripheral arterial disease	Others	45-64 years old
Isogai 2015	claims database in Japan Effectiveness of inferior vena cava filters on mortality as an adjuvant to antithrombotic	DPC		Nationwide		2007	diseases 2013 Intervention effect		Diseases of the circulatory system		pulmonary embolism (ICD-10 codes: I26.0,		
Makito 2021	therapy Spinal epidural hematoma and abscess after neuraxial anesthesia: a historical cohort	DPC		Nationwide		2010	2017 Intervention effect		Diseases of the circulatory system		126.9) Spinal epidural hematoma	Others	aged ≥20 years
Kakizaki 2018	study using the Japanese Diagnosis Procedure Combination database [Study on the probability of incident stroke and acute myocardial infarction using DPC data]	DPC	DPC data, Disease Registries for JPHC Research (comparison of the	Others	a single center	2011	2012 Research methodology		Diseases of the circulatory system		stroke, acute myocardial infarction	Others	aged \geq 40, <70 years
Kumazawa	Association between Angiotensin-Converting Enzyme Inhibitors and Post-Stroke Aspiration Pneumonia	DPC	number of cases)	Nationwide		2010	2016 Intervention effect		Diseases of the circulatory system	Diseases of the respiratory system	post-stroke (ICD-10 codes: I60-I63) aspiration	Others	aged ≥50 years
2019 Momosaki	Aspiration Pneumonia Proton Pump Inhibitors versus Histamine-2 Receptor Antagonists and Risk of Pneumonia in Patients with Acute Stroke	a DPC		Nationwide		2010	2013 Intervention effect		Diseases of the circulatory system	Diseases of the respiratory system	pneumonia (J13-J18 and J69) occurrence of pneumonia in acute stroke		
2016 Sakai 2013	How Does the Accuracy of ICD Coding Influence for Resource Consumption Under the	DPC		Nationwide		2008	2008 Health economics	Health policy evaluation and	Diseases of the circulatory system		patients stroke cases		
Hosoi 2020	Casemix Based Evaluation Association between comprehensive geriatric assessment and short-term outcomes among older adult patients with stroks: A nationwide retrospective cohort study using	DPC		Nationwide		2014	2017 Intervention effect	utilization	Diseases of the circulatory system		stroke (ICD-10 code: I63)	Older persons	aged 65 or older
Nishi 2017	propensity score and instrumental variable methods Impact of financial incentives for inter-provider care coordination on health-care resourc utilization among elderly acute stroke patients	e NHI/LSEHS	claims data of the DPC/PDPS	Prefecture	Fukuoka Prefectu	2010	2015 Health policy evaluation and utilization		Diseases of the circulatory system		acute stroke (ICD10 codes: I60-63)	Older persons	aged 75 years or older
Nishimura 2019	Development of Quality Indicators of Stroke Centers and Feasibility of Their Measurement Using a Nationwide Insurance Claims Database in Japan - J-ASPECT Stud	DPC	J-ASPECT	Nationwide	re	2013	2015 Quality of care		Diseases of the circulatory system		stroke	Others	Exclusion: <18 years of age
2019													

Wada 2016	Outcomes of Argatroban Treatment in Patients With Atherothrombotic Stroke: Observational Nationwide Study in Japan	DPC		Nationwide		2010	2012 Intervention effect		Diseases of the circulatory system		atherothrombotic stroke	Others	aged ≥40 years
Amin 2019	Trends in hospital standardized mortality ratios for stroke in Japan between 2012 and	DPC	Medi-Target	Nationwide		2012	2016 Clinical epidemiology, course of		Diseases of the circulatory system		stroke		
	2016: a retrospective observational study		benchmarking project (All Japan Hospital				diseases						
			Association: AJHA)										
Wada 2016	Ozagrel for Patients With Noncardioembolic Ischemic Stroke: A Propensity Score-	DPC		Nationwide		2010	2012 Intervention effect		Diseases of the circulatory system		noncardioembolic stroke	Others	aged ≥40 years
	Matched Analysis											A-1	
Matsui 2015	Variation in Risk-Standardized Mortality of Stroke among Hospitals in Japan	DPC		Nationwide		2012	2013 Health policy evaluation and utilization		Diseases of the circulatory system		stroke	Others	aged ≥20 years
Ido 2020	Effect of treatment modality and cerebral vasospasm agent on patient outcomes after	DPC	J-ASPECT Study	Nationwide		2010	2014 Intervention effect		Diseases of the circulatory system		subarachnoid hemorrhage		
	aneurysmal subarachnoid hemorrhage in the elderly aged 75 years and older		Diagnosis Procedure										
Matsuda 2018	[Big data analysis of medical and nursing care: An analysis of the prognosis of patients	NHI/LSEHS	medical insurance	Others	A	2011	2016 Clinical epidemiology, course of		Diseases of the circulatory system		subarachnoid hemorrhage		
	with subarachnoid hemorrhage: In relation to normal pressure hydrocephalus]*		claims and LTC insurance claims data		municip ality in		diseases						
			modrance claims date		Western								
11:		DPC		NUMBER OF	Japan	2010	AND ADDITION TO A DOMESTIC ADDITION	MAN PORTING TO CONTRACT	D:				
Hironaka 2020	Outcomes in Elderly Japanese Patients Treated for Aneurysmal Subarachnoid Hemorrhage: A Retrospective Nationwide Study	DPC		Nationwide		2010	2016 Clinical epidemiology, course of diseases	Medical treatment status	Diseases of the circulatory system		aneurysmal subarachnoid hemorrhage (ICD10 codes, 160.0-160.7)		age groups
Ikawa 2020	Risk Management of Aneurysmal Subarachnoid Hemorrhage by Age and Treatment	DPC		Nationwide		2010	2015 Intervention effect	1	Diseases of the circulatory system		aneurysmal subarachnoid hemorrhage		age group
Ikawa 2020	Method from a Nationwide Database in Japan In-hospital mortality and poor outcome after surgical clipping and endovascular coiling	DPC	systematic review	Nationwide		2010	2015 Intervention effect	1	Diseases of the circulatory system		aneurysmal subarachnoid hemorrhage		
	for aneurysmal subarachnoid hemorrhage using nationwide databases: a systematic		-,						,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,				
1/	review and meta-analysis	DPC	J-ASPECT	Nationwide		2010	2015 Health policy evaluation and		t Diseases of the circulatory system		subarachnoid hemorrhage		
Kurogi 2020	Effects of case volume and comprehensive stroke center capabilities on patient outcomes of clipping and coiling for subarachnoid hemorrhage	DPC	J-ASPECT	Nationwide		2010	utilization	Intervention effect	t Diseases of the circulatory system		subarachnoid nemorrnage		
Kurogi 2018	Effect of treatment modality on in-hospital outcome in patients with subarachnoid	DPC	J-ASPECT Study	Nationwide		2012	2013 Intervention effect	t in the second s	Diseases of the circulatory system		subarachnoid hemorrhage (160.0-9)		
Oda 2021	hemorrhage: a nationwide study in Japan (J-ASPECT Study) Snowfall reduces the risk of chronic subdural hematoma onset: Analysis of an	DPC		Nationwide		2010	2016 Clinical epidemiology, course of	1	Diseases of the circulatory system	Injury, poisoning and certain other	chronic subdural hematoma (162.0, S65.0)	Others	aged ≥40 years
	administrative database in Japan						diseases		,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,	consequences of external causes			
Kanaoka 2020	Role of climatic factors in the incidence of Takotsubo syndrome: A nationwide study from 2012 to 2016	DPC	JROAD-DPC (Japanese Circulation	Nationwide		2012	2016 Clinical epidemiology, course of diseases		Diseases of the circulatory system		Takotsubo syndrom (ICD-10 code I518)	Others	aged ≥ 20 years
	2012 to 2016		(Japanese Circulation Society)				diseases						
Isogai 2018	Clinical characteristics of patients with Takotsubo syndrome diagnosed without coronary	DPC		Nationwide		2011	2014 Medical treatment status		Diseases of the circulatory system		Takotsubo syndrome	Others	aged ≥ 20 years
Isogai 2017	artery evaluation: A retrospective nationwide study Seasonal variation in patient characteristics and in-hospital outcomes of Takotsubo	DPC		Nationwide		2011	2013 Clinical epidemiology, course of		Diseases of the circulatory system		Takotsubo syndrome (142.8, 142.9 or 151.8)	Others	aged ≥20 years
	syndrome: a nationwide retrospective cohort study in Japan						diseases						
Isogai 2014	Out-of-hospital versus in-hospital Takotsubo cardiomyopathy: analysis of 3719 patients in the Diagnosis Procedure Combination database in Japan	DPC		Nationwide		2010	2013 Clinical epidemiology, course of diseases		Diseases of the circulatory system		Takotsubo cardiomyopathy		
Isogai 2019		DPC		Nationwide		2010	2014 Clinical epidemiology, course of		Diseases of the circulatory system		In-hospital Takotsubo syndrome versus in-	Others	aged ≥20 years
	patients admitted for non-cardiac diseases: a nationwide inpatient database study	DPC				2010	diseases				hospital acute myocardial infarction	Others	
Isogai 2016	Early beta-blocker use and in-hospital mortality in patients with Takotsubo cardiomyopathy	DPC		Nationwide		2010	2014 Intervention effect		Diseases of the circulatory system		Takotsubo cardiomyopathy	Others	aged ≥20 years
Winburn 2019	Estimating the Prevalence of Transthyretin Amyloid Cardiomyopathy in a Large In-	MDV		Nationwide		2010	2018 Clinical epidemiology, course of		Diseases of the circulatory system		Transthyretin Amyloid Cardiomyopathy	Others	aged ≥ 20 years
Ikawa 2020	Hospital Database in Japan Propensity Score Matching Analysis for the Patients of Unruptured Cerebral Aneurysm	DPC		Nationwide		2010	2015 Intervention effect	•	Diseases of the circulatory system		unruptured cerebral aneurysms		age group
TRawa 2020	from a Post Hoc Analysis of a Nationwide Database in Japan	DIC		Nationwide		2010	2015 Intervention enect		Diseases of the circulatory system		unuptured cerebral allebryshis		age group
Ikawa 2019	Treatment Risk for Elderly Patients with Unruptured Cerebral Aneurysm from a	DPC		Nationwide		2010	2015 Intervention effect		Diseases of the circulatory system		Unruptured Cerebral Aneurysm	Others	12 to 93 years of age
Sakon 2015	Nationwide Database in Japan Economic Burden of Venous Thromboembolism in Patients Undergoing Major Abdominal	MDV		Nationwide		2003	2009 Clinical epidemiology, course of	Health economics	Diseases of the circulatory system		venous thromboembolosm	Others	aged 18 years or older
	Surgery						diseases						
Takai 2013	Economic Impact of Venous Thromboembolism Following Major Orthopaedic Surgery in Japan	MDV		Nationwide		2003	2009 Intervention effect	Health economics	Diseases of the circulatory system		Venous thromboembolism	Others	age ≥18 years
Yamashita	Temporal Trends in the Practice Pattern for Venous Thromboembolism in Japan: Insight	DPC	JROAD-DPC	Nationwide		2012	2017 Medical treatment status		Diseases of the circulatory system		venous thromboembolism	Others	aged ≥20 years
2020 Ohumma 2010	From JROAD-DPC Effect of Inferior Vena Cava Filter on Venous Thromboembolism Mortality in Japan -	DPC	JROAD-DPC	Nationwide		2012	2015 Intervention effect		Diseases of the circulatory system	Designers, shildhish and the	venous thromboembolism	Others	aged ≥20 years
Onyama 2019	JROAD and JROAD-DPC Registry Analysis	DFC	JROAD-DPC	Nationwide		2012	2015 Intervention enect		Diseases of the circulatory system	puerperium	venous unomboembolism	Others	aged 220 years
Nakamura	Predictors of venous thromboembolism recurrence and the bleeding events identified	MDV		Nationwide		2008	2013 Medical treatment status	Clinical epidemiology, course of	Diseases of the circulatory system		venous thromboembolism		
2017 10) Diseases o	using a Japanese healthcare database of the respiratory system (J00-J99)							diseases		puerperium			
	Nutritional management in inpatients with aspiration pneumonia: a cohort medical claims	MDV		Nationwide		2013	2018 Medical treatment status		Diseases of the respiratory system		aspiration pneumonia (ICD-10, J69)	Older persons	aged ≥65 years
Matsuda 2019	database study [Big data analysis of medical and nursing care: An analysis of presymptomatic situations	NHI/I SEHS	medical insurance	Others	A	2013	2014 Clinical epidemiology, course of		Diseases of the respiratory system		aspiration pneumonitis	Older persons	aged 65 years or older
	in patients with aspiration pneumonia)*	· · · II/ LOLI10	claims and LTC	0.00010	municip	2013	diseases		or or the respiratory system		asproved predmonitis	Sider persons	appa on years or older
			insurance claims data		ality in								
					Western Japan								
Momosaki	Predictive factors for oral intake after aspiration pneumonia in older adults	DPC		Nationwide		2011	2012 Clinical epidemiology, course of		Diseases of the respiratory system		aspiration pneumonia (ICD-10 code, J69)	Older persons	aged ≥65 years
2016 Yagi 2016	Effect of early rehabilitation on activities of daily living in patients with aspiration	DPC		Nationwide		2010	diseases 2013 Intervention effect		Diseases of the respiratory system		aspiration pneumonia (ICD-10 code: J69)	Older persons	excluded aged under 60
, agi 2010	pneumonia	510		. actor Wide		2010	2020 Intervention dildt		courses or the respiratory system		aspiration preumonia (ICD-10 COD8, 303)	order persons	years (elderly patients)
Momosaki	Effect of early rehabilitation by physical therapists on in-hospital mortality after aspiration pneumonia in the elderly	DPC		Nationwide		2010	2012 Intervention effect		Diseases of the respiratory system		aspiration pneumonia (ICD-10 codes, J69)	Older persons	aged 70 to 100 years
0.04 5													
2015 Momosaki	Effect of dysphagia rehabilitation on oral intake in elderly patients with aspiration	DPC		Nationwide		2010	2012 Intervention effect		Diseases of the respiratory system		aspiration pneumonia (ICD-10 codes, J69)	Older persons	excluded aged less than

Sasaki 2019	Quality Scope 医療の質への展望 「医療の質の評価・公表等推進事業」におけるDPCデー	DPC	(EF file)	Nationwide	68	2016	2017 Quality of care		Diseases of the respiratory system	aspiration pneumonia		
	タ活用による考察 誤嚥性肺炎の2指標について				hospital s							
Tsuneishi 201	[Association between Number of Teeth and Medical Visit due to Aspiration Pneumonia in Older People Using the Receipt and Health Checkup Information Database]	NDB		Nationwide		2013	2013 Clinical epidemiology, course of diseases		Diseases of the respiratory system Diseases of the digestive system	Number of Teeth, Aspiration Pneumonia	Older persons	aged 65 or older
Abe 2021	Trends in hospitalizations for asthma during the COVID-19 outbreak in Japan	MDV		Nationwide		2017	2020 COVID-19	Medical treatment status	Diseases of the respiratory system	asthma		children (aged <18 years) , adults (aged
Nagase 2020	Prevalence, disease burden, and treatment reality of patients with severe, uncontrolled asthma in Japan	JMDC		Nationwide		2014	2015 Clinical epidemiology, course of diseases	Medical treatment status	Diseases of the respiratory system	asthma	Others	>18 years) aged ≥17 years at the index date
Tomita 2020	assume in report Acid-suppressive medication as a possible risk factor for late-onset asthma	Others	data from 3 health insurance societies (MHI Co., Ltd)	Others	3 health insuranc e societies	2011	2015 Intervention effect		Diseases of the respiratory system Others	asthma, Acid-suppressive medications	Others	40-64-year-old
Yoshida 2020	Assessment of asthma severity according to treatment steps in Japanese pediatric patients: a descriptive cross-sectional study using an administrative claims database	JMDC		Nationwide	300/01/05	2009	2015 Medical treatment status		Diseases of the respiratory system	asthma	Children	aged 2-15 years old
Sanada 2020	[Relationship between weather and childhood asthma: the "Health Weather" project using weather and medical data]	JMDC		Nationwide		2015	2016 Clinical epidemiology, course of diseases		Diseases of the respiratory system	asthma	Children	aged <10 years
Sato 2019	The Prevalence, Characteristics, and Patient Burden of Severe Asthma Determined by Using a Japan Health Care Claims Database	JMDC		Nationwide		2014	2016 Clinical epidemiology, course of diseases	Patient health service utilization	Diseases of the respiratory system	asthma	Others	>15-65 years of age
Atsuta 2018	Patients with Asthma Prescribed Once-Daily Fluticasone Furoate/Vilanterol or Twice- Daily Fluticasone Propionate/Salmeterol as Maintenance Treatment: Analysis from a Claims Database	JMDC		Nationwide		2014	2015 Medical treatment status	Patient health service utilization	Diseases of the respiratory system	Asthma	Others	aged ≥15 years
Yoshida 2018	Prenatal and early-life antibiotic use and risk of childhood asthma: A retrospective cohort study	JMDC		Nationwide		2005	2014 Intervention effect		Diseases of the respiratory system Others	asthma, antibiotic use	Children	until age 6
Hamada 2015	Asthma Controller Medications for Children in Japan: Analysis of an Administrative Claims Database	JMDC		Nationwide		2008	2012 Medical treatment status		Diseases of the respiratory system	asthma	Children	aged 3 to 15 years
Nishimuta 2014	[The Factual Survey of Pediatric Asthma Treatment Using Electronic Receipt Data : Aiming for the Improvement of QOL of Both Patients and Their Parents]	JMDC		Nationwide		2005	2010 Clinical epidemiology, course of diseases	Medical treatment status	Diseases of the respiratory system	asthma	Children	pediatric asthma patients
Ishii 2020	Inhaled corticosteroid-containing regimens reduce hospitalizations and healthcare costs among elderly asthmatics: Real-world validation using the national health insurance claims database	NHI/LSEHS	NHI	Prefecture	Oita	2011	2018 Intervention effect	Health economics	Diseases of the respiratory system	asthma	Older persons	65 years of age or olde
Morishima 2013	Calmis database Physician adherence to asthma treatment guidelines in Japan: focus on inhaled corticosteroids	NHI/LSEHS	National Health Insurance and Long Life Medical Care	Prefecture	Kyoto	2009	2009 Medical treatment status	Quality of care	Diseases of the respiratory system	Asthma	Others	age ≥15 years
Sato 2020	Burden of Asthma in Elderly Japanese Patients: Using Hospital-Based Administrative	MDV	System	Nationwide		2014	2017 Clinical epidemiology, course of	Health economics	Diseases of the respiratory system	asthma or status asthmaticus (ICD-10: codes	Others	≥15 years of age
Takeuchi 2017	Claims Data Risk of Acute Asthma Attacks Associated With Nonsteroidal Anti-inflammatory Drugs: A	JMDC		Nationwide		2012	diseases 2013 Intervention effect		Diseases of the respiratory system	J45 and J46) asthma		
Hasegawa 2017	Self-Controlled Case Series Prognostic nomogram for inpatients with asthma exacerbation	DPC		Nationwide		2010	2013 Prediction model	Clinical epidemiology, course of diseases	Diseases of the respiratory system	asthma	Others	aged ≥18 years
Hirashima 2016	Effect of intravenous magnesium sulfate on mortality in patients with severe acute asthma	DPC		Nationwide		2010	2013 Intervention effect	uiseases	Diseases of the respiratory system	severe acute asthma (ICD-10 code: J46)	Others	aged ≥15 years
Inoue 2019	astimia A retrospective cohort study evaluating healthcare resource utilization in patients with asthma in Japan	JMDC		Nationwide		2009	2015 Medical treatment status	Health economics	Diseases of the respiratory system	asthma	Others	aged ≥16 years
Inoue 2021	Uncontrolled asthma: a retrospective cohort study in Japanese patients newly prescribed with medium-/high-dose ICS/LABA	JMDC		Nationwide		2009	2015 Medical treatment status	Intervention effect	Diseases of the respiratory system	uncontrolled asthma	Others	aged ≥ 12 years
Suzuki 2020	Clinical characteristics, treatment patterns, disease burden, and persistence/adherence in patients with asthma initiating inhaled triple therapy: real-world evidence from Japan	JMDC		Nationwide		2015	2017 Medical treatment status	Patient health service utilization	Diseases of the respiratory system	asthma	Others	≥15 years of age
To 2021	Real-world treatment and health care resource use among severe asthma patients in .	MDV		Nationwide		2014	2018 Clinical epidemiology, course of	Health economics	Diseases of the respiratory system	asthma		
Tomita 2019	Japan Obesity, but not metabolic syndrome, as a risk factor for late-onset asthma in Japanese women	Others	MHI Co., Ltd.	Others	three large health insuranc e	2011	diseases 2015 Clinical epidemiology, course of diseases		Diseases of the respiratory system Endocrine, nutritional and metabolic diseases	asthma, Metabolic syndrome, Obesity	Others	aged 40-64 years
Okubo 2017	Impact of pediatric obesity on acute asthma exacerbation in Japan	DPC		Nationwide	societies	2010	2015 Clinical epidemiology, course of	Health economics	Diseases of the respiratory system Endocrine, nutritional and	acute asthma exacerbation, obesity	Children	aged 3-8 years
Jo 2020	Inhaled corticosteroid withdrawal may improve outcomes in elderly patients with COPD	DPC		Nationwide		2010	diseases 2016 Intervention effect		metabolic diseases Diseases of the respiratory system	chronic obstructive pulmanary disease	Older persons	aged ≥65 years
Kitamura 2021	exacerbation: a nationwide database study [The pulmonary rehabilitation utilization rate among older people with chronic	NHI/LSEHS	medical and long-	Municipality	Kashiwa	2012	2013 Medical treatment status		Diseases of the respiratory system	COPD (ICD10: J41-J44)	Older persons	aged ≥63 years
	obstructive pulmonary disease in Japan: A retrospective study using medical and long- term care insurance claims data]		term care claims data		city in Chiba							
Goto 2019	Machine Learning-Based Prediction Models for 30-Day Readmission after Hospitalization for Chronic Obstructive Pulmonary Disease			Nationwide		2011	2016 Prediction model	Clinical epidemiology, course of diseases	Diseases of the respiratory system	COPD	Others	aged \geq 40 years
Hasegawa 2014	Factors affecting mortality following emergency admission for chronic obstructive pulmonary disease	DPC		Nationwide		2010	2013 Clinical epidemiology, course of diseases		Diseases of the respiratory system	COPD (ICD-10 codes: J41, J42, J43, J44)	Others	aged ≥40 years
Jo 2019	Reduction in exacerbation of COPD in patients of advanced age using the Japanese Kampo medicine Dai-kenchu-to: a retrospective cohort study	DPC		Nationwide		2010	2016 Intervention effect		Diseases of the respiratory system Diseases of the digestive system		Older persons	aged ≥75 years
Matsui 2017	pulmonary disease: a nationwide retrospective cohort study in Japan	DPC		Nationwide		2010	2013 Intervention effect		Diseases of the respiratory system	COPD		
	S Mortality-Reducing Effect of Rehabilitation for COPD: Observational Propensity-Matched Cohort Study Using a Nationwide Database			Nationwide		2010	2011 Intervention effect		Diseases of the respiratory system	COPD	Others	aged ≥40 years
Murata 2010	[[Recent topics in COPD treatment] Current status of COPD patients as seen from medical fee statement (health insurance claims) data]*	JMDC		Nationwide		2005	2008 Medical treatment status		Diseases of the respiratory system	COPD	Others	aged ≥40 years

Yamauchi 201	4 Paradoxical association between body mass index and in-hospital mortality in elderly patients with chronic obstructive pulmonary disease in Japan	DPC		Nationwide	2010	2013 Clinical epidemiology, course of diseases		Diseases of the respiratory system		chronic obstructive pulmonary disease	Older person	s over 65 years
Yamauchi 201	6 Mortality associated with bone fractures in COPD patients	DPC		Nationwide	2010	2013 Clinical epidemiology, course of		Diseases of the respiratory system II		COPD, bone fracture	Others	aged 40 years and older
Hidaka 2021	Identification of risk factors for mortality and delayed oral dietary intake in patients with	DPC		Nationwide	2012	diseases 2017 Clinical epidemiology, course of		C Diseases of the respiratory system	onsequences of external causes	deep neck infection		
	open drainage due to deep neck infections: A nationwide study using a Japanese					diseases						
	inpatient database											
Suzuki 2015	Factors associated with severe epiglottitis in adults: Analysis of a Japanese inpatient database	DPC		Nationwide	2011	2012 Clinical epidemiology, course of diseases		Diseases of the respiratory system		Epiglottitis (ICD-10 code: J05.1)	Others	aged 20 or older
Takeuchi 201	The burden of epiglottitis among Japanese children before the Haemophilus influenzae	DPC		Nationwide	2007	2008 Clinical epidemiology, course of		Diseases of the respiratory system		epiglottitis (J05.1)	Children	children ≤5 years old
Aso 2019	type b vaccination era: an analysis using a nationwide administrative database Systemic glucocorticoids plus cyclophosphamide for acute exacerbation of idiopathic	DPC		Nationwide	2010	diseases 2014 Intervention effect		Diseases of the respiratory system		idiopathic pulmonary fibrosis	Others	patients aged ≥15 years
	pulmonary fibrosis: a retrospective nationwide study											
Oda 2018	Respiratory comorbidities and risk of mortality in hospitalized patients with idiopathic pulmonary fibrosis	DPC		Nationwide	2010	2013 Clinical epidemiology, course of diseases		Diseases of the respiratory system		idiopathic pulmonary fibrosis		
Urushiyama	Preoperative use of pirfenidone and reduced risk of postoperative severe respiratory	DPC		Nationwide	2010	2018 Intervention effect		Diseases of the respiratory system		idiopathic pulmonary fibrosis		
2021	complications in patients with idiopathic pulmonary fibrosis: Propensity score-matched											
Aso 2018	analysis using a nationwide database in Japan Effect of cyclosporine A on mortality after acute exacerbation of idiopathic pulmonary	DPC		Nationwide	2010	2014 Intervention effect		Diseases of the respiratory system		idiopathic pulmonary fibrosis (ICD-10 codes:	Others	aged ≥15 years
ASU 2018	fibrosis	DFC		Nationwide	2010	2014 Intervention enect		Diseases of the respiratory system		J84.1, J84.8, and J84.9)	Others	aged 215 years
Dronova 2021	Cost-effectiveness of Baloxavir Marboxil compared with Laninamivir for the treatment of	Others	JammNet claims	Nationwide	2016	2017 Health economics		Diseases of the respiratory system		influenza		
	influenza in patients at high risk for complications in Japan		database (+clinical									
			trial data and literature)									
Shibata 2019	Influenza vaccination effectiveness for people aged under 65 years in Japan, 2013/2014	JMDC	interacture/	Nationwide	2013	2014 Intervention effect		Diseases of the respiratory system		influenza (ICD-10 codes J101, J110, J111, and	Others	aged under 65 years
	season: application of a doubly robust method to a large-scale, real-world dataset									J118)		
Miyashita 202	1 Risk Factors for Pneumonia and Death in Adult Patients With Seasonal Influenza and	NHI/LSEHS	SKDB	Prefecture	Shizuok 2015	2018 Prediction model	Clinical epidemiology, course of	Diseases of the respiratory system		influenza, pneumonia	Others	≥18 year of age
Skrzeczek	Establishment of Prediction Scores: A Population-Based Study Cost-effectiveness of baloxavir marboxil compared to laninamivir for the treatment of	Others	JammNet claims	Nationwide	a 2016	2017 Health economics	diseases	Diseases of the respiratory system		influenza	Others	12-64 year of age
2021	influenza in Japan		database (sourced									
			from the Phase III									
Kamada 2020	Comparison of Hospitalization Incidence in Influenza Outpatients Treated With Baloxavir	IMDC	clinical trial)	Nationwide	2018	2019 Intervention effect		Diseases of the respiratory system		Influenza	Others	aged <1 year were
Kullieda 2020	Marboxil or Neuraminidase Inhibitors: A Health Insurance Claims Database Study	JMDC		Nationwide	2010	2019 Intervention enect		Diseases of the respiratory system		mineuza	Others	excluded
Komeda 2020	Comparison of Household Transmission of Influenza Virus From Index Patients Treated	JMDC		Nationwide	2018	2019 Intervention effect		Diseases of the respiratory system		Influenza		
	With Baloxavir Marboxil or Neuraminidase Inhibitors: A Health Insurance Claims Database Study											
Sugawara	Association of severe abnormal behavior and acetaminophen with/without	NDB		Nationwide	2009	2017 Intervention effect		Diseases of the respiratory system		influenza	Children	5-19 year of age
2019	neuraminidase inhibitors											
Yokomichi	Incidence of hospitalisation for severe complications of influenza virus infection in	JMDC		Nationwide	2012	2016 Clinical epidemiology, course of diseases		Diseases of the respiratory system	liseases of the nervous system	influenza, influenza encephalitis/	Others	0-74 year of age
2019	Japanese patients between 2012 and 2016: a cross-sectional study using routinely collected administrative data					diseases				encephalopathy		
Nakamura	Severe abnormal behavior incidence after administration of neuraminidase inhibitors	NDB	NDBEMC	Nationwide	2010	2014 Intervention effect		Diseases of the respiratory system		influenza	Children	5-19years
2018	using the national database of medical claims											
Ohkusa 2018	Comparative study of preciseness in the regional variation of influenza in Japan among the National Official Sentinel Surveillance of Infectious Diseases and the National	NDB	Aggregated data: National Official	Nationwide	2010	2014 Research methodology	Socioeconomic comparison	Diseases of the respiratory system		influenza		
	Database of Electronic Medical Claims		Sentinel Surveillance									
			of Infectious									
			Diseases									
Okubo 2018	Dose-response relationship between weight status and clinical outcomes in pediatric influenza-related respiratory infections	DPC		Nationwide	2010	2015 Clinical epidemiology, course of diseases		Diseases of the respiratory system		bronchitis/pneumonia and influenza	Children	aged under 18 years
Shibata 2018	Effectiveness of influenza vaccination for children in Japan: Four-year observational	JMDC	used application for	Nationwide	2010	2014 Intervention effect		Diseases of the respiratory system		influenza (J101, J110, J111 and J118)	Children	children aged 1–15 years
	study using a large-scale claims database		an influenza									
Causanaiai 201	7 Impact of patient characteristics and treatment procedures on hospitalization cost and	MDV	vaccination subsidy	Nationwide	2014	2015 Health economics		Diseases of the respiratory system		influenza (J10.1, J11.1 and J11.8)		
STUBINSIN 201	length of stay in Japanese patients with influenza: A structural equation modelling	WDV		Nationwide	2014	2015 Health economics		Diseases of the respiratory system		minuenza (J10.1, J11.1 and J11.8)		
	approach											
Nakamura	Evaluation of estimated number of influenza patients from national sentinel surveillance	NDB	Aggregated data:	Nationwide	2012	2013 Clinical epidemiology, course of	Research methodology	Diseases of the respiratory system		influenza		
2015	using the national database of electronic medical claims		NOSSID, Prescription Surveillance			diseases						
Nakamura	[Evaluation of the estimated number of influenza patients by prefecture in pharmacy	NDB	Aggregated data:	Nationwide	2010	2013 Research methodology		Diseases of the respiratory system		influenza		
2015	surveillance using nationwide electronic medical health insurance claims]*		Pharmacy									
			Surveillance									
Nakano 2014	Spread of viral infection to family members from influenza patients treated with a neuraminidase inhibitor	JMDC		Nationwide	2010	2011 Intervention effect		Diseases of the respiratory system		influenza		
Sugawara	Real-time prescription surveillance and its application to monitoring seasonal influenza	Others	electronic records	Nationwide	2009	2011 Clinical epidemiology, course of		Diseases of the respiratory system		Influenza		
2012	activity in Japan		related to			diseases						
	2 Clinical features of infants hospitalized for 2009 pandemic influenza A (H1N1) in Japan:	DPC	prescription drugs		2009	2009 Clinical epidemiology, course of		Diseases of the respiratory system		InfluenzaA(H1N1)	Children	children 12 to 24 months
	 analysis using a national hospital discharge database 	DPC		Nationwide	2009	diseases		Diseases of the respiratory system		InfluenzaA(HINI)	Children	of age
	Impact of Body Mass Index on Activities of Daily Living in Patients with Idiopathic	JMDC	JMDC DPC database	Nationwide	2014	2018 Clinical epidemiology, course of		Diseases of the respiratory system		idiopathic interstitial pneumonia (ICD-10: code	Others	over 20 years old
	Interstitial Pneumonias					diseases				J84)		
Shirado 2020				Nationwide	2014	2018 Intervention effect		Diseases of the respiratory system		interstitial pneumonia (ICD-10 code J84)		
Shirado 2020	Effectiveness of Early Versus Delayed Physical Rehabilitation on In-Hospital Mortality in	JMDC										
Shirado 2020	Interstitial Pneumonia: A Retrospective Cohort Study	JMDC		Nationwide	2004	2016 Intervention effect		Diseases of the respiratory system	ndocrine, nutritional and	interstitial pneumonia, hyperlipidemia		
Shirado 2020 Sawabe 2020								Diseases of the respiratory system E	ndocrine, nutritional and netabolic diseases	interstitial pneumonia, hyperlipidemia		
Shirado 2020 Sawabe 2020	Interstitial Pneumonia: A Retrospective Cohort Study Assessment of statin-induced interstitial pneumonia in patients treated for									interstitial pneumonia, hyperlipidemia idiopathic interstitial pneumonias	Others	aged ≥18 years

Mizuno 2021	Indications and postoperative outcomes of surgery for laryngotracheal stenosis: A	MDV		Nationwide		2008	2016 Medical treatment status	Intervention effect	Diseases of the respiratory system	patients who underwent surgical treatments fo		
	descriptive study			Nationwide		2008	2010 Medical freatment status	mervention enect	Diseases of the respiratory system	laryngotracheal stenosis or defect		
	Mycoplasma pneumoniae Pneumonia in Japan During Large Epidemics of Macrolide-	DPC		Nationwide		2010	2013 Intervention effect		Diseases of the respiratory system	Mycoplasma pneumoniae infection	Others	aged ≥18 years
	Resistant M. pneumoniae Infections: A Nationwide Observational Study Adjunctive corticosteroid therapy for inpatients with Mycoplasma pneumoniae pneumonia	DPC		Nationwide		2010	2013 Intervention effect		Diseases of the respiratory system	Mycoplasma pneumoniae pneumonia		
	Predictive Validity of Body Mass Index Cutoff Values Used in the Global Leadership Initiative on Malnutrition Criteria for Discriminating Severe and Moderate Malnutrition	JMDC		Nationwide		2014	2018 Prediction model	Clinical epidemiology, course of diseases	Diseases of the respiratory system	pneumonia	Older persons	aged ≥65 years
Tashiro 2019	Based on In-Patients With Pneumonia in Asians [Regional medical care: Current status and future forecast of medical expenses associated with pneumonia hospitalization in Niigata Prefecture: Towards the	NHI/LSEHS		Prefecture	Niigata	2012	2016 Health economics	Health policy evaluation and utilization	Diseases of the respiratory system	pneumonia	Older persons	aged ≥75 years
	optimization of medical expenses]*							unization				
	The Impact of Patient Profiles and Procedures on Hospitalization Costs through Length of Stay in Community-Acquired Pneumonia Patients Based on a Japanese Administrative Database	DPC	QIP	Nationwide		2012	2013 Health economics		Diseases of the respiratory system	Pneumonia	Others	age ≥15 years
Kawamoto	[A comparison of the medial treatment of pneumonia in adults requiring hospitalization among 28 hospitals in the National Hospital Organization]	DPC	NHO 28 hospitals	Nationwide		2008	2008 Quality of care		Diseases of the respiratory system	Pneumonia	Others	Adults
Honda 2020	Nasogastric Tube Feeding Versus Total Parenteral Nutrition in Older Dysphagic Patients with Pneumonia: Retrospective Cohort Study	JMDC		Nationwide		2014	2017 Intervention effect		Diseases of the respiratory system	pneumonia (ICD codes: J10-18, J69)	Older persons	aged >65 years
	[Hospitalization for pneumococcal pneumonia among older adults in Fukuoka Prefecture using health insurance claims data]	NHI/LSEHS	Fukuoka Prefecture Wide-Area	Prefecture	Fukuoka	2010	2017 Medical treatment status	Health economics	Diseases of the respiratory system	pneumococcal pneumonia	Older persons	aged 75 years or older
			Association of Latter- Stage Elderly Healthcare									
		NHI/LSEHS	medical insurance	Others	A	2011	2016 Socioeconomic comparison		Diseases of the respiratory system	pneumonia	Older persons	aged 75 years or older
	hospital by route of admission and discharge for elderly people requiring nursing care who developed pneumonia)*		claims and LTC insurance claims data		municip ality in							
					Western							
Matsuda 2019	(Big data analysis of medical and nursing care: An analysis of the usage of medical and	NHI/LSEHS	medical insurance	Others	Japan A	2012	2017 Clinical epidemiology, course of	Health policy evaluation and	Diseases of the respiratory system	pneumonia	Older persons	aged 65 years or older
	nursing care services of elderly pneumonia patients using consolidated data on health insurance claims in medical and nursing care]*		claims and LTC insurance claims data	1	municip ality in Western		diseases	utilization				
					Japan							
Abe 2018	Donepezil is associated with decreased in-hospital mortality as a result of pneumonia among older patients with dementia: A retrospective cohort study	DPC		Nationwide		2010	2012 Clinical epidemiology, course of diseases	Intervention effect	Diseases of the respiratory system	pneumonia	Older persons	aged≥65 years
Kumamaru 2014	Association between hospital case volume and mortality in non-elderly pneumonia patients stratified by severity: a retrospective cohort study	DPC		Nationwide		2010	2010 Health policy evaluation and utilization		Diseases of the respiratory system Certain infectious and parasitic diseases	pneumonia	Others	aged 18–64 years
	Interrupted time-series analyses of routine vaccination program for elderly pneumonia patients in Japan; an ecological study using aggregated nationwide inpatient data	DPC	MSD Japan; the number of shipped	Nationwide	exclude tohoku	2011	2017 Clinical epidemiology, course of diseases	Health policy evaluation and utilization	Diseases of the respiratory system	pneumonia	Older persons	≥65 years of age
2021	patients in Japan, an ecological study using aggregated nationwhile impatient uata		PPSV23 syringes		three prefectu		uiseases	60128000				
Nagano 2021	Hospitalization of mild cases of community-acquired pneumonia decreased more than severe ones during the COVID-19 epidemic	DPC	QIP	Nationwide	res	2018	2020 COVID-19	Clinical epidemiology, course of diseases	Diseases of the respiratory system Certain infectious and parasitic diseases	pneumonia (during the COVID-19 pandemic)	Others	≥18 year of age
	Antibiotics for hospitalized children with community-acquired pneumonia in Japan: Analysis based on Japanese national database	NDB	Sampling data	Nationwide		2011	2014 Medical treatment status		Diseases of the respiratory system	Community-acquired pneumonia	Children	<15 year of age
	Antibiotics prescriptions for pneumonia analyzed by claim information in Japan Epidemiology and treatment outcome of pneumonia: Analysis based on Japan national	NDB NDB	Sampling data Sampling data	Nationwide Nationwide		2011 2011	2014 Medical treatment status 2014 Clinical epidemiology, course of	Quality of care	Diseases of the respiratory system Diseases of the respiratory system	community-acquired pneumonia	Others Others	aged ≥15 years aged 15 years and older
16411 2020	database	NDD	Samping data	Nationwide		2011	diseases		Diseases of the respiratory system	pileunona		aged 15 years and older
	Switching from intravenous to oral antibiotics in hospitalized patients with community- acquired pneumonia: A real-world analysis 2010-2018	MDV		Nationwide		2008	2018 Medical treatment status	Quality of care	Diseases of the respiratory system	community-acquired pneumonia	Others	≥20 years of age
		Others	CISA database (13 university hospitals)	Nationwide		2014	2015 Medical treatment status	Quality of care	Diseases of the respiratory system	Community-Acquired Pneumonia	Others	≥15 years of age
	Recent trends in practice patterns and impact of corticosteroid use on pediatric	DPC	university nospitals/	Nationwide		2010	2014 Intervention effect	Medical treatment status	Diseases of the respiratory system Certain infectious and parasitic	M. pneumoniae bronchitis and pneumonia	Children	under 18 years
	Mycoplasma pneumoniae-related respiratory infections Prediction of pneumonia hospitalization in adults using health checkup data	NHI/LSEHS	National Health	Prefecture	kyoto	2010	2015 Prediction model	Clinical epidemiology, course of	diseases Diseases of the respiratory system Certain infectious and parasitic	(A49.3, J15.7, and J20.0) pneumonia	Others	aged 40 to 74 years
			Insurance and Long- Life Medical Care Insurance					diseases	diseases			
	The economic burden of methicillin-resistant Staphylococcus aureus in community-onset pneumonia inpatients	DPC	buiditud	Nationwide		2013	2014 Clinical epidemiology, course of diseases	Health economics	Diseases of the respiratory system Certain infectious and parasitic diseases	pneumonia	Others	age 18 years or older
		DPC DPC		Nationwide	-	2010 2012	2011 Intervention effect 2013 Prediction model	Quality of care	Diseases of the respiratory system	pneumonia (ICD-10: J10– J18) pneumonia (ICD-10: J10–J18)	Others Others	aged 18 years or older
	Development of a risk-adjusted in-hospital mortality prediction model for community- acquired pneumonia: a retrospective analysis using a Japanese administrative database	UPC		Nationwide		2012	2013 Prediction model	Clinical epidemiology, course of diseases	Diseases of the respiratory system	hierwould (ICD-10: 110–118)	Uthers	aged >14 years
	Capturing the trends in hospital standardized mortality ratios for pneumonia: a retrospective observational study in Japan (2010 to 2018)	DPC	Medi-Target benchmarking project: AJHA	Nationwide		2010	2018 Clinical epidemiology, course of diseases		Diseases of the respiratory system Certain infectious and parasitic diseases	pneumonia		
	Sivelestat sodium and mortality in pneumonia patients requiring mechanical ventilation:	DPC	,	Nationwide		2012	2014 Intervention effect		Diseases of the respiratory system	pneumonia erquiring mechanical ventilation		
Kishimoto 2017	propensity score analysis of a Japanese nationwide database											
2017	propensity score analysis of a Japanese nationwide database	DPC		Nationwide		2010	2015 Clinical epidemiology, course of diseases		Diseases of the respiratory system	eonsinophilic pneumonia (J82)		
2017 Ota 2019 Tateda 2014	propensity score analysis of a Japanese nationwide database Age distribution and seasonality in acute eosinophilic pneumonia: analysis using a	DPC JMDC		Nationwide Nationwide		2010 2005 2012		Quality of care	Diseases of the respiratory system Diseases of the respiratory system Diseases of the respiratory system	eonsinophilic pneumonia (J82) pneumonia community-acquired pneumonia, antimicrobial		age categories aged over 20 years

	Association between dementia and discharge status in patients hospitalized with	DPC		Nationwide		2010	2014 Clinical epidemiology, course of		Diseases of the respiratory system		pneumonia, dimentia (F00-F03 or G30)	Older person	is aged ≥60 years
Hiyama 2018	pneumonia The three peaks in age distribution of females with pneumothorax: a nationwide	DPC		Nationwide		2010	diseases 2016 Clinical epidemiology, course of		Diseases of the respiratory system	Neurodevelopmental disorders Diseases of the genitourinary	pneumothorax or Catamenial pneumothorax		age categories
	database study in Japan						diseases			system	(ICD-10 code: J93, N948)		
manaka 2019	An analysis of factors associated with compliance and dropout of sublingual immunotherapy on Japanese cedar pollinosis patients	JMDC		Nationwide		2014	2016 Patient health service utilization		Diseases of the respiratory system		cedar pollinosis		age group
Ono 2020	Relationship Between Severe Respiratory Depression and Codeine-Containing Antitussives in Children: A Nested Case-Control Study	JMDC		Nationwide		2012	2015 Intervention effect	Clinical epidemiology, course of diseases	Diseases of the respiratory system		respiratory depression	Children	children younger than 1 years
Kido 2017	Efficacy of early sivelestat administration on acute lung injury and acute respiratory	DPC		Nationwide		2012	2012 Intervention effect		Diseases of the respiratory system		acute lung injury and acute respiratory distress	3	
Kido 2018	distress syndrome The relationship between high-dose corticosteroid treatment and mortality in acute	DPC		Nationwide		2012	2012 Intervention effect		Diseases of the respiratory system		syndrome (ICD-10 code J80) acute respiratory distress syndrome (ICD-10		
	respiratory distress syndrome: a retrospective and observational study using a nationwide administrative database in Japan										code J80)		
2019	Factors associated with severe postoperative acute respiratory failure requiring high dose corticosteroid therapy	DPC		Nationwide		2012	2013 Clinical epidemiology, course of diseases		Diseases of the respiratory system	Injury, poisoning and certain other consequences of external causes	postoperative acute respiratory failure	Others	aged ≥20 years
Kikuchi 2020	[The Prescription of Oral Antibiotics for Acute Respiratory Tract Infection in Pediatric Outpatients at Acute Diagnosis Procedure Combination Hospitals (2013-2018)]	MDV		Nationwide		2013	2018 Medical treatment status		Diseases of the respiratory system		acute respiratory tract infection	Children	aged 0 to 14 years
Yoshida 2018	Prescription of antibiotics to pre-school children from 2005 to 2014 in Japan: a retrospective claims database study	JMDC		Nationwide		2005	2014 Medical treatment status		Diseases of the respiratory system	Others	antibiotics, upper respiratory infections	Children	birth to 6 years of age
Tsuzuki 2020	Cost of inappropriate antimicrobial use for upper respiratory infection in Japan	JMDC		Nationwide		2013	2016 Health economics	Medical treatment status	Diseases of the respiratory system		upper respiratory infection	Others	under the age of 65 years
Matsuda 2018	[Big data analysis of medical and nursing care: An analysis of the current status of	NHI/LSEHS	medical insurance	Others	A	2015	2015 Medical treatment status		Diseases of the respiratory system		acute upper respiratory infection		all age groups
	antimicrobial agent use for acute upper respiratory tract inflammation using data on health insurance claims]*		claims (The National Health Insurance		municip ality in								
	numiningarante dallitaj		system and Late		Western								
			Elders' Health		Japan								
Koyama 2020	Antibiotic prescriptions for Japanese outpatients with acute respiratory tract infections (2013-2015): A retrospective Observational Study	JMDC	Insurance)	Nationwide		2013	2015 Medical treatment status		Diseases of the respiratory system		acute respiratory tract infections		age category
Muraki 2020	Impact of antimicrobial stewardship fee on prescribing for Japanese pediatric patients with upper respiratory infections	Others	IQVIA Claims	Nationwide		2017	2018 Health policy evaluation and utilization	Medical treatment status	Diseases of the respiratory system		Upper respiratory tract infection	Children	<15 year of age
Okubo 2020	National trends in appropriate antibiotics use among pediatric inpatients with	DPC		Nationwide		2010	2015 Medical treatment status		Diseases of the respiratory system		acute lower respiratory tract infections	Children	3 month-15 year of ag
Sugiyama 2020	uncomplicated lower respiratory tract infections in Japan [Prescription of Oral Antibacterial Drugs to Outpatients with Acute Respiratory Tract	MDV		Nationwide		2013	2019 Medical treatment status		Diseases of the respiratory system	diseases Certain infectious and parasitic	Acute respiratory tract infection. Acute diarrhe	a	
	Infection and Acute Diarrhea : The Survey Based on Medical Data Using MDV analyzer]								,	diseases		-	
Hashimoto 2019	Antibiotic prescription among outpatients in a prefecture of Japan, 2012-2013: a	NHI/LSEHS	national or late elders' health	Prefecture	Kumam	2012	2013 Medical treatment status		Diseases of the respiratory system		Acute respiratory tract infections, eastrointestinal infections		
	retrospective claims database study		elders' health insurance system		oto					diseases	~		
	Longitudinal trends of and factors associated with inappropriate antibiotic prescribing for non-bacterial acute respiratory tract infection in Japan: A retrospective claims database	JMDC		Nationwide		2012	2017 Medical treatment status		Diseases of the respiratory system	Certain infectious and parasitic diseases	non-bacterial acute respiratory tract infection		age groups
Teratani 2019	study, 2012-2017 Pattern of antibiotic prescriptions for outpatients with acute respiratory tract infections	IMDC		Nationwide		2013	2015 Medical treatment status		Diseases of the respiratory system		acute respiratory tract infections	Others	≤74 year of age
	in Japan, 2013-15: a retrospective observational study			Hatomide		2010					deate respiratory tract meetions	others	214 year or age
	Nationwide survey of indications for oral antimicrobial prescription for pediatric patients from 2013 to 2016 in Japan			Nationwide		2013	2016 Medical treatment status	Health policy evaluation and utilization	Diseases of the respiratory system	Certain infectious and parasitic diseases	respiratory infections	Children	≤15 year of age
Wada 2013	Practice patterns for lower respiratory tract infections in hospital patients with particular focus on bacteriological examinations and injection antibiotics use	JMDC		Nationwide		2004	2007 Medical treatment status	Quality of care	Diseases of the respiratory system		Lower respiratory tract infections	Others	aged 16 years or olde
	Complication rates after functional endoscopic sinus surgery: analysis of 50,734 Japanese patients	DPC		Nationwide		2007	2013 Intervention effect		Diseases of the respiratory system		chronic sinusitis (ICD-10 code: J32x) or nasal polyps (J33x)	Others	aged ≥16 years
Koizumi 2019	Outcomes of endoscopic sinus surgery for sinusitis-induced intracranial abscess in patients undergoing neurosurgery	DPC		Nationwide		2010	2017 Intervention effect	t	Diseases of the respiratory system	Diseases of the nervous system	sinusitis-induced intracranial abscess		
Teratani 2019	Association between rapid antigen detection tests and antibiotics for acute pharyngitis in Japan: A retrospective observational study	JMDC		Nationwide		2013	2015 Medical treatment status	Quality of care	Diseases of the respiratory system		acute pharyngitis, acute tonsillitis	Others	≤74 year of age
	Perioperative Steroid Use for Tonsillectomy and Its Association With Reoperation for	MDV		Nationwide		2008	2014 Intervention effect		Diseases of the respiratory system	Others	tonsillectomy, posttonsillectomy hemorrhage		
	Posttonsillectomy Hemorrhage: A Retrospective Cohort Study the digestive system (K00-K93)												
	Epidemiological analysis of achalasia in Japan using a large-scale claims database	JMDC		Nationwide		2005	2017 Clinical epidemiology, course of diseases	Medical treatment status	Diseases of the digestive system		achalasia		
Ishii 2019	Application of Large Electronic Medical Database for Detecting Undiagnosed Patients in	NHI/LSEHS	national medical	Municipality	Ishinom	2015	2017 Medical treatment status		Diseases of the digestive system		esophagogastric junction outflow obstruction	Others	below 60 years old
	the General Population		insurance record database		aki City						(including achalasia)		
Murata 2013	Association between hospital volume and outcomes of elderly and non-elderly patients	DPC	Gatabase	Nationwide		2008	2008 Health policy evaluation and		Diseases of the digestive system		acute biliary diseases	Others	50-74 years, aged 75
Taraaa	with acute biliary diseases: A national administrative database analysis Recombinant Human Soluble Thrombomodulin Contributes to a Reduction In-Hospital	DBC		Nationwide		2012	utilization 2018 Intervention effect		Discourse of the distortion system	Disease of the blood and blood	and abelentite with discontinuted		years or older
	Recombinant Human Soluble Informationautin Contributes to a Reduction In-Hospital Mortality of Acute Cholangitis with Disseminated Intravascular Coagulation: A Propensity Score Analyses of a Japanese Nationwide Database			Nationwide		2012	2018 Intervention effect		Diseases of the digestive system	Diseases of the blood and blood- forming organs and certain disorders involving the immune	acute cholangitis with disseminated intravascular coagulation		
										mechanism			
Murata 2011	An observational study using a national administrative database to determine the impact of hospital volume on compliance with clinical practice guidelines	DPC		Nationwide		2008	2008 Health policy evaluation and utilization	Quality of care	Diseases of the digestive system		acute cholangitis	Others	aged ≥16 years
	Impact of hospital volume on clinical outcomes of endoscopic biliary drainage for acute cholangitis based on the Japanese administrative database associated with the diagnosis accurate acarbicate acuto	DPC		Nationwide		2008	2008 Intervention effect	Health policy evaluation and utilization	Diseases of the digestive system		acute cholangitis		
Murata 2011	procedure combination system Evaluation of compliance with the Tokyo Guidelines for the management of acute	DPC		Nationwide		2008	2008 Quality of care		Diseases of the digestive system		acute cholangitis	Others	aged ≥16 years
	cholangitis based on the Japanese administrative database associated with the Diagnosis Procedure Combination system												
	Procedure Combination system [Practice Guidelines for Acute Cholecystitis and Acute Cholangitis: Administrative Data	DPC	QIP	Nationwide		2004	2009 Quality of care		Diseases of the digestive system		acute cholecystitis (K800 K801 K804 K810)		

Murata 2013	Multivariate analysis of factors influencing length of hospitalization and medical costs of cholecystectomy for acute cholecystitis in Japan: a national database analysis	DPC		Nationwide		2008	2008 Medical treatment status	Health economics	Diseases of the digestive system		acute cholecystitis		age categories
Murata 2012	The care processes for acute cholecystitis according to clinical practice guidelines based	DPC		Nationwide		2008	2008 Quality of care		Diseases of the digestive system		cholecystitis (K810)	Others	age ≥15 years
-	on the Japanese administrative database												
Murata 2012	[Preoperative antimicrobial therapy for patients with cholecystectomy for acute cholecystitis based on the administrative database associated with the Diagnosis	DPC		Nationwide		2008	2008 Medical treatment status	Intervention effect	Diseases of the digestive system		acute cholecystitis		
M	Procedure Combination system]	DPC		N		2008	2008 Clinical epidemiology, course of	Medical treatment status	Provide the second second			0.11	and details
Murata 2013	[An analysis of the current status of etiology and treatment in pediatric patients with acute pancreatitis from DPC data]*	DPC		Nationwide		2008	2008 Clinical epidemiology, course of diseases	Medical treatment status	Diseases of the digestive system		acute pancreatitis	Children	aged <15 years
Murata 2015	[Association between Hospitalization or Medical Costs and Severity of Acute Pancreatitis Based on the Diagnosis Procedure Combination Database]	DPC		Nationwide		2010	2012 Medical treatment status	Health economics	Diseases of the digestive system		acute pancreatitis		
Murata 2011	[The circumstance of antimicrobial therapy for severe acute pancreatitis in elderly	DPC		Nationwide		2008	2008 Medical treatment status		Diseases of the digestive system		acute pancreatitis	Older persons	aged 70 years and above
	patients based on the administrative database associated with the Diagnosis Procedure												
	Combination system]						AA470		the state of the s		(100)	AL	
Ikeda Kurakawa	Effects of Prophylactic Antibiotics on Length of Stay and Total Costs for Pediatric Acute Pancreatitis: A Nationwide Database Study in Japan	DPC		Nationwide		2010	2017 Intervention effect		Diseases of the digestive system		aqute pancratitis (K85)	Children	<18 year of age
Nakaharai	Early prophylactic antibiotics for severe acute pancreatitis: A population-based cohort	DPC		Nationwide		2010	2016 Intervention effect		Diseases of the digestive system		acute pancretitis	Others	≥18 years old
2018	study using a nationwide database in Japan												
Endo 2018	Impact of continuous regional arterial infusion in the treatment of acute necrotizing pancreatitis: analysis of a national administrative database	DPC		Nationwide		2010	2015 Intervention effect		Diseases of the digestive system		acute necrotizing pancreatitis (K85)	Others	aged ≥16 years
Hamada 2016	No weekend effect on outcomes of severe acute pancreatitis in Japan: data from the	DPC		Nationwide		2010	2013 Clinical epidemiology, course of	Health policy evaluation and	Diseases of the digestive system		severe acute pancreatitis (K85)	Others	aged ≥20 years
	diagnosis procedure combination database						diseases	utilization					-0
Murata 2011	A descriptive study evaluating the circumstances of medical treatment for acute	DPC		Nationwide		2008	2008 Medical treatment status	Quality of care	Diseases of the digestive system		acute pancreatitis		
	pancreatitis before publication of the new JPN guidelines based on the Japanese administrative database associated with the Diagnosis Procedure Combination system												
Taguchi 2014	administrative database associated with the Diagnosis Procedure Combination system Body mass index influences the outcome of acute pancreatitis: An analysis based on the	DPC		Nationwide		2010	2010 Clinical epidemiology, course of		Diseases of the digestive system		acute pancreatis	Others	aged ≥20 years
0 014	japanese administrative database						diseases						
Yasunaga 201	B Effect and cost of treatment for acute pancreatitis with or without gabexate mesylate: a	DPC		Nationwide		2010	2010 Intervention effect	Health economics	Diseases of the digestive system		acute pancreatis	Others	aged ≥20 years
	propensity score analysis using a nationwide administrative database Influence of co-initiation of antiulcer drugs on persistence and adherence to low-dose	JMDC		Nationwide		2005	2016 Patient health service utilization		Diseases of the digestive system	0.1	low-dose aspirin, co-initiation of antiulcer drug		
iwasawa 2020	aspirin: A retrospective cohort study using a Japanese claims database	JMDC		Nationwide		2005	2016 Patient nealth service utilization		Diseases of the digestive system	Others	low-dose aspirin, co-initiation of antiuicer drug	35	
Iwasawa 2019	Adherence to guidelines for antiulcer drug prescription in patients receiving low-dose	JMDC		Nationwide		2005	2016 Medical treatment status	Quality of care	Diseases of the digestive system	Others	antiulcer drug (low-dose aspirin therapy in	Others	≥18 year of age
	aspirin therapy in Japan										Japan)		
Hamada 2015	Severe bleeding after percutaneous transhepatic drainage of the biliary system: effect of	DPC	DPC Research Group	Nationwide		2007	2012 Intervention effect		Diseases of the digestive system		biliary disease	Others	20 years and older
	antithrombotic agentsanalysis of 34 606 cases from a Japanese nationwide administrative database												
Takeuchi 201	Descriptive epidemiology of children hospitalized for inflammatory bowel disease in	DPC		Nationwide		2007	2010 Clinical epidemiology, course of		Diseases of the digestive system		Inflammatory bowel disease	Children	≤18 years old
	Japan: Inpatient database analysis						diseases						
Hosomi 2018	An integrative approach using real-world data to identify alternative therapeutic uses of	JMDC	FAERS: adverse events, NextBio:	Nationwide		2005	2016 Research methodology		Diseases of the digestive system		inflammatory bowel disease (Crohn's disease and ulcerative colitis)		
	existing drugs		transcriptome data								and ulcerative colitis)		
Wing 2018	Incidence of catheter-related complications among Japanese patients with central	MDV	transcriptonic data	Nationwide		2008	2016 Intervention effect		Diseases of the digestive system		Short bowel syndrome		age group
	venous catheters as well as patients with short bowel syndrome												
Kobayashi 2020	Lack of Increased Risk of Lymphoma by Thiopurines or Biologics in Japanese Patients with Inflammatory Bowel Disease: A Large-Scale Administrative Database Analysis	MDV		Nationwide		2008	2018 Clinical epidemiology, course of diseases	Intervention effect	Diseases of the digestive system	Neoplasms	inflammatory bowel disease, lymphoma		
	Does mechanical bowel preparation improve quality of laparoscopic nephrectomy?	DPC		Nationwide		2008	2010 Intervention effect		Diseases of the digestive system	Diseases of the genitourinary	mechanical bowel preparation, laparoscopic		
	Propensity score-matched analysis in Japanese series									system	nephrectomy		
Fujiogi 2018	Postoperative Small Bowel Obstruction Following Laparoscopic or Open Fundoplication in	n DPC		Nationwide		2010	2016 Intervention effect		Diseases of the digestive system		postoperative small bowel obstruction	Children	aged 0–18 years
Takeyama	Children: A Retrospective Analysis Using a Nationwide Database	IMDC		Nationwide		2005	2018 Medical treatment status	Health economics	Diseases of the digestive system	consequences of external causes	Chron's disease		
2021	Association of diagnostic delay with medical cost for patients with Crohn's disease: A Japanese claims-based cohort study	JMDC		Nationwide		2005	2018 Medical treatment status	Health economics	Diseases of the digestive system		Chron's disease		
Yokoyama	A Retrospective Claims Database Study on Drug Utilization in Japanese Patients with	JMDC		Nationwide		2012	2015 Intervention effect	Medical treatment status	Diseases of the digestive system		crohn's disease (K50)		
2016	Crohn's Disease Treated with Adalimumab or Infliximab												
Murata 2020	Relationship Between the Number of Occlusal Supporting and Medical Cost: Analysis	JMDC		Nationwide		2016	2017 Health economics		Diseases of the digestive system		gingivitis or periodontal	Others	aged over 20 years
Uene 2020	Using Large Claims Database from Employee Health Care Insurance in Japan [Differences in Annual Use of Medical and dental Treatment and Cost among workers of	IHIA	lanan Health	Prefecture	Osaka	2015	2016 Health economics	Patient health service utilization	Diseases of the digestive system		dental treatment	Others	aged between 35 and 74
	Different Business Types: Data on Insured Persons Registered with the Japan Health		Insurance Association										-0
	Insurance Association Osaka Branch]		Osaka Branch										
T	Association between Number of Teeth and Medical and Dental Care Expenditure:	NDB		Nationwide		2012	2013 Health economics		Diseases of the digestive system		periodontal disease	Others	40 years of age or older
i suneisni 201	Analysis Using the Receipt and Health Checkup Information Database in Japan]	NDB		Nationwide		2012	2013 Health economics		Diseases of the digestive system		periodontal disease	Uthers	40 years of age or older
Saito 2018	Type of dental visit and number of remaining teeth in Japanese elders	NHI/LSEHS		Prefecture	Mie	2014	2014 Intervention effect		Diseases of the digestive system		remaining teeth	Older persons	75 or 80 years
Murata 2018		NHI/LSEHS		Others	A	2012	2016 Intervention effect	Medical treatment status	Diseases of the digestive system		Oral care	Older persons	Older People
	care for the elderly requiring long-term care]*		claims and LTC		municip								
			insurance claims data		ality in Western								
					Japan								
Saito 2018	[The relationship between the number of teeth and medical expenses of elderly people:	NHI/LSEHS	Dental checkup data	Prefecture	Mie	2014	2014 Health economics		Diseases of the digestive system		teeth number	Older persons	75 and 80 years old
	Based on the results of dental checkups and data on health insurance claims from the												
Yoshiuchi 201	Mie Prefecture Advanced Elderly Medical Care Interdisciplinary Association]* [Survey of dental treatment expenditures based on medical expense data of dental	NHI/LSEHS	NHI	Prefecture	Hokkaid	2007	2007 Clinical epidemiology, course of	Health economics	Diseases of the digestive system		dental status	Older nersons	aged 70 years and above
100010011 201	status and general health of the elderly in Hokkaido]			. reresture	o	2001	diseases		- Jourses of the digestive system			oraci persolla	
Nishide 2017	Income-Related Inequalities in Access to Dental Care Services in Japan	NHI/LSEHS	NHI	Municipality	Chiba	2014	2015 Patient health service utilization	Socioeconomic comparison	Diseases of the digestive system		dental care service		age categories
					City								
	The presence of teeth type using the dental notation of periodontitis patients: a cross-	NDB	Survey of Dental	Nationwide		2016	2016 Clinical epidemiology, course of	Research methodology	Diseases of the digestive system		Periodontitis	Others	aged ≥20 years
Tsuneishi 201	contional study using the receipt and health shockup information database in teres		Discasso (MHLM)										
Tsuneishi 201 Miwa 2016	sectional study using the receipt and health checkup information database in Japan] Medical cost, incidence rate, and treatment status of gastroesophageal reflux disease in	JMDC	Disease (MHLW)	Nationwide		2005	diseases 2015 Clinical epidemiology, course of	Health economics	Diseases of the digestive system		gastroesophageal reflux disease		all ages
	sectional study using the receipt and health checkup information database in Japan] Medical cost, incidence rate, and treatment status of gastroesophageal reflux disease in Japan: analysis of claims data	JMDC	Disease (MHLW)	Nationwide		2005	diseases 2015 Clinical epidemiology, course of diseases	Health economics	Diseases of the digestive system		gastroesophageal reflux disease		all ages

Murata 2015 The changing patterns of dispensing branded and generic drugs for the treatment of IMDC. Nationwide	2000	AA11 M. F. H	the data sets and sets of a	Provide the second second				
Murata 2015 The changing patterns of dispensing branded and generic drugs for the treatment of JMDC Nationwide gastroesophageal reflux disease between 2006 and 2011 in Japan: a retrospective cohort study	2006	2011 Medical treatment status	Health policy evaluation and utilization	Diseases of the digestive system		gastroesophageal reflux disease		
Miyamoto The Effect of Carbazochrome Sodium Sulfonate in Patients with Colonic Diverticular DPC Nationwide	2010	2018 Intervention effect	Health economics	Diseases of the digestive system		patients with colonic diverticular bleeding (ICI	D- Others	excluded ≤ 17 years of
2020 Bleeding: Propensity Score Matching Analyses Using a Nationwide Inpatient Database Fujimoto 2021 Decline incidence in upper gastrointestinal bleeding in several recent years: data of the JMDC Nationwide	2009	2014 Clinical epidemiology, course of		Diseases of the digestive system		10: K57.3) upper gastrointestinal bleeding	Others	age 20-74 years of age
Japan claims database of 13 million accumulated patients Miyakuni 2020 Angiography versus colonoscopy in patients with severe lower gastrointestinal bleeding: a DPC Nationwide	2010	diseases 2017 Intervention effect		Diseases of the digestive system		severe lower gastrointestinal bleeding	Others	aged ≥16 years
nation-wide observational study Miyamoto Effect of tranexamic acid in patients with colonic diverticular bleeding: A nationwide DPC Nationwide	2010	2018 Intervention effect		Diseases of the digestive system		colonic diverticular bleeding	Others	aged ≥18 years
2020 inpatient database study Moroi 2020 Efficacy of urgent colonoscopy for colonic diverticular bleeding: A propensity score- DPC Nationwide	2016	2019 Intervention effect		Diseases of the digestive system		colonic diverticular bleeding		age categories
matched analysis using a nationwide database in Japan Niikura 2015 Factors affecting in-hospital mortality in patients with lower gastrointestinal tract DPC Nationwide	2010	2012 Clinical epidemiology, course of		Diseases of the digestive system		gastrointestinal tract bleeding		
bleeding: a retrospective study using a national database in Japan Murata 2011 Equivalent clinical outcomes of bleeding peptic ulcers in teaching and non-teaching DPC Nationwide	2008	diseases 2008 Quality of care	Health policy evaluation and	Diseases of the digestive system		bleeding peptic ulcers		<u> </u>
hospitals: evidence for standardization of medical care in Japan			utilization	· · ·				
Nagata 2018 Therapeutic endoscopy-related GI bleeding and thromboembolic events in patients using DPC Nationwide warfarin or direct oral anticoagulants: results from a large nationwide database analysis	2014	2015 Intervention effect		Diseases of the digestive system	Diseases of the circulatory system	GI bleeding and thromboembolic events	Others	aged ≥20 years
Nagata 2018 [High Risk Therapeutic Endoscopy: Related Gastrointestinal Bleeding and DPC Nationwide	2014	2015 Intervention effe	ct	Diseases of the digestive system	Diseases of the circulatory system	Gastrointestinal Bleeding and Thromboemboli	ic	
Thromboembolic Events in Patients Using Warfarin or Direct Oral Anticoagulants] Kondo 2020 Follow-up Analysis after Colorectal Polypectomy on Claims Data JMDC Nationwide	2005	2017 Intervention effect		Diseases of the digestive system		events Colorectal Polypectomy	Others	age ≥40 years, <70
Imai 2021 Healthcare utilization associated with adherence to antibiotics for abdominal surgeries in DPC Nationwide	2014	2016 Quality of care	Health economics	Diseases of the digestive system		abdominal surgeries	Others	years aged 15 years and older
Japan: cross-sectional analysis of administrative database Otaka 2021 Associations between early parenteral nutrition and in-hospital outcomes in underweight DPC Nationwide	2010	2018 Intervention effect		Diseases of the digestive system		patients with gastrointestinal surgery	Others	≥18 year of age
patients with gastrointestinal surgery Tsuchiya 2019 Nationwide observational study of mortality from complicated intra-abdominal infections DPC Nationwide	2014	2016 Intervention effect		Diseases of the digestive system		complicated intra-abdominal infection	Others	≥18 year of age
and the role of bacterial cultures Abe 2021 Prevention of delayed bleeding with vonoprazan in upper gastrointestinal endoscopic DPC Nationwide	2014	2019 Intervention effect		Diseases of the digestive system		delayed bleeding, upper gastrointestinal	Others	aged ≥20 years
treatment						endoscopic treatment	Others	ageu 220 years
Shimizu 2016 [Analysis of the complications that arose in cases of digestive tract hemostasis based on DPC Nationwide diagnosis procedure combination survey data]	2006	2008 Clinical epidemiology, course of diseases	Health economics	Diseases of the digestive system		digestive tract hemostasis		
Seta 2019 Status of use of protease inhibitors for the prevention and treatment of pancreatitis after JMDC Nationwide	2005	2015 Medical treatment status	Quality of care	Diseases of the digestive system		endoscopic retrograde cholangiopancreatography		
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the								
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice gap using a health insurance claims database	2009	2014 Intervention effect		Diseases of the digestive system		upper gastrointestinal mucosal injuries	Others	aged 20-74 years
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice gap using a health insurance claims database Sugisaki 2018 A case-control study of the risk of upper gastrointestinal mucosal injuries in patients JMDC Nationwide prescribed concurrent NSAIDs and antithrombotic drugs based on data from the	2009	2014 Intervention effect		Diseases of the digestive system		upper gastrointestinal mucosal injuries	Others	aged 20-74 years
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice gap using a health insurance claims database Sugisaki 2018. A case-control study of the risk of upper gastrointestimal nuccosal injuries in patients JMDC Nationwide	2009 2010	2014 Intervention effect 2010 Intervention effe	ct	Diseases of the digestive system Diseases of the digestive system	Others	upper gastrointestinal mucosal injuries Gastrointestinal Complications, Low-dose	Others	aged 20–74 years
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice gap using a health insurance claims database Sugisaki 2018 A case-control study of the risk of upper gratrointestimal mucosal injuries in patients JMDC Nationwide prescribed concurrent NSAIDs and antithrombotic drugs based on data from the Japanese national claims database of 13 million accumulated patients Takada 2013 [Study on Risk of Gastrointestinal Complications in Low-dose Aspirin Therapy Using the NDB Nationwide National Receipt Database]	2010	2010 Intervention effe	ct	Diseases of the digestive system	Others	Gastrointestinal Complications, Low-dose Aspirin Therapy	Others	aged 20-74 years
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice gap using a health insurance claims database prescribed concurrent NSADs and antithromobici drugs based on data from the Japanese national claims database of 13 million accumulated patients Takada 2013 [Study on Risk of Gastrointestinal Complications in Low-dose Aspinin Therapy Using the National Receipt Database] Matsuda 2018 [Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients NHI/LSEHS medical insurance Others A	2010		ct		Others	Gastrointestinal Complications, Low-dose	Others	aged 20–74 years
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the view of endoscie-practice gap using a health insurance claims database Sugisaki 2018 A case-control study of the risk of upper gastrointestinal mucosal injuries in patients // MDC Nationwide prescribed concurrent NSADs and antithrombotic drugs based on data from the Japanese national claims database of 13 million accumulated patients Takada 2013 (Study on Risk of Gastrointestinal Complications in Low-dose Aspirin Therapy Using the NDB Nationwide National Receipt Database) Matsuda 2018 (Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients NHI/LSEHS medical insurance claims in medical and nursing care)*	2010 2008 nicip y in	2010 Intervention effe	ct	Diseases of the digestive system	Others	Gastrointestinal Complications, Low-dose Aspirin Therapy	Others	aged 20–74 years
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice gap using a health insurance claims database Sugisaki 2018 A case-control study of the risk of upper gastrointestimal muccoal injuries in patients JADIC Nationwide Japanese national claims database of 13 million accumulated patients Takada 2013 [Study on Risk of Gastrointestinal Complications in Low-dose Aspirin Therapy Using the National Receipt Database] Matsuda 2018 [Big data analysis of medical an ursing care: Attribute analysis of gastrostomy patients NHI/LSEHS medical insurance using data on health insurance claims in medical and nursing care; Attribute analysis of gastrostomy patients NHI/LSEHS medical insurance Using data on health insurance claims in medical and nursing care; Attribute analysis of gastrostomy patients NHI/LSEHS medical insurance Others An Using data on health insurance claims in medical and nursing care; Attribute analysis of gastrostomy patients NHI/LSEHS medical insurance NHI Attribute and nursing care; Attribute analysis of gastrostomy patients NHI/LSEHS medical insurance NHI Attribute analysis of gastrostomy patients NHI/LSEHS medical insurance NHI Attribute analysis of gastrostomy patients NHI Attribute analysis of claims and LTC munit	2010 2008 nicip y in stern	2010 Intervention effe	et	Diseases of the digestive system	Others	Gastrointestinal Complications, Low-dose Aspirin Therapy	Others	aged 20–74 years
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice gap using a health insurance claims database Sugisaki 2018 A case-control study of the risk of upper gastrointestinal mucosal injuries in patients JMDC Nationwide prescribed concurrent NSADs and antithromobic drugs based on data from the Japanesen antional claims database of 13 million accumulated patients Takada 2013 [Study on Risk of Gastrointestinal Complications in Low-dose Aspirin Therapy Using the NDB Nationmide National Receipt Database] National Receipt Database] National (Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients NH/LSEHS medical insurance claims data and LTC munic insurance claims data on health insurance claims in medical and nursing care!* Sako 2014 Prevalence and in-hospital mortality of gastrostomy and jejunostomy in Japan: a DPC Nationwide	2010 2008 nicip y in stern	2010 Intervention effe	ct Intervention effect	Diseases of the digestive system	Others	Gastrointestinal Complications, Low-dose Aspirin Therapy	Others	aged 20-74 years
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice gap using a health insurance claims database Sugisaki 2018 A case-control study of the risk of upper gastrointestinal mucosal injuries in patients JMDC Nationwide prescribed concurrent NSADDs and antithrombotic drugs based on data from the Japanese national claims database of 31 million accumulated patients Takada 2013 [Study on Risk of Gastrointestinal Complications in Low-dose Aspirin Therapy Using the NDB Nationwide Value and State and Stat	2010 2008 nicip y in stern an	2010 Intervention effe 2016 Medical treatment status		Diseases of the digestive system Diseases of the digestive system	Certain infectious and parasitic	Gastrointestinal Complications, Low-dose Aspirin Therapy gastrostomy gastrostomy and jejunostomy hepatic encephalopathy (ICD-10 codes, B18-1		aged 20-74 years
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice gap using a health insurance claims database Japanese national claims database of 13 million accumulated patients Takada 2013 [Study on Risk of Gastrointestinal Complications in Low-dose Aspirin Threnzy Using the National Receipt Database] Matsuda 2018 [Big data analysis of medical and nursing care: ¹ Matsuda 2018 [Big data analysis of medical and nursing care: ¹ Sako 2014 Prevalence and in-hospital motality of gastrostomy and jejunostomy in Japan: a Prevalence and in-hospital motality of gastrostomy and jejunostomy in Japan: a Okada 2020 Quitomes of lactulose plus branched-chain amino acid infusion and lactulose alone for hepatic encephalopathy: A retrospective cohort study using a national inpatient database	2010 2008 nicip y in stern an 2007 2011	2010 Intervention effe 2016 Medical treatment status 2010 Medical treatment status 2017 Intervention effect		Diseases of the digestive system		Gastrointestinal Complications, Low-dose Aspirin Therapy gastrostomy gastrostomy and jejunostomy hepatic encephalopathy (ICD-10 codes, B18-1 185, K70-77)	19, Others	aged ≥20 years
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the sevience-practice gap using a health insurance claims database Sugisaki 2018 A case-control study of the risk of upper gastrointestinal mucosal injuries in patients JMDC Nationwide prescribed concurrent NSADs and antithrombotic drugs based on data from the Japanese national claims database of 13 million accumulated patients Takada 2013 [Study on Risk of Gastrointestinal Complications in Low-dose Aspirin Therapy Using the NDB Nationwide Nationwide Japanese national spisol medical and nursing care: Attribute analysis of gastrostomy patients NH/LSEHS medical insurance of laims and tabase Sako 2014 Prevalence and in-hospital mortality of gastrostomy and jejunostomy in Japan: a retrospective study with a national administrative database Okcada 2020 Outcomes of Hactubes plus Branched-chin amino acid infusion and lactulose alone for DPC Nationwide	2010 2008 y in stern an 2007	2010 Intervention effe 2016 Medical treatment status 2010 Medical treatment status		Diseases of the digestive system Diseases of the digestive system Diseases of the digestive system	Certain infectious and parasitic	Gastrointestinal Complications, Low-dose Aspirin Therapy gastrostomy gastrostomy and jejunostomy hepatic encephalopathy (ICD-10 codes, B18-1		
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the sevience-practice gap using a health insurance claims database Sugisaki 2018 A case-control study of the risk of upper gastrointestinal mucosal injuries in patients /// MDC Nationwide prescribed concurrent NSADs and antithrombotic drugs based on data from the Japanese national claims database of 13 million accumulated patients Takada 2013 [Study on Risk of Gastrointestinal Complications in Low-dose Aspirin Therapy Using the National Receipt Database] Matsude 2018 [Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients Matsude 2018 [Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients Matsude 2018 [Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients Sako 2014 Prevalence and in-hospital mortality of gastrostomy and jejunostomy in Japan: a Columnos of Lacubase plus Banched-china mino acci of Invision and lactulose alone for Netada 2020 Outcomes of Iacubase plus anato-china mino acci of Invision and Iaculuse alone for Netada 2021 Outcomes of Iacubase plus Banched-china mino acci of Invision and Iaculuse alone for Without a Diverting Stoma for Colorectal Perforation: A Nationwide Deservational Study Odagri 2015 Pactor associated with perforation related to dagnostic balloon-assistic balloon-assistic balloon-sistic balloon for Study with a Diverting Stoma for Colorectal Perforation: A Nationwide Deservational Study Odagri 2015 Pactor associated with perforation related to dagnostic balloon-assistic balloon-sistic ball	2010 2008 nicip y in stern an 2007 2011	2010 Intervention effe 2016 Medical treatment status 2010 Medical treatment status 2017 Intervention effect		Diseases of the digestive system	Certain infectious and parasitic diseases	Gastrointestinal Complications, Low-dose Aspirin Therapy gastrostomy gastrostomy and jejunostomy hepatic encephalopathy (ICD-10 codes, B18-1 185, K70-77) colorectal perforation perforation related to diagnostic balloon-	19, Others	aged ≥20 years
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice gap using a health insurance claims database Sugisaki 2018 A case-control study of the risk of upper gastrointestinal mucosal injuries in patients //MDC Nationwide prescribed concurrent NSADs and antithrombotic drugs based on data from the Japanese national claims database of 13 million accurated to 13 million accurate of 13 million accurate of 13 million accurate of 13 million accurate the state of the state	2010 2008 2008 y in stern an 2007 2011 2010	2010 Intervention effe 2016 Medical treatment status 2010 Medical treatment status 2011 Intervention effect 2014 Intervention effect 2014 Intervention effect 2013 Intervention effect 2013 Intervention effect	Intervention effect	Diseases of the digestive system	Certain infectious and parasitic diseases Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other	Gastrointestinal Complications, Low-dose Aspirin Therapy gastrostomy gastrostomy and jejunostomy hepatic encephalopathy (ICD-10 codes, B18–3 185, K70–77) colorectal perforation perforation related to diagnostic balloon- assisted enteroscopy	19, Others	aged ≥20 years
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice gap using a health insurance claims database prescribed concurrent NSADDs and antithrombotic drugs based on data from the Japanese national claims database of 13 million accurate later to the second secon	2010 2008 nicip y in ster an 2007 2011 2010 2007 2012	2010 Intervention effer 2016 Medical treatment status 2010 Medical treatment status 2011 Intervention effect 2012 Intervention effect 2013 Clinical epidemiology, course of diseases 2013 Health policy evaluation and utilization	Intervention effect	Diseases of the digestive system Diseases of the digestive system	Certain infectious and parasitic diseases Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes	Gastrointestinal Complications, Low-dose Aspirin Therapy gastrostomy gastrostomy and jejunostomy hepatic encephalopathy (ICD-10 codes, B18-1 185, K70-77) colorectal perforation perforation related to diagnostic balloon- assisted entroscopy bleeding and perforation after colorectal endoscopic submucosal dissection	19, Others Others	aged ≥20 years age of 15 years or older
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice gap using a health insurance claims database Sugisaki 2018 A case-control study of the risk of upper gastrointestinal mucosal injuries in patients // MDC Nationwide prescribed concurrent NSADDs and antithrombotic drugs based on data from the Japanese national claims database of 13 million accumulated patients // MDC Nationwide National Receipt Database of 13 million accumulated patients // MDC Nationwide National Receipt Database of 13 million accumulated patients // MDC Nationwide Matsude 2018 [Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients NH/LSEHS medical insurance using data on health insurance claims in medical and nursing care! * National Receipt Database // Nationwide National Receipt Database // Nationwide // Nationwide Sako 2014 Prevalence and in-hospital mortality of gastrostomy and jejunostomy in Japan: a retrospective study with a national administrative database Nationwide Tsuchiya 2018 Mortality and Morbidity After Hartmann's Procedure Versus Primary Anastomosis Without a Diverting Stoma for Colorectal Perforation: A Nationwide Descrutional Study Odgrin 2015 Factors associated with perforation related to diagnostic balloon-assisted enteroscopy: Pactor study with a national adapting tratice database Ordegrin 2015 Hospital unmend the courcence of bleeding and perforation attra colorectal Pactor associated with perforation cellated to diagnostic balloon-assisted enteroscopy: DPC Nationwide endoscopic submucosal dissection: analysis of a national adpenderation and perforation attra colorectal Japan Japan Yoshihara M Association between prophylactic antibiolic use for transarterial chemoembolization and DPC Nationwide	2010 2008 nicip y in stern 2007 2011 2010 2007	2010 Intervention effe 2016 Medical treatment status 2010 Medical treatment status 2011 Intervention effect 2014 Intervention effect 2014 Intervention effect 2013 Intervention effect 2013 Intervention effect	Intervention effect	Diseases of the digestive system	Certain infectious and parasitic diseases Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes	Gastrointestinal Complications, Low-dose Aspirin Therapy gastrostomy gastrostomy and jejunostomy hepatic encephalopathy (ICD-10 codes, B18–3 185, K70–77) colorectal perforation perforation related to diagnostic balloon- assisted enteroscopy	19, Others Others	aged ≥20 years
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice gap using a health insurance claims database Sugisaki 2018 A case-control study of the risk of upper gastrointestinal mucosal injuries in patients //// A case-control study of the risk of upper gastrointestinal mucosal injuries in patients ////////////////////////////////////	2010 2008 nicip y in ster an 2007 2011 2010 2007 2012	2010 Intervention effe 2016 Medical treatment status 2010 Medical treatment status 2010 Intervention effect 2014 Intervention effect 2013 Clinical epidemiology, course of diseases 2014 Intervention effect 2013 Health policy evaluation and utilization 2017 Intervention effect 2018 Clinical epidemiology, course of	Intervention effect	Diseases of the digestive system Diseases of the digestive system	Certain infectious and parasitic diseases Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes	Gastrointestinal Complications, Low-dose Aspirin Therapy gastrostomy gastrostomy and jejunostomy hepatic encephalopathy (ICD-10 codes, B18-1 185, K70-77) colorectal perforation perforation related to diagnostic balloon- assisted entroscopy bleeding and perforation after colorectal endoscopic submucosal dissection	19, Others Others	aged ≥20 years age of 15 years or older
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice gap using a health insurance claims database prescribed concurrent NSADs and antithrombotic drugs based on data from the Japanese national claims database of 13 militon accurate line insurance and claims database National Receipt Database] Matsude 2018 [Big data analysis of medical and nursing care] * NDB Nationwide surged data on health insurance claims in medical and nursing care] * NDB Nationwide retrospective study with a national administrative database Okada 2020 Outcomes of lactulose plus branched-chain amino acid infusion and lactulose alone for paper in expective study with a national administrative database Okada 2020 Outcomes of lactulose plus branched-chain amino acid infusion and lactulose alone for paper in expective study with a national administrative database Okada 2020 Outcomes of lactulose plus branched-chain amino acid infusion and lactulose alone for paper in expective study with a national administrative database Odagiri 2015 Factors associated with perforation related to diagnostic balloon-assisted enteroscopy: analysis of anational inpatient database in Japan Odagiri 2015 Hospital volume and the occurrence of bleeding and perforation related to diagnostic balloon-assisted enteroscopy: analysis of anational inpatient charabase in Japan Odagiri 2015 Hospital volume and the occurrence of bleeding and perforation related to diagnostic balloon-assisted enteroscopy: analysis of anational inpatient database in Japan Odagiri 2015 Hospital volume and the occurrence of bleeding and perforation after colorectal profession between prophylacit cantibiotic use for transtrative database in Japan Yoshihara Association between prophylactic antibiotic use for transtrative database in Japan Yoshihara Prevalence of ascites and its treatment in inspitents with liver cirrhosis; A cohort study Yastuhathi Prevalence of ascites and its treatment in inspitents with liver cirrhosis; A cohort study Yastuhathi Prevalen	2010 2008 nicip y in stern 2007 2011 2010 2010 2012 2010 2012 2010 2010 2010 2012 2010	2010 Intervention effer 2016 Medical treatment status 2010 Medical treatment status 2011 Intervention effect 2013 Clinical epidemiology, course of diseases 2013 Health policy evaluation and utilization 2017 Intervention effect	Intervention effect Intervention effect Medical treatment status Clinical epidemiology, course of	Diseases of the digestive system	Certain infectious and parasitic diseases Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes	Gastrointestinal Complications, Low-dose Aspirin Therapy gastroatomy gastroatomy depatic encephalopathy (ICD-10 codes, B18-1 (BS, K70-77) colorectal perforation perforation related to diagnostic balloon- assisted entroacopy bleeding and perforation after colorectal endoscopic submucosal dissection liver abscess, transarterial chemoembolization	9, Others Others	aged ≥20 years age of 15 years or older ≥18 year of age
endoscopic retrograde cholangiopancreatography: An epidemicologic analysis of the evidence-practice gap using a health insurgraphy: An epidemicologic analysis of the prescribed concurrent NSADD and antihtrombotic drugs based on data from the Japanesen antional claims database of 13 million accurate Might and Might	2010 2008 nicip y in stern 2007 2011 2010 2010 2012 2010 2010 2010	2010 Intervention effet 2016 Medical treatment status 2010 Medical treatment status 2011 Intervention effect 2013 Clinical epidemiology, course of diseases 2014 Intervention effect 2013 Clinical epidemiology, course of diseases 2017 Intervention effect	Intervention effect Intervention effect Medical treatment status	Diseases of the digestive system	Certain infectious and parasitic diseases Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Others	Gastrointestinal Complications, Low-dose Aspirin Therapy gastrostomy gastrostomy hepatic encephalopathy (ICD-10 codes, B18-1 185, KT0-77) colorectal perforation perforation related to diagnostic balloon- assisted entroscopy bleeding and perforation after colorectal endoscopic submucosal dissection liver abscess, transarterial chemoembolization liver cirrhosis (KT0-T4), ascites	9, Others Others	aged ≥20 years age of 15 years or older ≥18 year of age
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice app using a health insurance claims database JMDC Nationwide prescribed concurrent NSADS and antithrombotic drugs based on data from the Japanesen national claims database of 13 million accurate National Receipt Database] Matsuda 2013 [Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients Nutional Receipt Database] Matsuda 2018 [Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients Nutional Receipt Database] Matsuda 2018 [Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients Nutional Receipt Database] Matsuda 2018 [Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients using data on health insurance claims in medical and nursing care? Matsuda retrospective study with a national administrative database Outcomes of Inculsee plus branched-chain amino acid infusion and lactulose alone for Notacomes of Lactone equipation of the retrospective cohort study using a national inpatient database Tsuchys 2018 Mortality and Morbitity After Hartmann's Procedure Versus Primary Anastomosis Ordagiri 2015 Hospital mortality of colorectal Perforation: A hational do Dec Nationwide without a Diverting Stoma for Colorectal Perforation: Rational inpatient database Tsuchys 2018 Mortality and Morbitity After Hartman's Procedure Versus Primary Anastomosis analysis of a national inpatient database in Japan Yoshihara A sociation but perforation: related to diagnostis ballom-assisted enteroscopy: Prevalence of automa linguitient database in Japan Yoshihara A sociation but perforation: related to diagnostisted interoscopy: Prevalence of acids and its treated to database of the page and perforation after colorectal Prevalence of acids and the performent in inpatient with liver cirrhosis: A cohort study Yastuhashi Real-world hospital mortality of tiver cirrhosis: A cohort study Yastuhashi Rea	2010 nicip 2008 y in stern 2007 2011 2010 2010 2010 2010 2010 2010 2010 2010 2010	2010 Intervention effe 2016 Medical treatment status 2010 Medical treatment status 2011 Intervention effect 2012 Clinical epidemiology, course of diseases 2013 Intervention effect 2013 Health policy evaluation and utilization 2011 Intervention effect 2012 Intervention effect 2013 Intervention effect 2014 Intervention effect 2015 Clinical epidemiology, course of diseases 2012 Prediction model 2018 Clinical epidemiology, course of diseases	Intervention effect Intervention effect Medical treatment status Clinical epidemiology, course of diseases	Diseases of the digestive system Diseases of the digestive system	Certain infectious and parasitic diseases Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Others	Gastrointestinal Complications, Low-dose Aspirin Therapy gastrostomy gastrostomy and jejunostomy hepatic encephalopathy (ICD-10 codes, B18-1 185, K70-77) colorectal perforation perforation related to diagnostic balloon- assisted entrecocop bleeding and perforation after colorectal endoscopic submucosal dissection liver abscess, transarterial chemoembolization liver cirrhosis (K70-74), ascites cirrhotic	9, Others Others Others Others Others	aged ≥20 years age of 15 years or older ≥18 year of age aged ≥20 years aged ≥20 years
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice age using a health insurance claims database JADC Nationwide prescribed concurrent NSADS and antithrombotic drugs based on data from the Japanese national claims database of 31 million accurate laims database Takada 2013 [Study on Risk of Gastrointestinal Complications in Low-dose Aspirin Therapy Using the National Receipt Database] Matsuda 2018 [Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients Matsuda 2018 [Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients using data on health insurance claims in medical and nursing care? Matsuda 2018 [Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients retrospective study with a national administrative database Outcomes of Inculses plus branched-chain amino acid infusion and lactulose alone for Notaces 2014 Prevalence and in-hospital mortality of gastrostomy and jejunostomy in Japan: a retrospective study with a national administrative database Outcomes of Inculses plus branched-chain amino acid infusion and lactulose alone for Notaces 2014 Outcomes of Inculse plus branched-chain amino acid infusion and lactulose alone for Oddagri 2015 Factors associated with perforation: A Nationwide Observational Study Oddagri 2015 Factors associated with perforation related to diagnostic ballioon-assisted enteroscopy: PC Nationwide analysis of a national inpatient database in Japan Yoshihara A Resolation between prophylactic antibiotic use for transarterial chemoembolization and DPC Nationwide 2021 eccurrence of liver absess: a retrospective cohort study Yastunkahi Real-world hospital mottent in inpatient with liver cirhosis: A cohort study Yastunkahi Real-world hospital mottent in inpatient with liver cirhosis: A cohort study Yastunkahi Real-world hospital mottent in inpatient with liver cirhosis: A cohort study Yastunkahi Real-world hospital mottent in inpatient with liver	2010 A 2008 A 2007 2011 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2011 2011 2011 2011 2017 2011 2017 2017	2010 Intervention effer 2016 Medical treatment status 2010 Medical treatment status 2011 Intervention effect 2012 Intervention effect 2013 Clinical epidemiology, course of diseases 2014 Intervention effect 2013 Clinical epidemiology, course of diseases 2017 Intervention effect 2017 Intervention effect 2018 Clinical epidemiology, course of diseases 2012 Prediction model 2018 Clinical epidemiology, course of diseases	Intervention effect Intervention effect Medical treatment status Clinical epidemiology, course of diseases	Diseases of the digestive system Diseases of the digestive system	Certain infectious and parasitic diseases Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Others Certain infectious and parasitic	Gastrointestinal Complications, Low-dose Aspirin Therapy gastrostomy gastrostomy hepatic encephalopathy (ICD-10 codes, B18-1 185, K70-77) colorectal perforation perforation related to diagnostic balloon- assisted enteroscopy beleeding and perforation after colorectal endoscopic submousal dissection liver abscess, transarterial chemoembolization liver cirrhosis (K70-74), ascites cirrhotic	19, Others Others n Others Others	aged ≥20 years age of 15 years or older ≥18 year of age aged ≥20 years
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice gap using a health insurance claims database prescribed concurrent NSADDs and antithrombotic drugs based on data from the Japanese national claims database of 31 million accurate light in the second matching of the risk of a concurrent NSADDs and antithrombotic drugs based on data from the Japanese national claims database of 31 million accurate light in the second matching of the risk of database of 31 million accurate of 31	2010 nicip 2008 y in star an 2007 2011 2010 2010 2010 2010 2010 2010 2010 2011 uman 2007	2010 Intervention effe 2016 Medical treatment status 2010 Medical treatment status 2011 Intervention effect 2012 Clinical epidemiology, course of diseases 2013 Intervention effect 2013 Health policy evaluation and utilization 2011 Intervention effect 2012 Intervention effect 2013 Intervention effect 2014 Intervention effect 2015 Clinical epidemiology, course of diseases 2012 Prediction model 2018 Clinical epidemiology, course of diseases	Intervention effect Intervention effect Medical treatment status Clinical epidemiology, course of diseases	Diseases of the digestive system Diseases of the digestive system	Certain infectious and parasitic diseases Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Others Certain infectious and parasitic	Gastrointestinal Complications, Low-dose Aspirin Therapy gastrostomy gastrostomy and jejunostomy hepatic encephalopathy (ICD-10 codes, B18-1 185, K70-77) colorectal perforation perforation related to diagnostic balloon- assisted entrecocop bleeding and perforation after colorectal endoscopic submucosal dissection liver abscess, transarterial chemoembolization liver cirrhosis (K70-74), ascites cirrhotic	9, Others Others Others Others Others	aged ≥20 years age of 15 years or older ≥18 year of age aged ≥20 years aged ≥20 years
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice app using a health insurance claims database prescribed concurrent NSADS and antithrombotic drugs based on data from the Japanese national claims database of 31 million accumulated patients Takada 2013 [Study on Risk of Gastrointestinal Complications in Low-dose Aspirin Therapy Using the National Receipt Database] Matsuda 2018 [Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients Matsuda 2018 [Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients Matsuda 2018 [Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients within the patient of the state state with the state of the state of the state of the state state of the state of the state of the state of the state state state state in inpatient state states in inpa	2010 neip 2008 sim - 2007 2017 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010	2010 Intervention effe 2016 Medical treatment status 2010 Medical treatment status 2011 Intervention effect 2012 Clinical epidemiology, course of diseases 2013 Intervention effect 2013 Health policy evaluation and utilization 2011 Intervention effect 2012 Intervention effect 2013 Intervention effect 2014 Intervention effect 2015 Clinical epidemiology, course of diseases 2012 Prediction model 2018 Clinical epidemiology, course of diseases	Intervention effect Intervention effect Medical treatment status Clinical epidemiology, course of diseases	Diseases of the digestive system Diseases of the digestive system	Certain infectious and parasitic diseases Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Others Certain infectious and parasitic	Gastrointestinal Complications, Low-dose Aspirin Therapy gastrostomy gastrostomy and jejunostomy hepatic encephalopathy (ICD-10 codes, B18-1 185, K70-77) colorectal perforation perforation related to diagnostic balloon- assisted entrecocop bleeding and perforation after colorectal endoscopic submucosal dissection liver abscess, transarterial chemoembolization liver cirrhosis (K70-74), ascites cirrhotic	9, Others Others Others Others Others	aged ≥20 years age of 15 years or older ≥18 year of age aged ≥20 years aged ≥20 years
endoscopic retrograde chalangiopancreatography: An epidemiologic analysis of the evidence-practice gap using a health insurance claims database Sugliank 2013 A case-control study of the risk of upper gastrointestinal mucosal injuries in patients //// Japanese national claims database of 33 million accumulated patients ////////////////////////////////////	2010 neip 2008 sim - 2007 2017 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010	2010 Intervention effe 2016 Medical treatment status 2010 Medical treatment status 2011 Intervention effect 2012 Clinical epidemiology, course of diseases 2013 Intervention effect 2013 Health policy evaluation and utilization 2011 Intervention effect 2012 Intervention effect 2013 Intervention effect 2014 Intervention effect 2015 Clinical epidemiology, course of diseases 2012 Prediction model 2018 Clinical epidemiology, course of diseases	Intervention effect Intervention effect Medical treatment status Clinical epidemiology, course of diseases	Diseases of the digestive system Diseases of the digestive system	Certain infectious and parasitic diseases Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Others Certain infectious and parasitic diseases	Gastrointestinal Complications, Low-dose Aspirin Therapy gastrostomy gastrostomy and jejunostomy hepatic encephalopathy (ICD-10 codes, B18-1 185, K70-77) colorectal perforation perforation related to diagnostic balloon- assisted entrecocop bleeding and perforation after colorectal endoscopic submucosal dissection liver abscess, transarterial chemoembolization liver cirrhosis (K70-74), ascites cirrhotic	9, Others Others Others Others Others	aged ≥20 years age of 15 years or older ≥18 year of age aged ≥20 years aged ≥20 years 18 years old or older
endoscopic retrograde cholangiopancreatography: An epidemiologic analysis of the evidence-practice app using a health insurance claims database prescribed concurrent NSADS and antithrombotic drugs based on data from the Japanese national claims database of 31 million accumulated patients Takada 2013. [Study on Risk of Gastrointestinal Complications in Low-dose Aspirin Therapy Using the NIII Study on Risk of Gastrointestinal Complications in Low-dose Aspirin Therapy Using the National Record Database] Matsuda 2018. [Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients Matsuda 2018. [Big data analysis of medical and nursing care: Attribute analysis of gastrostomy patients retrospective study with a national administrative database Okada 2020. Outcomes of Laculuse plus banchad-chain amino acid infusion and laculuse alone for hepatic encephalopathy: A retrospective cohort study using a national inpatient database Tuuchiya 2018. Mortality and Morbidity After Hartman's Procedure Versus Primary Anastomosis Obdadi 2015. Factors associated with perforation related to diagnostic balloon-assisted enteroscopy: Def Austomaide analysis of a national langent database in Japan. Tuuchiya 2018. Mortality and Marbidity After Hartman's Procedure Versus Primary Anastomosis Obdard 2015. Factors associated with perforation related to diagnostic balloon-assisted enteroscopy: DPC Nationwide endoscopic submucosal disection: analysis of a national administrative database in Japan. Tuuchiya 2018. Mortality and Marbidity After Hartman's Procedure Versus Primary Anastomosis DPC Nationwide endoscopic submucosal disection: analysis of a national administrative database in Japan. Yatshubath Perset and the occurrence of bleeding and perforation related to diagnostic balloon and perforation related to diagnostic balloon atting to cirrhosis. A cohort study Yatsubashi Prevalence of sizet and its treatment in inpatients with liver cirrhosis. A cohort study Yatsubhashi Prevalence of sizet and its treatment i	2010 hicip yin stern 2007 2011 2010 2010 2010 2010 2010 2010	2010 Intervention effet 2016 Medical treatment status 2010 Medical treatment status 2011 Intervention effect 2012 Intervention effect 2013 Clinical epidemiology, course of diseases 2017 Intervention effect 2018 Clinical epidemiology, course of diseases 2019 Intervention effect 2011 Intervention effect 2012 Prediction model 2013 Clinical epidemiology, course of diseases 2012 Prediction model 2018 Clinical epidemiology, course of diseases 2012 Research methodology	Intervention effect Intervention effect Medical treatment status Clinical epidemiology, course of diseases	Diseases of the digestive system Diseases of the digestive system	Certain infectious and parasitic diseases Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Others Certain infectious and parasitic diseases	Gastrointestinal Complications, Low-dose Aspirin Therapy gastrostomy gastrostomy hepatic encephalopathy (ICD-10 codes, B18-1 B5, K70-77) colorectal perforation perforation related to diagnostic balloon- assisted entroscopy bleeding and perforation after colorectal endoscopic submucosal dissection liver abscess, transarterial chemoembolization liver abscess, transarterial chemoembolization liver cirrhosis (K70-74), ascites cirrhotic liver cirrhosis Drug-induced liver injury	9, Others Others Others Others Others	aged ≥20 years age of 15 years or older ≥18 year of age aged ≥20 years aged ≥20 years
endoscopic retrograde chalangiopancreatography: An epidemiologic analysis of the evidence-practice gap using a health insurance claims database Sugisaki 2013 A case-control study of the risk of upper gastrointestinal mucosal injuries in patients //// Japanese national claims database of 13 million accumulated patients ////////////////////////////////////	2010 hicip yin stern 2007 2011 2010 2010 2010 2010 2010 2010	2010 Intervention effet 2016 Medical treatment status 2010 Medical treatment status 2011 Intervention effect 2012 Intervention effect 2013 Clinical epidemiology, course of diseases 2017 Intervention effect 2018 Clinical epidemiology, course of diseases 2019 Intervention effect 2011 Intervention effect 2012 Prediction model 2013 Clinical epidemiology, course of diseases 2012 Prediction model 2018 Clinical epidemiology, course of diseases 2012 Research methodology	Intervention effect Intervention effect Medical treatment status Clinical epidemiology, course of diseases	Diseases of the digestive system Diseases of the digestive system	Certain infectious and parasitic diseases Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Others Certain infectious and parasitic diseases	Gastrointestinal Complications, Low-dose Aspirin Therapy gastroatomy gastroatomy gastroatomy and jejunostomy hepatic encephalopathy (ICD-10 codes, B18-1 jes, K70-77) colorectal perforation perforation related to diagnostic balloon- assisted entreoscop bleeding and perforation after colorectal endoscopic submucosal dissection liver abscess, transarterial chemoembolization liver cirrhosis (K70-74), ascites cirrhotic liver cirrhosis (K70-74), ascites cirrhotic liver cirrhosis Drug-induced liver injury	9, Others Others Others Others Others	aged ≥20 years age of 15 years or older ≥18 year of age aged ≥20 years aged ≥20 years 18 years old or older

Image: Note: Not														
Name Name </td <td></td> <td>liver disease (NAFLD) and nonalcoholic steatohepatitis (NASH) in the Japan medical</td> <td>MDV</td> <td></td> <td>Nationwide</td> <td>20</td> <td>011</td> <td></td> <td>Health economics</td> <td>Diseases of the digestive system</td> <td></td> <td></td> <td>Others</td> <td>aged ≥18 years</td>		liver disease (NAFLD) and nonalcoholic steatohepatitis (NASH) in the Japan medical	MDV		Nationwide	20	011		Health economics	Diseases of the digestive system			Others	aged ≥18 years
Name Answer of the sector Answer of the sector <td>Takiguchi 2020</td> <td>Vasodilator Therapy and Mortality in Nonocclusive Mesenteric Ischemia: A Nationwide</td> <td>DPC</td> <td></td> <td>Nationwide</td> <td>20</td> <td>010</td> <td>2018 Intervention effect</td> <td></td> <td>Diseases of the digestive system</td> <td></td> <td>Nonocclusive Mesenteric Ischemia (K550)</td> <td></td> <td></td>	Takiguchi 2020	Vasodilator Therapy and Mortality in Nonocclusive Mesenteric Ischemia: A Nationwide	DPC		Nationwide	20	010	2018 Intervention effect		Diseases of the digestive system		Nonocclusive Mesenteric Ischemia (K550)		
Number Num Num Number Number Num Number Number Number Number N	Yoshioka 2014	Impact of hospital volume on hospital mortality, length of stay and total costs after	DPC		Nationwide	20	007			Diseases of the digestive system		Pancreaticoduodenectomy		
Description Description Processing Description Processing Description Processing Description Description <	Hayashi 2020	Clinical Effect of the Acrylonitrile-Co-Methallyl Sulfonate Surface-Treated Membrane as	DPC		Nationwide	20	014			Diseases of the digestive system	Certain infectious and parasitic	sepsis due to panperitonitis	Others	≥18 year of age
Markade description of any second		Cohort Study									diseases			
main main </td <td></td> <td></td> <td>DPC</td> <td></td> <td>Nationwide</td> <td>20</td> <td>010</td> <td>2016 Intervention effect</td> <td></td> <td>Diseases of the digestive system</td> <td></td> <td>primary inguinal hernia</td> <td>Children</td> <td>aged 7 days to 15 years</td>			DPC		Nationwide	20	010	2016 Intervention effect		Diseases of the digestive system		primary inguinal hernia	Children	aged 7 days to 15 years
Markade Markade <t< td=""><td>Nakashima</td><td>Laparoscopic versus open repair for inguinal hernia in children: a retrospective cohort</td><td>JMDC</td><td></td><td>Nationwide</td><td>20</td><td>005</td><td>2017 Intervention effect</td><td></td><td>Diseases of the digestive system</td><td></td><td>primary inguinal hernia</td><td>Children</td><td>younger than 15 years old</td></t<>	Nakashima	Laparoscopic versus open repair for inguinal hernia in children: a retrospective cohort	JMDC		Nationwide	20	005	2017 Intervention effect		Diseases of the digestive system		primary inguinal hernia	Children	younger than 15 years old
Name Name <th< td=""><td></td><td></td><td>DPC</td><td>QIP</td><td>Nationwide</td><td>20</td><td>010</td><td>2016 Intervention effect</td><td></td><td>Diseases of the digestive system</td><td></td><td>perforated gastric/duodenal ulcers</td><td></td><td></td></th<>			DPC	QIP	Nationwide	20	010	2016 Intervention effect		Diseases of the digestive system		perforated gastric/duodenal ulcers		
Main <	Hern 2020	Cost-Effectiveness Analysis of Vedolizumab Compared with Other Biologics in Anti-TNF-	JMDC	literature review and network meta-	Nationwide	20	018	2018 Health economics		Diseases of the digestive system		Ulcerative Colitis		
Main Main </td <td>Okayasu 2019</td> <td></td> <td>JMDC</td> <td>anaryana</td> <td>Nationwide</td> <td>20</td> <td>008</td> <td>2014 Medical treatment status</td> <td>Quality of care</td> <td>Diseases of the digestive system</td> <td></td> <td>ulcerative colitis (ICD-10 code: K51)</td> <td></td> <td></td>	Okayasu 2019		JMDC	anaryana	Nationwide	20	008	2014 Medical treatment status	Quality of care	Diseases of the digestive system		ulcerative colitis (ICD-10 code: K51)		
Main Main		The clinical practice of ulcerative colitis in elderly patients: An investigation using a	DPC		Nationwide	20	012	2018 Medical treatment status		Diseases of the digestive system		Ulcerative colitis		
Marcian Los Marcines de Analys Control at anyone de la serie de la	Kobayashi	Impact of immunomodulator use on treatment persistence in patients with ulcerative	JMDC		Nationwide	20	010	2016 Intervention effect		Diseases of the digestive system		ulcerative colitis (K51)	Others	aged ≥18 years
And and a constraints of a proper series of a p	Matsuoka	Trends in Corticosteroid Prescriptions for Ulcerative Colitis and Factors Associated with	JMDC		Nationwide	20	006	2016 Medical treatment status	Quality of care	Diseases of the digestive system		Ulcerative Colitis		
Oline Jack Advancement on Jack and and Gram (and an Jack and and Gram (and and and and and and and and and and														
			JMDC		Nationwide	20	09		Health economics	Diseases of the digestive system		Ulcerative Colitis		
General Materian Systems for Adapting Datases Marked Systems For Adapting Datas	Sato 2015	Variceal hemorrhage: Analysis of 9987 cases from a Japanese nationwide database	DPC		Nationwide	20	007			Diseases of the digestive system	Diseases of the circulatory system	variceal hemorrhage		
Image: Image:	12) Diseases of	the skin and subcutaneous tissue (L00-L99)												
Application of the second of the se			JMDC		Nationwide	20	010	2011 Medical treatment status	Health economics	Diseases of the skin and		atopic dermatitis	Children	aged <15 years
Image Name 2 mark Image Name 2 mark Image Name 2 mark Mark Name 2 mark Name 2 mark Mark Name 2 mark Name 2 mark Mark Namark Mark Namark										subcutaneous tissue				
Bit Note Note Note Note Note Note Note Not			JMDC		Nationwide	20	010	2011 Medical treatment status	Health economics	Diseases of the skin and		atopic dermatitis	Children	aged 0–14 years
												-		
Space 2000 Control Sum All Procession of a Quebook (Unique powers Method Procession (Unique			JMDC		Nationwide	20	013	2016 Medical treatment status	Health economics			atopic dermatitis	Others	15-60 year of age
Band Second Parkanel Monton Park	Sugimoto 2018	Contact Dermatitis after Prescription of an Ophthalmic Ointment Containing Fradiomycin	Others	MinaCare HDB	Nationwide	20	013	2013 Intervention effect		Diseases of the skin and		contact dermatitis		age group
Spansing Particular Particular Universe Particular Univ	Terui 2018	[Analysis of Real World Data on Epidemiological Characteristics of Hidradenitis	JMDC		Nationwide	20	015	2016 Clinical epidemiology, course of	Medical treatment status	Diseases of the skin and		hidradenitis suppurativa	Others	aged 15–64 years
Relative Article Articl			NDR		Mationuida	20	112					humataatii aasaa as kalaida		
<form> Bit Series description of the series of the s</form>			NDB		Nationwide	20	113	2015 Intervention effect				hypertrophic scars or kelolds		
Japace attain appresentanceJapace attain appresentanceJapace attain appresentanceJapace attain appresentanceJapace attain appresentanceJapace attain appresentanceJapace attain 														
Mapped 202 Teaching hatmap defaultion in galanging lattice multions MODE Mapped 202 Teal mapped defaultions Descent of team defaultion defaultions Descent of team def	Kubota 2015		NDB		Nationwide	20	010					psoriasis and palmoplantar pustulosis		age group
a plant Januar Adam data band pand pand pand pand pand pand pand p	Miyazaki 2020		JMDC		Nationwide	20	011		Health economics			Palmoplantar pustulosis (PPP)	Others	age ≥18 vears
2020 respective concernance and concernance discussion beneficiant or and segment devices of the		patients in Japan: A claims database study								subcutaneous tissue				
	0		DPC		Nationwide	20	014					pressure injury	Older persons	aged 65 years or older
jane jane <td< td=""><td></td><td></td><td>IMDC</td><td></td><td>Nationwide</td><td>20</td><td>009</td><td></td><td></td><td></td><td></td><td>psoriasis (140)</td><td></td><td></td></td<>			IMDC		Nationwide	20	009					psoriasis (140)		
https:// aligned database analysis htps:// aligned database htps://			50000		Hationinae							portano (E-ro)		
Tarul 2014 [A survey of the status of pointsis conducted using information driving May of Learning May of Learni	Inui 2021		MDV		Nationwide	20	009	2017 Medical treatment status	Health economics					
Making 2015 [Identifying the Plattern of Physician Consultation for Skin Diseases in Kumanon on Prefecture, from the National Health Insurance Claims, during May of 2009] NHI/LSEN NH Prefecture Yumanon 2009 Patient health Insurance Claims, during May of 2009] Solice consultation of Skin Diseases of the skin and subcultaneous tissue Solice consultation for Skin Diseases of the skin and subcultaneous tissue Solice consultation of Skin Diseases of the skin and subcultaneous tissue Solice consultation for Skin Diseases of the skin and subcultaneous tissue Solice consultation of Skin Diseases of the skin and subcultaneous tissue Solice consultation of Skin Diseases of the skin and subcultaneous tissue Solice consultation of Skin Diseases of the skin and subcultaneous tissue Solice consultation of Skin Diseases of the skin and subcultaneous tissue Solice consultation of Skin Diseases of the skin and subcultaneous tissue Solice consultation of Skin Diseases of the skin and subcultaneous tissue Solice consultation of Skin Diseases of the skin and subcultaneous tissue Solice consultation of Skin Diseases of the skin and subcultaneous tissue Solice consultation of Skin Diseases of the skin and subcultaneous tissue Solice consultation of Skin Diseases of the skin and subcultaneous tissue Solice consultation of Skin Diseases of the skin and subcultaneous tissue Solice consultation of Skin Diseases of the skin and subcultaneous tissue Solice consultation of Skin Diseases of the skin and subcultaneous tissue Solice consultation of Skin Diseases of the skin and subcultaneous tissue Solice consultation of Skin Di		[A survey of the status of psoriasis conducted using information obtained from health	JMDC		Nationwide	20	011		Medical treatment status	Diseases of the skin and				
Sabe 200 Real-word whence of population differences in allopurion-lended severe cutaneous MDC Nationwide Twinn 200 100 Intervention effect Bisass of the winn of the winney of	Makino 2015	[Identifying the Pattern of Physician Consultation for Skin Diseases in Kumamoto	NHI/LSEHS	NHI	Prefecture		009		Socioeconomic comparison	Diseases of the skin and		Skin diseases		
a deverse reactions in East Asians: A population-based cohort study South South disease subdutaneous issue reactions Full A deverse reactions in East Asians: A population-based cohort study MDC Nationwide 2005 2017 Intervention effect Disease of the skin and anticonvulsant-induced Stevens-Johnson 2012 anticonvulsant: in a Jaganese population: Matched case-control and cohort studies subdutaneous issue			IMDC		Nationwide		105	2016 Intervention officet	Clinical enidemiology, course of			allopringl-related severe outprogue advance		
Fukasama Risk of Stevens-Johnson syndrome and toxic epidermal necrolysis associated with m JMDC Nationwide 2001 Diseases Diseases of the skin and subtrateneous tisue anticonvulsant-induced Stevens-Johnson 2021 anticonvulsants in a Jaganese population: Matched case-control and cohort studies subtrateneous tisue subtrateneous tisue subtrateneous tisue subtrateneous tisue subtrateneous tisue subtrateneous tisue searce se			JWDG		. racio i Wide	South Korea,		2010 Intervention dilett						
Morita 2019 Association of Early Systemic Corticosteroid Therapy with Mortality in Patients with A for Early Systemic Corticosteroid Therapy with Mortality in Patients with Mortality Patient Patients with Mortality in Patients with Mortality in			JMDC		Nationwide		005	2017 Intervention effect						
Stevens-Johnson Syndhome or Toxic Epideman Necrolysis: A Retrospective Cohort Study necrolysis: A Retrospective Cohort Study necrolysis: (CD-10 codes L511-L512) Using a Nationwide Claims Database necrolysis: (CD-10 codes L511-L512) necrolysis: (CD-10 codes L511-L512) Diseases of the musculos/elatine Stateman Necrolysis: A Retrospective Cohort Study Necrolysis: (CD-10 codes L511-L512) necrolysis: (CD-10 codes L511-L512) Diseases of the musculos/elatine Stateman Necrolysis: A Retrospective Cohort Study Necrolysis: (CD-10 codes L511-L512) necrolysis: (CD-10 codes L511-L512) State 2018 Applic demographic risk factor for surgical site infection after antior cruciate ligament reconstruction Network of the state			DPC		Nationwide	ne	010	2014 Intervention effect					Others	aged >18 years
13) Diseases of the musculoskeletal system and connective tissue (M00-M99) 13) Diseases of the musculoskeletal system and connective tissue (M00-M99) Kawata 2018 Atopic dermatitis is a novel demographic risk tactor for surgical site infection after anterior cruciate ligament reconstruction DPC Nationwide 2010 2015 Clinical epidemiology, course of diseases Diseases of the musculoskeletal Injury, poisoning and certain ofter anterior cruciate ligament reconstruction, system and connective tissue anterior cruciate ligament reconstruction, surgical site infection anterior cruciate ligament reconstruction, surgical site infection automived surgical site infection automived seases Total causes surgical site infection Sakai 2019 Risk of opportunistic infections in patients with antineutrophil cytoplasmic antibody succiate ligament reconstruction MDV Nationwide 2008 2017 Clinical epidemiology, course of Diseases of the musculoskeletal antineutrophil cytoplasmic antibody antineutrophil cytoplasmic antibody succiate ligament reconstruction antineutrophil cytoplasmic antibody succiate ligament reconstruction antineutrophil cytoplasmic antibody antineutrophil cytoplasmic antibody succiate ligament reconstruction antineutrophil cytoplasmic antibody succiate ligament reconstruction		Stevens-Johnson Syndrome or Toxic Epidermal Necrolysis: A Retrospective Cohort Study				20		2024 Intervention ender					Juleis	0900 CTD 30010
Kawada 2018 Apole demographic risk factor for surgical site infection after DPC Nationwide 2015 Clinical ejidemiology, course of Diseases of the musculoskeletal Injury, poisoning and certain other anterior cruciate ligament reconstruction, age categories skai2019 Risk of opportunistic infections in patients with antineutrophil cytoplasmic antibody- MDV Nationwide 2005 2017 Diseases of the musculoskeletal Injury, poisoning and certain other antientor cruciate ligament reconstruction, age categories Skai2019 Risk of opportunistic infections in patients with antineutrophil cytoplasmic antibody-associated Diseases of the musculoskeletal antientorophil cytoplasmic antibody-associated antientorophil cytoplasmic antibody-associated														
anterior cruciate ligament reconstruction diseases system and connective tissue consequences of external causes surgical site infection Sakai 2019 Risk of opportunistic infections in patients with antineutrophil cytoplasmic antibody- MDV Nationwide 2008 2017 Clinical epidemiology, course of Diseases of the musculoskeletal antineutrophil cytoplasmic antibody-associated			DPC		Nationwide	20	010	2015 Clinical epidemiology, course of		Diseases of the musculoskeletal	Injury, poisoning and certain other	anterior cruciate ligament reconstruction,		age categories
		anterior cruciate ligament reconstruction						diseases				surgical site infection		
associated vasculitis, using a Japanese health insurance database disease system and connective tissue vasculitis			MDV		Nationwide	20	008						d	
		associated vasculitis, using a Japanese health insurance database						diseases		system and connective tissue		vasculitis		

Uechi 2018	Effect of plasma exchange on in-hospital mortality in patients with pulmonary hemorrhage secondary to antineutrophil cytoplasmic antibody-associated vasculitis: A	DPC		Nationwide		2009	2014 Intervention effect		Diseases of the musculoskeletal system and connective tissue	Others	Antineutrophil cytoplasmic antibody-associated vasculitis, secondary pulmonary hemorrhage	đ	
	propensity-matched analysis using a nationwide administrative database								system and connective tissue		vasculius, secondary pullionary nemormage		
Kumamaru		DPC		Nationwide		2012	2013 Medical treatment status	Health policy evaluation and	Diseases of the musculoskeletal	Diseases of the circulatory system	venous thromboembolism, total knee or hip	Others	aged ≥40 years
2019	embolism/Deep Vein Thrombosis in Patients Undergoing Total Knee or Hip Replacement Surgery: Japanese Nationwide Diagnosis Procedure Combination Database Study	t						utilization	system and connective tissue		replacement		
Nagase 2011	Risk factors for pulmonary embolism and the effects of fondaparinux after total hip and	DPC		Nationwide		2007	2008 Clinical epidemiology, course of	Intervention effect	Diseases of the musculoskeletal	Diseases of the circulatory system	total hip and knee arthroplasty, pulmonarry		
-	knee arthroplasty: a retrospective observational study with use of a national database in						diseases		system and connective tissue		embolism		
	Japan												
Matsumoto 2016	Time trends and risk factors for perioperative complications in total ankle arthroplasty: retrospective analysis using a national database in Japan	DPC		Nationwide		2007	2013 Clinical epidemiology, course of diseases	Medical treatment status	Diseases of the musculoskeletal system and connective tissue	Injury, poisoning and certain other consequences of external causes	Total ankle arthroplasty, end-stage ankle arthritic		
Yamagami	Unicompartmental knee arthroplasty is associated with lower proportions of surgical site	DPC		Nationwide		2010	2017 Clinical epidemiology, course of	Intervention effect	Diseases of the musculoskeletal		surgical site infection, Knee arthroplasty	Others	16-102 year of age
2021	infection compared with total knee arthroplasty: A retrospective nationwide database						diseases		system and connective tissue	consequences of external causes			
14	study	DPC		Nationwide		2010	2016 Intervention effect	Health economics	N		cervical spondylotic myelopathy		
Morishita 202	0 Comparison of Perioperative Complications Between Anterior Decompression With Fusion and Laminoplasty For Cervical Spondylotic Myelopathy: Propensity Score-	DPC		Nationwide		2010	2016 Intervention effect	Health economics	Diseases of the musculoskeletal system and connective tissue		cervical spondylotic myelopathy		
	matching Analysis Using Japanese Diagnosis Procedure Combination Database								system and connective disac				
Sumitani 2014	Perioperative factors affecting the occurrence of acute complex regional pain syndrome	DPC		Nationwide		2007	2010 Clinical epidemiology, course of		Diseases of the musculoskeletal		Complex regional pain syndrome, fractures		
	following limb bone fracture surgery: data from the Japanese Diagnosis Procedure						diseases		system and connective tissue	consequences of external causes			
Ishikawa 2021	Combination database Estimation of treatment and prognostic factors of pneumocystis pneumonia in patients	DPC		Nationwide		2014	2016 Clinical epidemiology, course of		Diseases of the musculoskeletal	Certain infectious and parasitic	connective tissue disease- associated		
15111KBW8 2021	with connective tissue diseases	DIG		Nationwide		2014	diseases		system and connective tissue	diseases	pneumocystis pneumonia		
Hasegawa	Factors that predict in-hospital mortality in eosinophilic granulomatosis with polyangiitis	DPC		Nationwide		2010	2013 Clinical epidemiology, course of		Diseases of the musculoskeletal		Eosinophilic granulomatosis with polyangiitis		
2015							diseases		system and connective tissue		(ICD-10 code, M301)		
Sugihara 2012	Impact of surgical intervention timing on the case fatality rate for Fournier's gangrene: an analysis of 379 cases	n DPC		Nationwide		2007	2010 Intervention effect		Diseases of the musculoskeletal system and connective tissue		Fournier's gangrene (ICD-10 code, M72.6)		
Ohara 2020	Fracture risk increased by concurrent use of central nervous system agents in older	NDB		Nationwide		2013	2014 Intervention effect		Diseases of the musculoskeletal	Iniury, poisoning and certain other	fragility fracture	Older nersons	aged ≥65 years
	people: Nationwide case-crossover study								system and connective tissue	consequences of external causes			/
Ohara 2020	Central Nervous System Agent Classes and Fragility Fracture Risk among Elderly	NDB		Nationwide		2013	2014 Intervention effect			Injury, poisoning and certain other	fragility fracture	Older persons	aged ≥65 years
lihara 2019	Japanese Individuals in a Nationwide Case-Crossover Design Study	NDB		Nationwide		2013	2014 Clinical anide states are a f		system and connective tissue Diseases of the musculoskeletal	consequences of external causes	Facility Freedomen	014	and GE
lihara 2019	Fragility Fractures in Older People in Japan Based on the National Health Insurance Claims Database	NDB		Nationwide		2013	2014 Clinical epidemiology, course of diseases		Diseases of the musculoskeletal system and connective tissue	Injury, poisoning and certain other consequences of external causes	Fragility Fractures	Older persons	aged 65 years or older
Hakoda 2020		JMDC	Comprehensive	Nationwide		2010	2014 Clinical epidemiology, course of		Diseases of the musculoskeletal	consequences or external eduses	gout patients		
			Survey of Living				diseases		system and connective tissue				
			Conditions (MHLW)										
Koto 2021	Factors associated with achieving target serum uric acid level and occurrence of gouty arthritis: A retrospective observational study of Japanese health insurance claims data	JMDC		Nationwide		2015	2017 Clinical epidemiology, course of diseases	Medical treatment status	Diseases of the musculoskeletal system and connective tissue		gouty arthritis	Others	18-65 years old
Kawata 2021	arthritis: A retrospective observational study of Japanese nealth insurance claims data Type of bone graft and primary diagnosis were associated with nosocomial surgical site	DPC		Nationwide		2010	2017 Clinical epidemiology, course of		Diseases of the musculoskeletal	Injury, poisoning and certain other	surgical site infection after high tibial		
	infection after high tibial osteotomy: analysis of a national database						diseases		system and connective tissue	consequences of external causes			
Okubo 2020	The Impact of Changes in Clinical Guideline on Practice Patterns and Healthcare	DPC		Nationwide		2010	2015 Medical treatment status	Health policy evaluation and	Diseases of the musculoskeletal		Kawasaki disease (ICD-10 code: M30.3)	Children	aged under 18 years
01 1 2010	Utilizations for Kawasaki Disease in Japan	000		Nationwide		2010	2015 Intervention effect	utilization	system and connective tissue Diseases of the musculoskeletal		Kawasaki Disease (M30.3)	Children	
OKUDU 2018	Association Between Dose of Glucocorticoids and Coronary Artery Lesions in Kawasaki Disease	DFC		Nationwide		2010	2015 Intervention enect		system and connective tissue		Kawasaki Disease (wou.s)	Children	aged <18 years
Takeuchi 2018	Changes in Hemoglobin Concentrations Post-immunoglobulin Therapy in Patients with	MDV		Nationwide		2010	2016 Intervention effect		Diseases of the musculoskeletal	Diseases of the blood and blood-	Kawasaki Disease (M30.3), anemia	Children	aged ≤18 years
	Kawasaki Disease: A Population-Based Study Using a Claims Database in Japan								system and connective tissue	forming organs and certain disorders involving the immune mechanism			
Kumamaru	Radiologist involvement is associated with reduced use of MRI in the acute period of low	0thers	MinaCare	Nationwide		2013	2015 Medical treatment status	Health policy evaluation and	Diseases of the musculoskeletal	mechanism	low-back pain	Others	aged 18-64 years
2018	back pain in a non-elderly population							utilization	system and connective tissue				
Ohya 2016	Does the microendoscopic technique reduce mortality and major complications in patients undergoing lumbar discectomy? A propensity score-matched analysis using a	DPC		Nationwide		2010	2013 Intervention effe	t	Diseases of the musculoskeletal system and connective tissue		lumbar discectomy		
K	nationwide administrative database Annual trends in arthroscopic meniscus surgery: Analysis of a national database in Japan	000		Nationwide		2007	2015 Medical treatment status		Diseases of the musculoskeletal		meniscus surgery		
Nawata 2010	Annual trends in artifioscopic meniscus surgery. Analysis of a national database in Japan	I DFC		Nationwide		2007	2015 Medical treatment status		system and connective tissue		meniscus surgery		
Chang 2013	Assessment of statin-associated muscle toxicity in Japan: a cohort study conducted using	g MDV		Nationwide		2004	2010 Intervention effect		Diseases of the musculoskeletal		muscle toxicity	Others	aged 18 or above
-	claims database and laboratory information								system and connective tissue				
Uehara 2014	Necrotising soft-tissue infections of the upper limb: risk factors for amputation and death	h DPC		Nationwide		2007	2010 Clinical epidemiology, course of		Diseases of the musculoskeletal system and connective tissue		Necrotising soft-tissue infections (M72.6)		
Suzuki 2021	Factors associated with mortality among patients with necrotizing soft tissue infections:	DPC		Nationwide		2014	diseases 2017 Clinical epidemiology, course of		Diseases of the musculoskeletal		necrotizing soft-tissue infection		
	An analysis of 4597 cases using the Diagnosis Procedure Combination Database						diseases		system and connective tissue				
Ebata-Kogure 2020	Treatment and Healthcare Cost Among Patients with Hip or Knee Osteoarthritis: A Cross-sectional Study Using a Real-world Claims Database in Japan Between 2013 and	MDV		Nationwide		2013	2019 Medical treatment status	Health economics	Diseases of the musculoskeletal		hip or knee osteoarthritis	Others	aged ≥18 years
2020	Cross-sectional Study Using a Real-world Claims Database in Japan Between 2013 and 2019								system and connective tissue				
Ueda 2020	Long-Term Pain Management and Health Care Resource Use Among an Employed	JMDC		Nationwide		2011	2012 Health economics	Medical treatment status	Diseases of the musculoskeletal		knee osteoarthritis (ICD-10-CM code M17)	Others	more than 40 years of
	Population in Japan with Knee Osteoarthritis Combined with Low Back Pain								system and connective tissue				age
Ueda 2020	Longitudinal Assessment of Pain Management Among the Employed Japanese	JMDC		Nationwide		2011	2012 Clinical epidemiology, course of	Medical treatment status	Diseases of the musculoskeletal		knee osteoarthritis (ICD-10-CM code M17)	Others	aged over 40 years
Sakai 2019	Population with Knee Osteoarthritis International descriptive study for comparison of treatment patterns in patients with	JMDC		Nationwide	Korea	2012	diseases 2013 Medical treatment status	Socioeconomic comparison	system and connective tissue Diseases of the musculoskeletal		knee osteoarthritis	Others	aged ≥50 years
23/01/2013	knee osteoarthritis between Korea and Japan using claims data				and				system and connective tissue			2000	
					Japan								
Akazawa 2019	Patterns of drug treatment in patients with osteoarthritis and chronic low back pain in	MDV		Nationwide		2013	2017 Medical treatment status	Clinical epidemiology, course of	Diseases of the musculoskeletal		osteoarthritis /chronic low back pain	Others	≥18 year of age
Kawata 2017	Japan: a retrospective database study Annual trends in knee arthroplasty and tibial osteotomy: Analysis of a national database	DPC		Nationwide		2007	2015 Medical treatment status	diseases	system and connective tissue Diseases of the musculoskeletal		Osteoarthritis, osteonecrosis, rheumatoid		age groups
	in Japan	5.0							system and connective tissue		arthritis		-0- 9.00ks
	A Retrospective Database Study of Gastrointestinal Events and Medical Costs	IMDC		Nationwide		2009	2018 Intervention effect	Health economics	Diseases of the musculoskeletal	Diseases of the digestive system	osteoarthritis, chronic low back pain,	Others	aged ≥18 years
Kikuchi 2021													
Kikuchi 2021	A netrospective Database study or Gastrointestinal events and wedical Costs Associated with Nonsteroidal Anti-Inflammatory Drugs in Japanese Patients of Working Age with Osteoarthritis and Chronic Low Back Pain								system and connective tissue		gastrointestinal events		

Saka 2019													
	Coding and prescription rates of osteoporosis are low among distal radius fracture patients in Japan	JMDC		Nationwide		2014	2015 Medical treatment status	Quality of care	Diseases of the musculoskeletal system and connective tissue		osteoporosis (ICD10: M819), distal radius fracture (S525, S526)	Others	aged 50–75 years
Tanaka 2018	Real-world evidence of raloxifene versus alendronate in preventing non-vertebral	MDV		Nationwide		2008	2013 Intervention effect		Diseases of the musculoskeletal		osteoporosis, non-vertebral fractures	Others	aged 50 years or olde
	fractures in Japanese women with osteoporosis: retrospective analysis of a hospital								system and connective tissue				
	claims database												
Usui 2018		JMDC		Nationwide		2005	2017 Medical treatment status	Patient health service utilization	Diseases of the musculoskeletal		osteoporosis (ICD-10 codes: M80 or M81)		
	osteoporosis in the real world: a claims database analysis								system and connective tissue				
Burge 2016	Real-world clinical and economic outcomes for daily teriparatide patients in Japan	MDV		Nationwide		2008	2013 Medical treatment status	Health economics	Diseases of the musculoskeletal		osteoporosis		
Euliment 2010	[Analysis of the persistence and compliance of switching medications for osteoporosis	NHI/LSEHS	National Health	Prefecture	Hokkaid	2014	2016 Medical treatment status	Patient health service utilization	system and connective tissue Diseases of the musculoskeletal		osteoporosis	Others	aged 50 years or olde
Fujimon 2019	(Analysis of the persistence and compnance of switching medications for osteoporosis using E-claim database)	NHI/Lacha	Insurance and the	Freiecture	поккајо	2014	2010 Medical treatment status	Patient hearth service utilization	system and connective tissue		osteoporosis	Others	aged 50 years of olde
	using E-claim databases		late-stage medical		0				system and connective casale				
			care system										
Fujimori 2019	[Analysis of the persistence and compliance of medications for osteoporosis using E-	NHI/LSEHS	National Health	Prefecture	Hokkaid	2014	2015 Patient health service utilization		Diseases of the musculoskeletal		osteoporosis	Others	aged 50 years or olde
	claim database]		Insurance and the		0				system and connective tissue				
			late-stage medical										
			care system										
Yamanaka	[What is the current state of osteoporosis in terms of medical costs? Considering the	NHI/LSEHS	long-term care	Municipality	Higashih	2016	2016 Clinical epidemiology, course of		Diseases of the musculoskeletal		Osteoporosis		
2019	current state of osteoporosis in communities from the National Health Insurance data		insurance data		iroshima		diseases		system and connective tissue				
	system]*		51550		city	0005							
Yokoyama 2020	Association between oral anticoagulants and osteoporosis: Real-world data mining using a multi-methodological approach	IMDC	FAERS	Nationwide		2005	2017 Intervention effect		Diseases of the musculoskeletal system and connective tissue	Others	osteoporosis and antimicrobial use		
		MDV		Nationwide		2008	2017 Harth			Initian principal and protoin other		Others	EQ
ragueni 2018	Treatment costs and cost drivers among osteoporotic fracture patients in Japan: a retrospective database analysis	WDV		INATIONWIDE		2008	2017 Health economics		Diseases of the musculoskeletal system and connective tissue	Injury, poisoning and certain other consequences of external causes	osteoporotic tracture	Utners	50 years and older
Morishita 2020	10 Risk factors related to perioperative systemic complications and mortality in elderly	DPC		Nationwide		2012	2016 Clinical epidemiology, course of		Diseases of the musculoskeletal	Injury, poisoning and certain other	osteoporotic vertebral fractures	Older persons	over 65 years old
	patients with osteoporotic vertebral fractures-analysis of a large national inpatient						diseases		system and connective tissue	consequences of external causes			
	database								-,				
Fujimori 2020	[Association of the medications for osteoporosis and the hip fracture using E-claim	NHI/LSEHS	The National Health	Prefecture	Hokkaid	2014	2018 Intervention effect		Diseases of the musculoskeletal	Injury, poisoning and certain other	osteoporosis, hip fracture	Older persons	60 years old and olde
	database]		Insurance system and	i	0				system and connective tissue	consequences of external causes			
			Late Elders' Health										
			Insurance										
Kirigaya 2011	Management and treatment of osteoporosis in patients receiving long-term	JMDC		Nationwide		2004	2007 Quality of care		Diseases of the musculoskeletal	Endocrine, nutritional and	Osteoporosis, glucocorticoid treatment	Others	aged ≥18 years
	glucocorticoid treatment: current status of adherence to clinical guidelines and related								system and connective tissue	metabolic diseases			
	factors	A		Nationwide									
Shiragami 2014	[Cost effectiveness of using medical topical adhesive patches for peritendinitis patients]	Others	JammNet	Nationwide		2010	2012 Health economics		Diseases of the musculoskeletal system and connective tissue		peri tendinitis		
	9 Perioperative complications of anterior decompression with fusion versus laminoplasty	DPC		Nationwide		2010	2016 Intervention effect		Diseases of the musculoskeletal	Iniury, poisoning and certain other	Perioperative complications, cervical		
101011311118 201.	for the treatment of cervical ossification of the posterior longitudinal ligament: propensity			Nationwide		2010	2010 Intervention enect		system and connective tissue	consequences of external causes	ossification of the posterior longitudinal		
	score matching analysis using a nation-wide inpatient database	,							system and connective cosae	consequences of external eduses	ligament		
Sruamsiri 2018	8 Persistence with Biological Disease-modifying Antirheumatic Drugs and Its Associated	MDV		Nationwide		2009	2015 Patient health service utilization	Health economics	Diseases of the musculoskeletal		rheumatoid arthritis	Others	aged ≥18 years
	Resource Utilization and Costs								system and connective tissue				
Sugiyama 201	16 Treatment Patterns, Direct Cost of Biologics, and Direct Medical Costs for Rheumatoid	JMDC		Nationwide		2005	2014 Medical treatment status	Health economics	Diseases of the musculoskeletal		Rheumatoid arthritis	Others	aged 16 to <75 years
	Arthritis Patients: A Real-world Analysis of Nationwide Japanese Claims Data								system and connective tissue				
Nakajima 202	1 Geographic variations in rheumatoid arthritis treatment in Japan: A nationwide	NDB		Nationwide		2017	2018 Medical treatment status	Socioeconomic comparison	Diseases of the musculoskeletal		rheumatoid arthritis	Others	16 years old or older
	retrospective study using the national database of health insurance claims and specific								system and connective tissue				
Lane 2020	health checkups of Japan												
Lane 2020	Risk of hydroxychloroquine alone and in combination with azithromycin in the treatment	JMDC	Data comprised 14	Nationwide		2000	2020 Intervention effect		Diseases of the musculoskeletal		rheumatoid arthritis	Others	18 years or older
Calle 2020	Risk of hydroxychloroquine alone and in combination with azithromycin in the treatment of rheumatoid arthritis: a multinational, retrospective study	JMDC	sources of claims	Nationwide		2000	2020 Intervention effect		Diseases of the musculoskeletal system and connective tissue		rheumatoid arthritis	Others	18 years or older
Lane 2020		JMDC	sources of claims data or electronic			2000	2020 Intervention effect				rheumatoid arthritis	Others	18 years or older
Lane 2020		JMDC	sources of claims data or electronic medical records from			2000	2020 Intervention effect				rheumatoid arthritis	Others	18 years or older
Lane 2020		JMDC	sources of claims data or electronic medical records from Germany, Japan, the			2000	2020 Intervention effect				rheumatoid arthritis	Others	18 years or older
Lane 2020		JMDC	sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain,			2000	2020 Intervention effect				rheumatoid arthritis	Others	18 years or older
	of rheumatoid arthritis: a multinational, retrospective study	JMDC	sources of claims data or electronic medical records from Germany, Japan, the			2000		Medical treatment status			rheumatoid arthritis	Others	
	of rheumatoid arthritis: a multinational, retrospective study		sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain,				2020 Intervention effect 2018 Clinical epidemiology, course of diseases	Medical treatment status	system and connective tissue				18 years or older aged ≥16 years
	of rheumatoid arthritis: a multinational, retrospective study Prevalence of patients with rheumatoid arthritis and age-stratified trends in clinical characteristics and treatment, based on the National Database of Health Insurance		sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain,				2018 Clinical epidemiology, course of	Medical treatment status	system and connective tissue				
Nakajima 2020	of rheumatoid arthritis: a multinational, retrospective study		sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain,				2018 Clinical epidemiology, course of	Medical treatment status	system and connective tissue				
Nakajima 2020	of rheumatoid arthritis: a multinational, retrospective study 10 Prevalence of patients with rheumatoid arthritis and age-stratified trends in clinical characteristics and treatment, based on the National Database of Health Insurance Claims and Specific Health Checkups of Japan	NDB	sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain,	Nationwide		2017	2018 Clinical epidemiology, course of diseases	Medical treatment status	system and connective tissue Diseases of the musculoskeletal system and connective tissue		rheumatoid arthritis		
Nakajima 2020	of rheumatoid arthritis: a multinational, retrospective study Prevalence of patients with rheumatoid arthritis and age-stratified trends in clinical characteristics and treatment, based on the National Database of Health Insurance Claims and Specific Health Chackups of Japan Dose Adjustment of Methotraska Administered Concomitantly with Golimumab for	NDB	sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain,	Nationwide		2017	2018 Clinical epidemiology, course of diseases	Medical treatment status	system and connective tissue Diseases of the musculoskeletal system and connective tissue Diseases of the musculoskeletal		rheumatoid arthritis		
Nakajima 2024 Yamairi 2020 Kasai 2019	of rheumatoid arthritis: a multinational, retrospective study Prevalence of patients with rheumatoid arthritis and age-stratified trends in clinical characteristics and treatment, based on the National Database of Health Insurance Claims and Specific Health Checkups of Japan Does Adjustment of Methotreast Administered Concomitantly with Golimumab for Rheumatoid Arthritis in Japanese Real-Wold Clinical Settings Higher risk of hospitalized infection, cardiovascular disease, and fracture in patients with rheumatoid arthritis determined using the Japanese health Insurance database	NDB JMDC JMDC	sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain, the UK, and the USA.	Nationwide Nationwide Nationwide		2017 2005 2005	2018 Clinical epidemiology, course of diseases 2018 Intervention effect 2014 Clinical epidemiology, course of diseases	Medical treatment status	system and connective tissue Diseases of the musculoskeletal system and connective tissue Diseases of the musculoskeletal system and connective tissue system and connective tissue		rheumatoid arthritis Rheumatoid arthritis (M05, M06, and M080) Rheumatoid arthritis	Others	aged ≥16 years
Nakajima 2020 Yamairi 2020 Kasai 2019 Takabayashi	of rheumatoid arthritis: a multinational, retrospective study Prevalence of patients with rheumatoid arthritis and age-stratified trends in clinical characteristics and treatment, based on the National Database of Health Insurance Claims and Specific Health Checkups of Japan Dose Adjustment of Methotrexate Administered Concomitantly with Golimumab for Rheumatoid Arthritis in Japanese Real-World Clinical Settings Higher risk of hospitalized Infection, cardiovascular disease, and fracture in patients with rheumatoid arthritis determined using the Japanese health insurance database Comparing the effectiveness of biological disease-modifying antirheumatic drugs using	NDB JMDC JMDC	sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain, the UK, and the USA.	Nationwide Nationwide Nationwide	13	2017 2005	2018 Clinical epidemiology, course of diseases 2018 Intervention effect 2014 Clinical epidemiology, course of	Medical treatment status	system and connective tissue Diseases of the musculoskeletal		rheumatoid arthritis Rheumatoid arthritis (M05, M06, and M080)	Others	aged ≥16 years
Nakajima 2024 Yamairi 2020 Kasai 2019	of rheumatoid arthritis: a multinational, retrospective study Prevalence of patients with rheumatoid arthritis and age-stratified trends in clinical characteristics and treatment, based on the National Database of Health Insurance Claims and Specific Health Checkups of Japan Does Adjustment of Methotreast Administered Concomitantly with Golimumab for Rheumatoid Arthritis in Japanese Real-Wold Clinical Settings Higher risk of hospitalized infection, cardiovascular disease, and fracture in patients with rheumatoid arthritis determined using the Japanese health Insurance database	NDB JMDC JMDC	sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain, the UK, and the USA.	Nationwide Nationwide Nationwide	Japanes	2017 2005 2005	2018 Clinical epidemiology, course of diseases 2018 Intervention effect 2014 Clinical epidemiology, course of diseases	Medical treatment status	system and connective tissue Diseases of the musculoskeletal system and connective tissue Diseases of the musculoskeletal system and connective tissue system and connective tissue		rheumatoid arthritis Rheumatoid arthritis (M05, M06, and M080) Rheumatoid arthritis	Others	aged ≥16 years
Nakajima 2020 Yamairi 2020 Kasai 2019 Takabayashi	of rheumatoid arthritis: a multinational, retrospective study Prevalence of patients with rheumatoid arthritis and age-stratified trends in clinical characteristics and treatment, based on the National Database of Health Insurance Claims and Specific Health Checkups of Japan Dose Adjustment of Methotrexate Administered Concomitantly with Golimumab for Rheumatoid Arthritis in Japanese Real-World Clinical Settings Higher risk of hospitalized Infection, cardiovascular disease, and fracture in patients with rheumatoid arthritis determined using the Japanese health insurance database Comparing the effectiveness of biological disease-modifying antirheumatic drugs using	NDB JMDC JMDC	sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain, the UK, and the USA 13 Japanese national university hospitals' claims data (Clinical	Nationwide Nationwide Nationwide	Japanes e	2017 2005 2005	2018 Clinical epidemiology, course of diseases 2018 Intervention effect 2014 Clinical epidemiology, course of diseases	Medical treatment status	system and connective tissue Diseases of the musculoskeletal		rheumatoid arthritis Rheumatoid arthritis (M05, M06, and M080) Rheumatoid arthritis	Others	aged ≥16 years
Nakajima 2020 Yamairi 2020 Kasai 2019 Takabayashi	of rheumatoid arthritis: a multinational, retrospective study Prevalence of patients with rheumatoid arthritis and age-stratified trends in clinical characteristics and treatment, based on the National Database of Health Insurance Claims and Specific Health Checkups of Japan Dose Adjustment of Methotrexate Administered Concomitantly with Golimumab for Rheumatoid Arthritis in Japanese Real-World Clinical Settings Higher risk of hospitalized Infection, cardiovascular disease, and fracture in patients with rheumatoid arthritis determined using the Japanese health insurance database Comparing the effectiveness of biological disease-modifying antirheumatic drugs using	NDB JMDC JMDC	sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain, the UK, and the USA.	Nationwide Nationwide Nationwide	Japanes e national	2017 2005 2005	2018 Clinical epidemiology, course of diseases 2018 Intervention effect 2014 Clinical epidemiology, course of diseases	Medical treatment status	system and connective tissue Diseases of the musculoskeletal		rheumatoid arthritis Rheumatoid arthritis (M05, M06, and M080) Rheumatoid arthritis	Others	aged ≥16 years
Nakajima 2020 Yamairi 2020 Kasai 2019 Takabayashi	of rheumatoid arthritis: a multinational, retrospective study Prevalence of patients with rheumatoid arthritis and age-stratified trends in clinical characteristics and treatment, based on the National Database of Health Insurance Claims and Specific Health Checkups of Japan Dose Adjustment of Methotrexate Administered Concomitantly with Golimumab for Rheumatoid Arthritis in Japanese Real-World Clinical Settings Higher risk of hospitalized Infection, cardiovascular disease, and fracture in patients with rheumatoid arthritis determined using the Japanese health insurance database Comparing the effectiveness of biological disease-modifying antirheumatic drugs using	NDB JMDC JMDC	sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain, the UK, and the USA.	Nationwide Nationwide Nationwide	Japanes e national universit	2017 2005 2005	2018 Clinical epidemiology, course of diseases 2018 Intervention effect 2014 Clinical epidemiology, course of diseases	Medical treatment status	system and connective tissue Diseases of the musculoskeletal		rheumatoid arthritis Rheumatoid arthritis (M05, M06, and M080) Rheumatoid arthritis	Others	aged ≥16 years
Nakajima 2020 Yamairi 2020 Kasai 2019 Takabayashi	of rheumatoid arthritis: a multinational, retrospective study Prevalence of patients with rheumatoid arthritis and age-stratified trends in clinical characteristics and treatment, based on the National Database of Health Insurance Claims and Specific Health Checkups of Japan Dose Adjustment of Methotrexate Administered Concomitantly with Golimumab for Rheumatoid Arthritis in Japanese Real-World Clinical Settings Higher risk of hospitalized Infection, cardiovascular disease, and fracture in patients with rheumatoid arthritis determined using the Japanese health insurance database Comparing the effectiveness of biological disease-modifying antirheumatic drugs using	NDB JMDC JMDC	sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain, the UK, and the USA.	Nationwide Nationwide Nationwide	Japanes e national universit y	2017 2005 2005	2018 Clinical epidemiology, course of diseases 2018 Intervention effect 2014 Clinical epidemiology, course of diseases	Medical treatment status	system and connective tissue Diseases of the musculoskeletal		rheumatoid arthritis Rheumatoid arthritis (M05, M06, and M080) Rheumatoid arthritis	Others	aged ≥16 years
Nakajima 2020 Yamairi 2020 Kasai 2019 Takabayashi	of rheumatoid arthritis: a multinational, retrospective study Prevalence of patients with rheumatoid arthritis and age-stratified trends in clinical characteristics and treatment, based on the National Database of Health Insurance Claims and Specific Health Checkups of Japan Dose Adjustment of Methotrexate Administered Concomitantly with Golimumab for Rheumatoid Arthritis in Japanese Real-World Clinical Settings Higher risk of hospitalized Infection, cardiovascular disease, and fracture in patients with rheumatoid arthritis determined using the Japanese health insurance database Comparing the effectiveness of biological disease-modifying antirheumatic drugs using	NDB JMDC JMDC	sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain, the UK, and the USA.	Nationwide Nationwide Nationwide	Japanes e national universit	2017 2005 2005	2018 Clinical epidemiology, course of diseases 2018 Intervention effect 2014 Clinical epidemiology, course of diseases	Medical treatment status	system and connective tissue Diseases of the musculoskeletal		rheumatoid arthritis Rheumatoid arthritis (M05, M06, and M080) Rheumatoid arthritis	Others	aged ≥16 years
Nakajima 2020 Yamairi 2020 Kasai 2019 Takabayashi 2019	of rheumatoid arthritis: a multinational, retrospective study O Prevalence of patients with rheumatoid arthritis and age-stratified trends in clinical characteristics and treatment, based on the National Database of Health Insurance Claims and Specific Health Checkups of Japan Dose Adjustment of Methotrexate Administered Concomitantly with Golimumab for Rheumatoid Arthritis in Japanese Real-World Clinical Settings Higher risk of hospitalized infection, cardiovascular disease, and fracture in patients with rheumatid arthritis determined using the Japanese Health Insurance database Comparing the effectiveness of biological disease-modifying antirheumatic drugs using real-world data	NDB JMDC JMDC Others	sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain, the UK, and the USA.	Nationwide Nationwide Nationwide	Japanes e national universit y	2017 2005 2005 2005	2018 Clinical epidemiology, course of diseases 2018 Intervention effect 2014 Clinical epidemiology, course of diseases 2015 Intervention effect	Medical treatment status	System and connective tissue Diseases of the musculoskeletal system and connective tissue Diseases of the musculoskeletal system and connective tissue Diseases of the musculoskeletal system and connective tissue		rheumatoid arthritis Rheumatoid arthritis (M05, M06, and M080) Rheumatoid arthritis rheumatoid arthritis	Others	aged ≥16 years aged ≥18 years
Nakajima 2020 Yamairi 2020 Kasai 2019 Takabayashi 2019	Of rheumatoid arthritis: a multinational, retrospective study Prevalence of patients with rheumatoid arthritis and age-stratified trends in clinical characteristics and treatment, based on the National Database of Health Insurance Daix adjustment of Methoretaxe Administered Concomitantly with Golimumab for Rheumatoid Arthritis in Japanese Real-World Clinical Settings Pilper risk of hospitalized infection, cardiovascular disease, and fracture in patients with rheumatoid arthritis determined using the Japanese health insurance database Comparing the effectiveness of biological disease-modifying antirheumatic drugs using real-world data	NDB JMDC JMDC	sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain, the UK, and the USA.	Nationwide Nationwide Nationwide	Japanes e national universit y	2017 2005 2005	2018 Clinical epidemiology, course of diseases 2018 Intervention effect 2014 Clinical epidemiology, course of diseases	Medical treatment status	system and connective tissue Diseases of the musculoskeletal		rheumatoid arthritis Rheumatoid arthritis (M05, M06, and M080) Rheumatoid arthritis	Others	aged ≥16 years
Nakajima 2020 Yamairi 2020 Kasai 2019 Takabayashi 2019 Mahlich 2017	of rheumatoid arthritis: a multinational, retrospective study O Prevalence of patients with rheumatoid arthritis and age-stratified trends in clinical characteristics and treatment, based on the National Database of Health Insurance Claims and Specific Health Checkups of Japan Dose Adjustment of Methotrexate Administered Concomitantly with Golimumab for Rheumatoid Arthritis in Japanese Real-World Clinical Settings Higher risk of hospitalized infection, cardiovascular disease, and fracture in patients with rheumatid arthritis determined using the Japanese Health Insurance database Comparing the effectiveness of biological disease-modifying antirheumatic drugs using real-world data	NDB JMDC JMDC Others	sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain, the UK, and the USA.	Nationwide Nationwide Nationwide	Japanes e national universit y	2017 2005 2005 2005	2018 Clinical epidemiology, course of diseases 2018 Intervention effect 2014 Clinical epidemiology, course of diseases 2015 Intervention effect	Medical treatment status	System and connective tissue Diseases of the musculoskeletal system and connective tissue Diseases of the musculoskeletal system and connective tissue Diseases of the musculoskeletal system and connective tissue		rheumatoid arthritis Rheumatoid arthritis (M05, M06, and M080) Rheumatoid arthritis rheumatoid arthritis	Others	aged ≥16 years aged ≥18 years
Nakajima 2020 Yamairi 2020 Kasai 2019 Takabayashi 2019 Mahlich 2017	Of rheumatoid arthritis: a multinational, retrospective study Prevalence of patients with rheumatoid arthritis and age-stratified trends in clinical characteristics and treatment, based on the National Database of Health Insurance Claims and Specific Health Chackups of Japan Does Adjustment of Methoreater Administered Concomitantly with Golimumab for Rheumatoid Arthritis in Japanese Real-Wolf Clinical Settings Higher risk of hospitalized infection, cardiovascular disease, and fracture in patients with rheumatoid arthritis determined using the Japanese health insurance database Comparing the effectiveness of biological disease-modifying antirheumatic drugs using real-world data	NDB JMDC JMDC Others MDV	sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain, the UK, and the USA.	Nationwide Nationwide Nationwide Nationwide	Japanes e national universit y	2017 2005 2005 2005 2005	2018 Clinical epidemiology, course of diseases 2018 Intervention effect 2014 Clinical epidemiology, course of diseases 2015 Intervention effect 2016 Intervention effect 2014 Medical treatment status	Medical treatment status	System and connective tissue Diseases of the musculoskeletal system and connective tissue		rheumatoid arthritis Rheumatoid arthritis (M05, M06, and M080) Rheumatoid arthritis rheumatoid arthritis	Others	aged ≥16 years aged ≥18 years age distribution
Nakajima 2020 Yamairi 2020 Kasai 2019 Takabayashi 2019 Mahlich 2017 Mahlich 2016	Of rheumatoid arthritis: a multinational, retrospective study Prevalence of patients with rheumatoid arthritis and age-stratified trends in clinical characteristics and treatment, based on the National Database of Health Insurance Claims and Specific Health Chackups of Japan Does Adjustment of Methoreater Administered Concomitantly with Golimumab for Rheumatoid Arthritis in Japanese Real-Wolf Clinical Settings Higher risk of hospitalized infection, cardiovascular disease, and fracture in patients with rheumatoid arthritis determined using the Japanese health insurance database Comparing the effectiveness of biological disease-modifying antirheumatic drugs using real-world data	NDB JMDC JMDC Others MDV	sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain, the UK, and the USA.	Nationwide Nationwide Nationwide Nationwide	Japanes e national universit y	2017 2005 2005 2005 2005	2018 Clinical epidemiology, course of diseases 2018 Intervention effect 2014 Clinical epidemiology, course of diseases 2015 Intervention effect 2016 Intervention effect 2014 Medical treatment status	Medical treatment status	System and connective tissue Diseases of the musculoskeletal Diseases of the musculoskeletal Diseases of the musculoskeletal Diseases of the musculoskeletal		rheumatoid arthritis Rheumatoid arthritis (M05, M06, and M080) Rheumatoid arthritis rheumatoid arthritis	Others	aged ≥16 years aged ≥18 years age distribution
Nakajima 2020 Yamairi 2020 Kasai 2019 Takabayashi 2019 Mahlich 2017 Mahlich 2016	Of rheumatoid arthritis: a multinational, retrospective study Prevalence of patients with rheumatoid arthritis and age-stratified trends in clinical characteristics and treatment, based on the National Database of Health Insurance Claims and Specific Health Checkups of Japan Dose Adjustment of Methoreask Administered Concomitantly with Golimumab for Rheumatoid Arthritis in Japanese Real-World Clinical Settings Theomatoid Arthritis determined using the Japanese health insurance database Comparing the effectiveness of biological disease-modifying antirheumatic drugs using real-world data Treatment patterns of rheumatoid arthritis in Japanese hospitals and predictors of the initiation of biologic agents Persistence with biologic agents for the treatment of rheumatoid arthritis in Japan Prescription patterns and trends in anti-rheumatic drug us based on a large-scale claims database in Japan	NDB JMDC JMDC Others MDV MDV	sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain, the UK, and the USA.	Nationwide Nationwide Nationwide Nationwide	Japanes e national universit y	2017 2005 2005 2005 2005 2012 2012	2018 Clinical epidemiology, course of diseases 2018 Intervention effect 2014 Clinical epidemiology, course of diseases 2015 Intervention effect 2016 Intervention effect 2014 Medical treatment status 2014 Patient health service utilization		system and connective tissue Diseases of the musculoskeletal system and connective tissue		rheumatoid arthritis Rheumatoid arthritis (M05, M06, and M080) Rheumatoid arthritis rheumatoid arthritis rheumatoid arthritis rheumatoid arthritis	Others	aged ≥16 years aged ≥18 years age distribution age distribution
Nakajima 2020 Yamairi 2020 Kasai 2019 Takabayashi 2019 Mahlich 2017 Mahlich 2016	Of rheumatoid arthritis: a multinational, retrospective study Prevalence of patients with rheumatoid arthritis and age-stratified trends in clinical characteristics and treatment, based on the National Database of Health Insurance Claims and Specific Health Checkups of Japan Dorse Adjustment of Methotrestare Administered Concomitantly with Golimumab for Rheumatoid Arthritis in Japanese Real-World Clinical Settings Higher risk of hospitalized infection, cardiovascular disease, and fracture in patients with rheumatoid Arthritis determined using the Japanese health insurance database Comparing the effectiveness of biological disease-modifying antirheumatic drugs using real-world data Treatment patterns of rheumatoid arthritis in Japanese hospitals and predictors of the initiation of biologic agents Persistence with biologic agents for the treatment of rheumatoid arthritis in Japan Prescription patterns and trends in anti-rheumatic drug us based on a large-scale	NDB JMDC JMDC Others MDV MDV	sources of claims data or electronic medical records from Germany, Japan, the Netherlands, Spain, the UK, and the USA.	Nationwide Nationwide Nationwide Nationwide	Japanes e national universit y	2017 2005 2005 2005 2005 2012 2012	2018 Clinical epidemiology, course of diseases 2018 Intervention effect 2014 Clinical epidemiology, course of diseases 2015 Intervention effect 2016 Intervention effect 2014 Medical treatment status 2014 Patient health service utilization		system and connective tissue Diseases of the musculoskeletal system and connective tissue Dise		rheumatoid arthritis Rheumatoid arthritis (M05, M06, and M080) Rheumatoid arthritis rheumatoid arthritis rheumatoid arthritis rheumatoid arthritis	Others	aged ≥16 years aged ≥18 years age distribution

	High prevalence of cardiovascular comorbidities in patients with rheumatoid arthritis	JMDC		Nationwide		2010	2012 Clinical epidemiology, course of		Diseases of the musculoskeletal	Diseases of the circulatory system	rheumatoid arthritis (RA) and cardiovascular		age group
	from a population-based cross-sectional study of a Japanese health insurance database						diseases		system and connective tissue		comorbidities		
Tanaka 2016	Risk for cardiovascular disease in Japanese patients with rheumatoid arthritis: a large-	MDV		Nationwide		2011	2014 Clinical epidemiology, course of		Diseases of the musculoskeletal	Diseases of the circulatory system	rheumatoid arthritis, risk for cardiovascular	Others	aged 18 years or older
	scale epidemiological study using a healthcare database						diseases		system and connective tissue		disease		1 11 10
	In-hospital mortality and morbidity of pediatric scoliosis surgery in Japan: Analysis using a national inpatient database	DPC		Nationwide		2010	2013 Clinical epidemiology, course of diseases	Intervention effect	Diseases of the musculoskeletal system and connective tissue		pediatric scoliosis	Children	less than 19 years
	In-hospital complication rate following microendoscopic versus open lumbar	DPC		Nationwide		2010	2013 Intervention effect		Diseases of the musculoskeletal		Lumbar spinal stenosis	Others	patients aged ≥20 y
	laminectomy: a propensity score-matched analysis								system and connective tissue				
Kato 2016	Risk of infectious complications associated with blood transfusion in elective spinal	DPC		Nationwide		2007	2012 Intervention effect		Diseases of the musculoskeletal		spinal stenosis, spondylolis- thesis	Others	aged \geq 20 years
Kuboyama	surgery-a propensity score matched analysis The Number of Patients and Therapeutic Profile of Spinal Stenosis Using Health	NHI/LSEHS	National Health	Prefecture	a	2010	2011 Clinical epidemiology, course of	Medical treatment status	system and connective tissue Diseases of the musculoskeletal		spinal stenosis		
	Insurance Claims in Japan	HIII) EOEHO	Insurance (NHI) and	Trefeeture	prefectu	2010	diseases		system and connective tissue		spine stenosis		
			Late-stage Elderly		re in								
			Health Insurance (LEHI)		south- western								
			(LEHI)		Japan								
Oichi 2019	[Can elective spine surgery be performed safely among nonagenarians? : Analysis of a	DPC	-	Nationwide		2010	2013 Intervention effect		Diseases of the musculoskeletal		spine surgery	Older persons	aged 65 years or older
	national inpatient database in Japan]								system and connective tissue				
	Can Elective Spine Surgery Be Performed Safely Among Nonagenarians?: Analysis of a National Inpatient Database in Japan	DPC		Nationwide		2010	2013 Clinical epidemiology, course of diseases	Intervention effect	Diseases of the musculoskeletal		surgical outcomes, underwent elective spine	Older persons	≥65 years of age
-	Perioperative stroke in patients undergoing elective spinal surgery: a retrospective	DPC		Nationwide		2007	2012 Intervention effect		system and connective tissue Diseases of the musculoskeletal	Diseases of the circulatory system	surgery perioperative stroke in patients undergoing	Others	aged 20 years or older
	analysis using the Japanese diagnosis procedure combination database								system and connective tissue		elective spinal surgery		-8
		DPC		Nationwide		2007	2008 Clinical epidemiology, course of	Intervention effect	Diseases of the musculoskeletal	Diseases of the circulatory system	pulmonary embolism after spinal surgery		
	the national administrative database in Japan Mortality and morbidity in dialysis-dependent patients undergoing spinal surgery:	DPC		Nationwide		2007	diseases 2008 Clinical epidemiology, course of	Intervention effect	system and connective tissue Diseases of the musculoskeletal	Diseases of the genitourinary	dialysis-dependent patients treated with spinal		
CIIIKUUA 2012	analysis of a national administrative database in Japan	DFC		Nationwide		2007	diseases	Intervention enect	system and connective tissue	system	surgery		
Tomita 2021	Treatment patterns and health care resource utilization among Japanese patients with	MDV		Nationwide		2009	2017 Medical treatment status	Health economics	Diseases of the musculoskeletal	-,	ankylosing spondylitis (ICD10 codes; M08.1,		
	ankylosing spondylitis: A hospital claims database analysis								system and connective tissue		M45.0, M45.4, M45.9)		
	Treatment patterns and medical cost of systemic lupus erythematosus patients in Japan:	JMDC		Nationwide		2010	2017 Medical treatment status	Health economics	Diseases of the musculoskeletal		systemic lupus erythematosus (M321)	Others	aged ≥18 years
	a retrospective claims database study Disease severity and economic burden in Japanese patients with systemic lupus	JMDC		Nationwide		2010	2012 Health economics		system and connective tissue Diseases of the musculoskeletal		systemic lupus erythematosus (M32)	Others	15 to 65 years of age
Tununa 2010	erythematosus: A retrospective, observational study	51110-0		Hationinad		2010	LOTE HEART CONDITION		system and connective tissue		systeme lapus crythematosus (inst.)	oundro	10 to 00 Jeans of age
Sakai 2020	The risk of hospitalized infection in patients with systemic lupus erythematosus treated	MDV		Nationwide		2015	2017 Intervention effect		Diseases of the musculoskeletal		systemic lupus erythematosus (M321 or M329)	Others	≥16 years of age
	with hydroxychloroquine								system and connective tissue				
	Incidence and risk factors for mortality of vertebral osteomyelitis: a retrospective analysis using the Japanese diagnosis procedure combination database	DPC		Nationwide		2007	2010 Clinical epidemiology, course of diseases		Diseases of the musculoskeletal system and connective tissue		vertebral osteomyelitis		
	the genitourinary system (N00-N99)						uiseases		system and connective tissue				
	Association of proton pump inhibitors and concomitant drugs with risk of acute kidney	JMDC		Nationwide		2005	2017 Intervention effect		Diseases of the genitourinary		Acute kidney injury (AKI; N17X)		
	injury: a nested case-control study						A444 44 14 14 14 14 14 14 14 14	A	system			A	
Iwagami 2015	Current state of continuous renal replacement therapy for acute kidney injury in Japanese intensive care units in 2011: analysis of a national administrative database	DPC		Nationwide		2011	2011 Medical treatment status	Clinical epidemiology, course of diseases	Diseases of the genitourinary		acute kidney injury in ICU	Others	aged ≥ 12 years
Miyamoto	Association between intravenous contrast media exposure and non-recovery from	DPC		Nationwide		2011	2016 Intervention effect	diacases	Diseases of the genitourinary		septic acute kidney injury	Others	aged ≥18 years
	dialysis-requiring septic acute kidney injury: a nationwide observational study								system				
	Factor analysis of acute kidney injury in patients administered liposomal amphotericin B	MDV		Nationwide		2008	2018 Intervention effect		Diseases of the genitourinary	Others	broad-spectrum antifungal drug, acute kidney	Others	≥18 year of age
	in a real-world clinical setting in Japan [Comparison of characteristics and prognosis between septic and non-septic acute	DPC		Nationwide		2011	2011 Clinical epidemiology, course of		system Diseases of the genitourinary	Certain infectious and parasitic	injury septic and non-septic acute kidney injury		
10050111 2020	kidney injury in Japanese intensive care units]	510		Hationinad		2011	diseases		system	diseases	Septe and non-septe deate maney injury		
Imai 2020	A cross-sectional exploratory survey on occurrence of triple-whammy prescription pattern	n JMDC		Nationwide		2017	2017 Medical treatment status		Diseases of the genitourinary		chronic kidney disease		
-	in Japan								system				
	Higher medical costs for CKD patients with a rapid decline in eGFR: A cohort study from the Japanese general population	NHI/LSEHS	KDB	Nationwide		2012	2013 Health economics		Diseases of the genitourinary system		chronic kidney disease	Others	aged 40-74 years
	Stages of a transtheoretical model as predictors for the decline of estimated glomerular	JHIA	Japan Health	Prefecture	Kyoto	2012	2016 Clinical epidemiology, course of		Diseases of the genitourinary		kidney disease (estimated glomerular filtration	Others	between 35 and 75
	filtration rate: a retrospective cohort study		Insurance Association				diseases		system		rate)		years old
			in Kyoto prefecture										
Eukuma 2020	Quality of Care in Chronic Kidney Disease and Incidence of End-stage Renal Disease in	NDB		Nationwide		2010	2014 Quality of care	Intervention effect	Diseases of the genitourinary		chronic kidney disease, end-stage renal disease	Older nersons	>65 years of age
													/
	Older Patients: A Cohort Study								system				
Kikuchi 2018	Short-term prognosis of emergently hospitalized dialysis-independent chronic kidney	DPC		Nationwide		2013	2016 Clinical epidemiology, course of		system Diseases of the genitourinary		chronic kidney disease	Others	20-69 years old
Kikuchi 2018	Short-term prognosis of emergently hospitalized dialysis-independent chronic kidney disease patients: A nationwide retrospective cohort study in Japan						diseases		Diseases of the genitourinary system			Others	20-69 years old
Kikuchi 2018 Hagiwara 2017	Short-term prognosis of emergently hospitalized dialysis-independent chronic kidney disease patients: A nationwide retrospective cohort study in Japan The Survey of the Compliance Situation to the Antihypertensive Therapy Guideline by	DPC NDB	Sampling data	Nationwide Nationwide		2013 2011		Quality of care	Diseases of the genitourinary system Diseases of the genitourinary		chronic kidney disease kidney disease	Others	20-69 years old
Kikuchi 2018 Hagiwara 2017	Short-term prognosis of emergently hospitalized dialysis-independent chronic kidney disease patients: A nationwide retrospective cohort study in Japan The Survey of the Compliance Situation to the Antihypertensive Therapy Guideline by Analyzing Japanese National Claims Data		Sampling data		:		diseases	Quality of care	Diseases of the genitourinary system			Others Others	20-69 years old aged ≥20 years
Kikuchi 2018 Hagiwara 2017 Imai 2020	Short-term prognosis of emergently hospitalized dialysis-independent chronic kidney disease patients: A nationwide retrospective cohort study in Japan The Survey of the Compliance Situation to the Antihypertensive Therapy Guideline by Analyzing Japanese National Claims Data Nonsteroidal anti-inflammatory drugs use in patients with chronic kidney disease are often prescribed from different clinicians than those who diagnosed them	NDB JMDC	Sampling data	Nationwide	:	2011 2014	diseases 2011 Medical treatment status 2017 Medical treatment status	Quality of care	Diseases of the genitourinary system Diseases of the genitourinary system		kidney disease		
Kikuchi 2018 Hagiwara 2017 Imai 2020 Takada 2019	Short-term prognosis of emergently hospitalized dialysis-independent chronic kidney disease patients: A nationwide retrospective cohort study in Japan The Survey of the Compliance Situation to the Antihypertensive Therapy Guideline by Analyzing Japanese National Claims Data Nonsteroidal anti-inflammatory drugs use in patients with chronic kidney disease are often prescribed from different clinicians than those who diagnosed them Previously-indiated hemodialysis as prognostic factor for in-hospital motality in	NDB JMDC DPC	Sampling data	Nationwide	:	2011	diseases 2011 Medical treatment status 2017 Medical treatment status 2016 Clinical epidemiology, course of	Quality of care	Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary		kidney disease		
Kikuchi 2018 Hagiwara 2017 Imai 2020 Takada 2019	Short-term prognosis of emergently hospitalized dialysis-independent chronic kidney disease patients: A nationwide retrospective cohort study in Japan The Survey of the Compliance Situation teth Anthibypertensive Therapy Guideline by Analyzing Japanese National Claims Data Nonsteroidal anti-inflammatory dwings use in patients with chronic kidney disease are often prescribed from different clinicians than those who diagnosed them Previoualy-initiated hemodalysis as prognostic factor for in-hospital mortality in perumonia patients with stage 5 chronic kidney disease. Retrospective database study o	NDB JMDC DPC	Sampling data	Nationwide Nationwide	:	2011 2014	diseases 2011 Medical treatment status 2017 Medical treatment status	Quality of care	Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system		kidney disease chronic kidney disease, NSAIDs	Others	aged ≥20 years
Kikuchi 2018 Hagiwara 2017 Imai 2020 Takada 2019	Short-term prognosis of emergently hospitalized dialysis-independent chronic kidney direase patients: A nationwide retrospective cohort study in Japan The Survey of the Compliance Situation to the Antihypertensive Therapy Guideline by Analyzing Japanese National Claims Data Nonsteroidal anti-inflammatory drugs use in patients with chronic kidney disease are often prescribed from different clinicans than those web diagnosed them Previously-initiated hemodialysis as prognostic factor for in-hospital mortality in pneumonia patients with stage 5 chronic kidney disease: Retrospective database study o Japanese hospitals	NDB JMDC DPC f		Nationwide Nationwide	:	2011 2014	diseases 2011 Medical treatment status 2017 Medical treatment status 2016 Clinical epidemiology, course of		Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system		kidney disease chronic kidney disease, NSAIDs chronic kidney disease	Others	aged ≥20 years aged ≥18 years
Kikuchi 2018 Hagiwara 2017 Imai 2020 Takada 2019 Takada 2020	Short-term prognosis of emergently hospitalized dialysis-independent chronic kidney disease patients: A nationwide retrospective cohort study in Japan The Survey of the Compliance Situation teth Anthibypertensive Therapy Guideline by Analyzing Japanese National Claims Data Nonsteroidal anti-inflammatory dwings use in patients with chronic kidney disease are often prescribed from different clinicians than those who diagnosed them Previoualy-initiated hemodalysis as prognostic factor for in-hospital mortality in perumonia patients with stage 5 chronic kidney disease. Retrospective database study o	NDB JMDC DPC f		Nationwide Nationwide Nationwide	:	2011 2014 2012	diseases 2011 Medical treatment status 2017 Medical treatment status 2016 Clinical epidemiology, course of diseases	Quality of care Clinical epidemiology, course of diseases	Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system		kidney disease chronic kidney disease, NSAIDs	Others Others	aged ≥20 years aged ≥18 years
Kikuchi 2018 Hagiwara 2017 Imai 2020 Takada 2019 Takada 2020	Short-term prognosis of emergently hospitalized dialysis-independent chronic kidney disease patients: A nationwide retrospective cohort study in Japan The Survey of the Compliance Situation to the Antihypertensive Therapy Guideline by Analyzing Japanese National Claims Data Nonsteroidal anti-inflammatory drugs use in patients with chronic kidney disease are often prescribed from different clinicians than those who diagnosed them Previously-initiated hemodialysis as prognostic factor for in-hospital mortality in pneumonia patients with stage 5 chronic kidney disease. Retrospective database study o Japanese hospitals Developing and validating a multivariable prediction model for in-hospital mortality of pneumonia with advanced chronic kidney disease patients: a retrospective analysis using a nationwide database in Japan	NDB JMDC DPC f UPC		Nationwide Nationwide Nationwide	:	2011 2014 2012 2012	diseases 2011 Medical treatment status 2017 Medical treatment status 2016 Clinical epidemiology, course of diseases 2016 Prediction model	Clinical epidemiology, course of diseases	Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system		kidney disease chronic kidney disease, NSAIDs chronic kidney disease chronic kidney disease	Others Others Others	aged ≥20 years aged ≥18 years aged from 18 to 94 year
Kikuchi 2018 Hagiwara 2017 Imai 2020 Takada 2019 Takada 2020	Short-term prognosis of emergently hospitalized dialysis-independent chronic kidney disease patients: A nationwide retrospective cohort study in Japan The Survey of the Compliance Situation to the Antihypertensive Therapy Guideline by Analyzing Japanese National Claims Data Nonsteroidal anti-inflammatory drugs use in patients with chronic kidney disease are often prescribed from different clinicians than those who diagnosed them Previously-initiated hemodialysis as prognostic factor for in-hospital mortality in pneumonia patients with stage 5 chronic kidney disease: Retrospective database study o Japanese hospitals Developing and validating a multivariable prediction model for in-hospital mortality of pneumonia with dwaneed chronic kidney disease patients: a retrospective analysis using the database the spitale mortality of pneumonia with dwaneed chronic kidney disease patients: a retrospective analysis using the database the analysis of the spitale prediction model for in-hospital mortality of pneumonia with dwaneed chronic kidney disease patients: a retrospective analysis using database the prediction patients and the spitale mortality of pneumonia with spitale the spitale prediction model for in-hospital mortality of pneumonia with spitale the spitale prediction model for in-hospital mortality of pneumonia with spitale the spitale prediction model for in-hospital mortality of pneumonia with spitales of the spitale spitales a retrospective analysis using the spitale spitales of the spitale spitales and the spitales and the spitales and the spitales and the spitale spitales and the spita	NDB JMDC DPC f		Nationwide Nationwide Nationwide	:	2011 2014 2012	diseases 2011 Medical treatment status 2017 Medical treatment status 2016 Clinical epidemiology, course of diseases	Clinical epidemiology, course of	Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary	Diseases of the blood and blood- forming organs and certain disorders involving the immune mechanism	kidney disease chronic kidney disease, NSAIDs chronic kidney disease chronic kidney disease	Others Others	aged ≥20 years aged ≥18 years
Kikuchi 2018 Hagiwara 2017 Imai 2020 Takada 2019 Takada 2020 Kimura 2020	Short-term prognosis of emergently hospitalized dialysis-independent chronic kidney disease patients: A nationwide retrospective cohort study in Japan The Survey of the Compliance Situation to the Antihypertensive Therapy Guideline by Analyzing Japanese National Claims Data Nonsteroidal anti-inflammatory drugs use in patients with chronic kidney disease are often prescribed from different clinicians than those who diagnosed them Previously-initiated hemodialysis as prognostic factor for in-hospital mortality in pneumonia patients with stage 5 chronic kidney disease. Retrospective database study o Japanese hospitals Developing and validating a multivariable prediction model for in-hospital mortality of pneumonia with advanced chronic kidney disease patients: a retrospective analysis using a nationwide database in Japan	NDB JMDC DPC f UPC		Nationwide Nationwide Nationwide	:	2011 2014 2012 2012	diseases 2011 Medical treatment status 2017 Medical treatment status 2016 Clinical epidemiology, course of diseases 2016 Prediction model	Clinical epidemiology, course of diseases	Diseases of the genitourinary system Diseases of the genitourinary	forming organs and certain disorders involving the immune mechanism	kidney disease chronic kidney disease, NSAIDs chronic kidney disease chronic kidney disease	Others Others Others	aged ≥20 years aged ≥18 years aged from 18 to 94 year
Kikuchi 2018 Hagiwara 2017 Imai 2020 Takada 2019 Takada 2020 Kimura 2020 Tohkin 2016	Short-term prognosis of emergently hospitalized dialysis-independent chronic kidney disease patients: A nationwide retrospective cohort study in Japan The Survey of the Compliance Situation to the Antihypertensive Therapy Guideline by Analyzing Japanese National Claims Data Nonsteroidal anti-inflammatory drugs use in patients with chronic kidney disease are often prescribed from different clinicians than those who diagnosed them Previously-initiated hemodialysis as prognostic factor for in-hospital mortality in pneumonia patients with tage 5 chronic kidney disease: Retrospective database study or Japanese hospitals Developing and validating a multivariable prediction model for in-hospital mortality of pneumonia with davaneed chronic kidney disease patients: a retrospective analysis using a nationwide database in Japan Diagnosis Patterns of CKD and Anemia in the Japanese Population	NDB JMDC DPC f DPC g DPC Qthers NDB	JMDC, MDV	Nationwide Nationwide Nationwide Nationwide	:	2011 2014 2012 2012 2008	diseases 2011 Medical treatment status 2017 Medical treatment status 2016 Clinical epidemiology, course of diseases 2016 Prediction model 2017 Medical treatment status	Clinical epidemiology, course of diseases Quality of care	Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system Diseases of the genitourinary system	forming organs and certain disorders involving the immune mechanism Diseases of the circulatory system	kidney disease chronic kidney disease chronic kidney disease chronic kidney disease anemia, chronic kidney disease	Others Others Others	aged ≥20 years aged ≥18 years aged from 18 to 94 year

	Cardiovascular and Renal Outcomes Associated With Hyperkalemia in Chronic Kidney Disease: A Hospital-Based Cohort Study	MDV		Nationwide	2008	2018 Clinical epidemiology, course of diseases		Diseases of the genitourinary system	Endocrine, nutritional and metabolic diseases	CKD, hyperckalemia	Others	aged ≥18 years
Kusama 2021	Epidemiology of antibiotic treatment for uncomplicated cystitis in adults in Japan	JMDC		Nationwide	2013	2016 Medical treatment status		Diseases of the genitourinary system		acute cystitis	Others	aged ≥15 years
Sugihara 2012	Admissions related to interstitial cystitis in Japan: an estimation based on the Japanese diagnosis procedure combination database	DPC		Nationwide	2007	2009 Clinical epidemiology, course of diseases		Diseases of the genitourinary system		interstitial cystitis (N301)		
Onoue 2016	[Evaluation of regional differences in health care costs for patients undergoing hamodialysis within the Fukuoka Prefecture Wide-Area Association of Latter-Stage Elderly Healthcare]	NHI/LSEHS	Fukuoka Prefecture Wide-Area Association of Latter- Stage Elderly Healthcare data	Prefecture	Fukuoka 2013	2014 Health economics	Socioeconomic comparison	Diseases of the genitourinary system		hemodialysis	Older persons	Latter-Stage Elderly Healthcare data
Nakamoto 2019	[Medical expenses reduction effect by peritoneal dialysis promotion in elderly patients]	MDV	noninal cata	Nationwide	2015	Health economics	Health policy evaluation and utilization	Diseases of the genitourinary system		dialysis		
Yokoyama 2018	[Compliance and persistence of oral calcimimetics in maintenance hemodialysis patients a pharmacoepidemiological study utilizing electronic health records]	: MDV		Nationwide	2009	2015 Patient health service utilization		Diseases of the genitourinary system		maintenance hemodialysis patients		
Saruwatari 2012	[Regional variations in healthcare services for patients treated by hemodialysis in Fukuoka]	NHI/LSEHS	National Health Insurance Association of Fukuoka	Prefecture	Fukuoka 2009	2010 Clinical epidemiology, course of diseases	Socioeconomic comparison	Diseases of the genitourinary system		hemodialysis		
Kinoshita 2018	Hospital-Volume Effects on Perioperative Outcomes in Peritoneal Dialysis Catheter Implantation: Analysis of 2,505 Cases	DPC		Nationwide	2007	2012 Intervention effect	Health policy evaluation and utilization	Diseases of the genitourinary system		peritoneal dialysis catheter implantation		
Mandai 2018	Dialysis Case Volume Associated With In-Hospital Mortality in Maintenance Dialysis Patients	DPC		Nationwide	2012	2014 Clinical epidemiology, course of diseases	Health policy evaluation and utilization	Diseases of the genitourinary system		dialysis	Others	aged ≥20 years
Shinkawa 2019	Mortality and morbidity after pancreatoduodenectomy in patients undergoing hemodialysis: Analysis using a national inpatient database	DPC		Nationwide	2010	2015 Clinical epidemiology, course of diseases	Intervention effect	Diseases of the genitourinary system	Diseases of the digestive system	dialysis, pancreatoduodenectomy	Others	aged ≥20 years
Akiyama 2017	Evaluation of the treatment patterns and economic burden of dysmenorrhea in Japanese women, using a claims database	JMDC		Nationwide	2009	2014 Medical treatment status	Health economics	Diseases of the genitourinary system		primary or secondary dysmenorrhea	Others	aged 18-49 years
	Treatment patterns and healthcare resource utilization and costs in heavy menstrual bleeding: a Japanese claims database analysis	JMDC		Nationwide	2009	2014 Medical treatment status	Health economics	Diseases of the genitourinary system		heavy menstrual bleeding	Others	aged 18-49 years
Sugihara 2013	Longer operative time is associated with higher risk of severe complications after percutaneous nephrolithotomy: analysis of 1511 cases from a Japanese nationwide database	DPC		Nationwide	2007	2010 Prediction model	Intervention effect	Diseases of the genitourinary system		ercutaneous nephrolithotomy		
Sugihara 2012	In-hospital outcomes and cost assessment between bipolar versus monopolar transurethral resection of the prostate	DPC		Nationwide	2008	2009 Intervention effect	Health economics	Diseases of the genitourinary system	Others	hyperplasia of the prostate		
Sugihara 2011	Impact of hospital volume and laser use on postoperative complications and in-hospital mortality in cases of benign prostate hyperplasia	DPC		Nationwide	2006	2008 Intervention effect	Health policy evaluation and utilization	Diseases of the genitourinary system		Benign Prostate Hyperplasia		
Takayama 2012	Pharmacoeconomic evaluation of combination therapy with dutasteride and α l blocker for treatment of benign prostatic hyperplasia in Japan	MDV	CombAT Study data	Nationwide	15 2008 hospital	2009 Health economics		Diseases of the genitourinary system		benign prostatic hyperplasia		
Shinkawa 2020	Risk factors of venous thromboembolism in patients with nephrotic syndrome: a retrospective cohort study	MDV		Nationwide	2008	2017 Clinical epidemiology, course of diseases		Diseases of the genitourinary system		nephrotic syndrome (N04.x)	Others	>18 years of age
Zaitsu 2018	Impact of a direct-to-consumer information campaign on prescription patterns for overactive bladder	JMDC		Nationwide	2010	2014 Medical treatment status	Health policy evaluation and utilization	Diseases of the genitourinary system		overactive bladder	Others	aged 20 years or olde
Kato 2017	Persistence and adherence to overactive bladder medications in Japan: A large nationwide real-world analysis	Others	JMDC, Medi-Trend (pharmacy claims database provided by Kyowa Kikaku)	Nationwide	2012	2014 Patient health service utilization		Diseases of the genitourinary system		overactive bladder	Others	aged ≤75 years
Yoshida 2018	Anticholinergic burden in the Japanese elderly population: Use of antimuscarinic medications for overactive bladder patients	Others	Medi-Trend (Kyowa Kikaku)	Nationwide	2016	2016 Medical treatment status		Diseases of the genitourinary system		overactive bladder	Older persons	aged ≥65 years
Shigemi 2019	Laparoscopic Compared With Open Surgery for Severe Pelvic Inflammatory Disease and Tubo-Ovarian Abscess	DPC		Nationwide	2010	2016 Intervention effect		Diseases of the genitourinary system		pelvic inflammatory disease(N739 and N980) with or without tubi-ovarian abscess(N709)	Others	aged 18 years or olde
Shigemi 2019	Therapeutic Impact of Initial Treatment for Chlamydia trachomatis Among Patients With Pelvic Inflammatory Disease: A Retrospective Cohort Study Using a National Inpatient Database in Japan	DPC		Nationwide	2010	2016 Intervention effect		Diseases of the genitourinary system		Pelvic inflammatory disease	Others	≥18 year of age
Obinata 2018	Tension-free vaginal mesh surgery versus laparoscopic sacrocolpopexy for pelvic organ prolapse: Analysis of perioperative outcomes using a Japanese national inpatient database	DPC		Nationwide	2014	2015 Intervention effect		Diseases of the genitourinary system		pelvic organ prolapse (N81.x)		
Sugihara 2011	Incidence and clinical features of priapism in Japan: 46 cases from the Japanese diagnosis procedure combination database 2006-2008	DPC		Nationwide	2006	2008 Clinical epidemiology, course of diseases		Diseases of the genitourinary		priapism (N483)		
Shigemi 2020	Effect of Japanese herbal Kampo medicines on live birth rate in women with recurrent pregnancy loss	JMDC		Nationwide	2005	2018 Intervention effect		Diseases of the genitourinary system	Pregnancy, childbirth and the puerperium	recurrent pregnancy loss	Others	aged ≥18 years
Yamamoto 2015	Relationship between hospital volume and hemorrhagic complication after percutaneous renal biopsy: results from the Japanese diagnosis procedure combination database	DPC		Nationwide	2007	2010 Health policy evaluation and utilization		Diseases of the genitourinary system		percutaneous renal biopsy	Others	aged ≥15 years
Sugihara 2012	Renal haemorrhage risk after extracorporeal shockwave lithotripsy: results from the Japanese Diagnosis Procedure Combination Database	DPC		Nationwide	2006	2008 Clinical epidemiology, course of diseases		Diseases of the genitourinary system		renal haemorrhage	Others	excluded under the ap of 15 years
Iwagami 2017	Impact of end-stage renal disease on hospital outcomes among patients admitted to intensive care units: A retrospective matched-pair cohort study	DPC		Nationwide	2011	2011 Clinical epidemiology, course of diseases		Diseases of the genitourinary system		end-stage renal disease	Others	aged ≥20 years
Katsuno 2021	Burden of Renal Events Associated with Nonsteroidal Anti-inflammatory Drugs in Patients with Osteoarthritis and Chronic Low Back Pain: A Retrospective Database Study	JMDC		Nationwide	2009	2018 Intervention effect	Health economics	Diseases of the genitourinary system	Diseases of the musculoskeletal system and connective tissue	renal disease, osteoarthritis and chronic low back pain	Others	≥18 years of age
Doi 2017	Associations of Polyethylenimine-Coated AN69ST Membrane in Continuous Renal Replacement Therapy with the Intensive Care Outcomes: Observations from a Claims Database from Japan	MDV		Nationwide	2014	2015 Intervention effect		Diseases of the genitourinary system		receiving continuous renal replacement therapy	Others	age at baseline ≥18 years
Miyamoto 2019	Temporal change in characteristics and outcomes of acute kidney injury on renal replacement therapy in intensive care units: analysis of a nationwide administrative database in Japan, 2007-2016	DPC		Nationwide	2007	2016 Clinical epidemiology, course of diseases	Intervention effect	Diseases of the genitourinary system		acute kidney injury on renal replacement therapy	Others	aged ≥18 years

Obata 2021	The clinical usage of liposomal amphotericin B in patients receiving renal replacement	MDV		Nationwide		2008	2018 Medical treatment status	Intervention effect	Diseases of the genitourinary	Others	broad-spectrum antifungal drug (renal	Others	≥18 year of age
00818 2021	the clinical bage of iposonal ampiotencies of in patients receiving renal replacement therapy in Japan: a nationwide observational study	NID V		Nationwide		2000	2010 Medical reachent status	Intervention enect	system	otileis	replacement therapy)	Others	210 year of age
Sugihara 2013	A nomogram predicting severe adverse events after ureteroscopic lithotripsy: 12 372	DPC		Nationwide		2007	2010 Prediction model	Intervention effect	Diseases of the genitourinary		ureteroscopic lithotripsy		
A L	patients in a Japanese national series	NULL OF LIG	M. Faller Harris	M	Kashiwa	0010	2013 Intervention effect	Medical treatment status	system		urinary tract infection	011	≥75 vears of age
A00111 2019	Factors associated with long-term urinary catheterisation and its impact on urinary tract infection among older people in the community: a population-based observational study	NHI/LOEHO	term care insurance	Municipality	City,	2012	2013 Intervention effect	wedical treatment status	Diseases of the genitourinary system		umary tract mection	older persons	275 years of age
	in a city in Japan		claims data		Chiba								
					Prefectu								
Imatob 2019	Association between dipeptidyl peptidase-4 inhibitors and urinary tract infection in	NHI/LSEHS	Wide - Area	Prefecture	re Fukuoka	2010	2016 Intervention effect		Diseases of the genitourinary		urinary tract infections (UTI)	Older percept	aged 75 and over
111810112010	elderly patients: A retrospective cohort study	NIII/ESEIIS	Association of Latter	Trefecture	prefectu	2010	2010 Intervention enect		system		annary fract milections (011)	order persons	aged 75 and over
			- Stage Elderly		re								
			Healthcare										
Muramatsu 2018	Efficacy of Antimicrobial Catheters for Prevention of Catheter-Associated Urinary Tract Infection in Acute Cerebral Infarction	DPC		Nationwide		2012	2014 Intervention effect		Diseases of the genitourinary system	Diseases of the circulatory system	Catheter-associated urinary tract infection, cerebral infarction		
		DPC		Nationwide		2008	2012 Medical treatment status		Diseases of the genitourinary		upper urinary urolithiasis		
	Diagnosis Procedure Combination Database								system				
	r, childbirth and the puerperium (000-099)												
Shigemi 2019	Safety of Laparoscopic Surgery for Benign Diseases during Pregnancy: A Nationwide Retrospective Cohort Study	DPC		Nationwide		2010	2016 Intervention effect		Pregnancy, childbirth and the		abdominal surgery during pregnancy	Others	aged 13 to 53 years
Maeda 2021	Cesarean delivery rates for overall and multiple pregnancies in Japan: A descriptive study	V NDB		Nationwide		2014	2014 Medical treatment status	Socioeconomic comparison	puerperium Pregnancy, childbirth and the		Cesarean delivery		age group
Midedia Eoffi	using nationwide health insurance claims data	, 100		The common		2014	2014 Wedlebriteathent States	oodoccononne companioon	puerperium		ocoarcan denvery		080 8:000
Maeda 2018	Cesarean section rates and local resources for perinatal care in Japan: A nationwide	NDB	Aggregated data	Nationwide		2013	2013 Medical treatment status	Socioeconomic comparison	Pregnancy, childbirth and the		Cesarean section		age group
41 . 0010	ecological study using the national database of health insurance claims	000		AL. 15. 1. 1.1		0010	0010 1.1		puerperium				
Abe 2018	Association between mode of anaesthesia and severe maternal morbidity during admission for scheduled Caesarean delivery: a nationwide population-based study in	DPC		Nationwide		2010	2013 Intervention effect		Pregnancy, childbirth and the puerperium		severe maternal morbidity, caesarean delivery		
	Japan, 2010-2013								puerperium				
Ishikawa 2018	Antihypertensives prescribed for pregnant women in Japan: Prevalence and timing	JMDC		Nationwide		2005	2016 Medical treatment status		Pregnancy, childbirth and the	Diseases of the circulatory system	antihypertensives prescribed for pregnant		
	determined from a database of health insurance claims								puerperium		women	A	
Naruse 2021	Placental abruption in each hypertensive disorders of pregnancy phenotype: a	DPC		Nationwide		2010	2018 Clinical epidemiology, course of diseases		Pregnancy, childbirth and the puerperium	Diseases of the circulatory system	Placental abruption, preeclampsia, hypertension	Others	aged 16-49 years
Michihata	retrospective cohort study using a national inpatient database in Japan Safety and effectiveness of Japanese herbal Kampo medicines for treatment of	JMDC		Nationwide		2005	2016 Intervention effect	Health economics	Pregnancy, childbirth and the	Others	pregnant women	Others	aged ≥19 years
2019	hyperemesis gravidarum								puerperium				· ,
Ueda 2020	[Responses to obstetric bleeding: Nationwide trend survey of obstetric critical bleeding	NDB		Nationwide		2010	2018 Clinical epidemiology, course of	Medical treatment status	Pregnancy, childbirth and the		critical obstetrical hemorrhage		
	using a database of information such as health insurance claims and specific health						diseases		puerperium				
Sato 2019	checkups]* Nationwide survey of severe postpartum hemorrhage in Japan: an exploratory study usin	e NDB	Sampling data	Nationwide		2011	2014 Clinical epidemiology, course of	Health policy evaluation and	Pregnancy, childbirth and the		postpartum hemorrhage		
	the national database of health insurance claims	0					diseases	utilization	puerperium				
Isogai 2017	In-hospital management and outcomes in patients with peripartum cardiomyopathy: a	DPC		Nationwide		2007	2014 Clinical epidemiology, course of	Medical treatment status	Pregnancy, childbirth and the		Peripartum cardiomyopathy	Others	aged 16–55 years
	descriptive study using a national inpatient database in Japan						diseases		puerperium				
Shigemi 2021	Association between rehabilitation during hospitalization and perinatal outcomes among pregnant women with threatened preterm birth	DPC		Nationwide		2010	2017 Intervention effect		Pregnancy, childbirth and the puerperium	Certain conditions originating in the perinatal period	threatened preterm birth	Others	aged 13-50 years
Hashimoto	Ophthalmic Corticosteroids in Pregnant Women with Allergic Conjunctivitis and Adverse	JMDC		Nationwide		2005	2018 Intervention effect		Pregnancy, childbirth and the		topical ophthalmic corticosteroids during		
2020	Neonatal Outcomes: Propensity Score Analyses								puerperium	perinatal period	pregnancy and adverse neonatal outcomes		
	nditions originating in the perinatal period (P00-P96) Supplier-induced demand for newborn treatment: evidence from Japan	Others	collecting data from	NUMBER OF STREET		2004	2008 Health economics	Health policy evaluation and	Certain conditions originating in the		newborn treatment	Children	newborn
Shigeoka 2014	Suppresentational demand for newborn deatment, evidence non sapan	Others	Japanese insurance	Nationwide		2004	2000 Health economics	utilization	perinatal period		newborn creatment	Gilligren	newborn
			claims (introduction										
			of the partial										
			prospective payment										
Maeda 2021	Trends in intensive neonatal care during the COVID-19 outbreak in Japan	MDV	system)	Nationwide		2019	2020 Medical treatment status	COVID-19	Certain conditions originating in the		intensive neonatal care	Children	neonate
									perinatal period				
Ogawa 2018		JMDC		Nationwide		2005	2014 Intervention effe	ct	Certain conditions originating in the		benzodiazepine and risk of preterm birth and		
120.0	case-control study using a claims database in Japan								perinatal period	Neurodevelopmental disorders	low birth weight		
Ono 2015	I malformations, deformations and chromosomal abnormalities (Q00-Q99) Effect of Hospital Volume on Outcomes of Surgery for Cleft Lip and Palate	DPC		Nationwide		2010	2013 Health policy evaluation and	Health economics	Congenital malformations,		Cleft lip and cleft palate	Children	children
200 2010		515		. 101/01/11/00		2010	utilization	antin econoriffica	deformations and chromosomal		une ordre parace	Januar dit	
									abnormalities				
Lin 2020	Diagnosis and medical care for congenital cytomegalovirus infection: An observational	JMDC		Nationwide		2010	2017 Medical treatment status	Quality of care	Congenital malformations,		congenital cytomegalovirus (ICD-10 code	Children	newborn
	study using claims data in Japan, 2010 to 2017								deformations and chromosomal abnormalities		P35.1)		
Ishikawa 2021	Validity of congenital malformation diagnoses in healthcare claims from a university	Others	inpatient and	Others	Tohoku	2015	2015 Research methodology		Congenital malformations,		Congenital malformations (Q00-Q89)	Children	infants
			outpatient claims		Universi				deformations and chromosomal				
	hospital in Japan		from a university		ty				abnormalities				
	hospital in Japan				Hospital								
	hospital in Japan		hospital, medical										
	hospital in Japan		records (as a gold										
	hospital in Japan Nationwide Increase in Cryptorchidism After the Fukushima Nuclear Accident	DPC		Nationwide		2010	2015 Clinical epidemiology, course of	Others	Congenital malformations,		cryptorchidism	Children	congenital diseases
		DPC	records (as a gold	Nationwide		2010	2015 Clinical epidemiology, course of diseases	Others	deformations and chromosomal		cryptorchidism	Children	congenital disease:
Murase 2018	Nationwide Increase in Cryptorchidism After the Fukushima Nuclear Accident		records (as a gold		-		diseases		deformations and chromosomal abnormalities	Castrin infestions - 1			
Murase 2018		DPC	records (as a gold	Nationwide		2010		Others Medical treatment status	deformations and chromosomal abnormalities Congenital malformations,	Certain infectious and parasitic	cryptorchidism Down syndrome, respiratory syncytial virus	Children Children	
Murase 2018	Nationwide Increase in Cryptorchidism After the Fukushima Nuclear Accident		records (as a gold				diseases		deformations and chromosomal abnormalities	Certain infectious and parasitic diseases			congenital diseases ≤24 months of age
Murase 2018 Kimura 2020	Nationwide Increase in Cryptorchidism After the Fukushima Nuclear Accident Utilization and efficacy of palivizumab for children with Down syndrome [Epidemiology Study of Risk Factors of Severe Respiratory Syncytial Virus Infectious		records (as a gold				diseases 2015 Intervention effect 2015 Clinical epidemiology, course of		deformations and chromosomal abnormalities Congenital malformations, deformations and chromosomal abnormalities Congenital malformations,	diseases Certain infectious and parasitic		Children	congenital diseases ≤24 months of age aged 0-1 years
Murase 2018 Kimura 2020	Nationwide Increase in Cryptorchidism After the Fukushima Nuclear Accident Utilization and efficacy of palivizumab for children with Down syndrome	JMDC	records (as a gold	Nationwide		2007	diseases 2015 Intervention effect		deformations and chromosomal abnormalities Congenital malformations, deformations and chromosomal abnormalities	diseases	Down syndrome, respiratory syncytial virus	Children	≤24 months of age

Ishimaru 2019	Impact of congenital heart disease on outcomes after primary repair of esophageal atresia: a retrospective observational study using a nationwide database in Japan	DPC		Nationwide		2010	2016 Clinical epidemiology, course of diseases		Congenital malformations, deformations and chromosomal abnormalities		esophageal atresia (ICD code: Q390, 391)	Children	neonates (\leq 2 days old)
Fujiogi 2019	Factors affecting successful atropine therapy for infantile hypertrophic pyloric stenosis: a retrospective analysis using a nationwide database in Japan	DPC		Nationwide		2010	2016 Prediction model	Intervention effect	Congenital malformations, deformations and chromosomal abnormalities		infantile hypertrophic pyloric stenosis (Q400)	Children	0–100 days old
Fujiogi 2020	Clinical features, practice patterns and outcomes of omphalocele: a descriptive study using a nationwide inpatient database in Japan	DPC		Nationwide		2010	2016 Clinical epidemiology, course of diseases	Medical treatment status	abnormalities Congenital malformations, deformations and chromosomal abnormalities		Omphalocele (ICD-10 code: Q792)	Children	babies (≤ 2 days old)
Michihata 2016	Hospital volume and mortality due to preterm patent ductus arteriosus	DPC		Nationwide		2010	2013 Health policy evaluation and utilization		Congenital malformations, deformations and chromosomal abnormalities		Preterm patent ductus arteriosus (ICD-10 code Q250)	e: Children	excluded: age >1 year at admission
Nagano 2017	Surgery versus percutaneous transcatheter embolization for pulmonary arteriovenous malformation: Analysis of a national inpatient database in Japan	DPC		Nationwide		2010	2015 Intervention effect		Congenital malformations, deformations and chromosomal abnormalities	Diseases of the circulatory system	pulmonary arteriovenous malformation (ICD-10 code: 128.0))	
Fujiogi 2019	Early Outcomes of Laparoscopic Versus Open Surgery for Urachal Remnant Resection in Children: A Retrospective Analysis Using a Nationwide Inpatient Database in Japan	DPC		Nationwide		2015	2017 Intervention effect		Congenital malformations,	Injury, poisoning and certain other consequences of external causes	urachal remnant, postoperative complications	Children	age: 0-18 years
18) Injury, pois	oning and certain other consequences of external causes (S00-T98)								abhormantes				
Kondo 2019	Characteristics, treatments, and outcomes among patients with abdominal aortic injury in Japan: a nationwide cohort study	n DPC		Nationwide		2010	2017 Clinical epidemiology, course of diseases	Medical treatment status	Injury, poisoning and certain other consequences of external causes		Abdominal aortic injury (ICD-10 code: \$350)	Others	age ≥18 years
Otaka 2021	Association between parenteral nutrition in the early phase and outcomes in patients with abdominal trauma undergoing emergency laparotomy: A retrospective nationwide	DPC		Nationwide		2010	2018 Intervention effect		Injury, poisoning and certain other consequences of external causes		abdominal trauma undergoing emergency laparotomy	Others	age of >18 years
Ohbe 2019	study Extracorporeal membrane oxygenation improves outcomes of accidental hypothermia	DPC		Nationwide		2010	2017 Intervention effect		Injury, poisoning and certain other		accidental hypothermia	Others	aged ≥19 years
	without vital signs: A nationwide observational study								consequences of external causes				
Muramatsu	Epidemiological Study of Hospital Admissions for Food-induced Anaphylaxis using the	DPC		Nationwide		2014	2017 Clinical epidemiology, course of		Injury, poisoning and certain other		anaphylactic shock due to an adverse food		age group
2020	Japanese Diagnosis Procedure Combination Database						diseases	A 10 1	consequences of external causes		reaction (ICD-10 code T78.0)		
Nakajima 2020	Epinephrine autoinjector prescription patterns for severe anaphylactic patients in Japan: A retrospective analysis of health insurance claims data	JMDC		Nationwide		2011	2016 Medical treatment status	Quality of care	Injury, poisoning and certain other consequences of external causes		anaphylaxis		
Okubo 2021	Effects of Glucocorticoids on Hospitalized Children With Anaphylaxis	DPC		Nationwide		2010	2015 Intervention effect	Medical treatment status	Injury, poisoning and certain other		anaphylaxis	Children	younger than 18 years
Yasunaga 2010) Short report: Clinical features of bowel anisakiasis in Japan	DPC		Nationwide		2007	2008 Clinical epidemiology, course of		consequences of external causes Injury, poisoning and certain other	subcutaneous tissue	anisakiasis (ICD code, T810)		
Tsuchiya 2018	Tracheostomy and mortality in patients with severe burns: A nationwide observational	DPC		Nationwide		2010	diseases 2014 Intervention effect		consequences of external causes Injury, poisoning and certain other		severe burns	Others	aged ≥18 years
Tagami 2017	study Antithrombin use and 28-day in-hospital mortality among severe-burn patients: an	DPC		Nationwide		2010	2013 Intervention effect		consequences of external causes		severe burns		
	observational nationwide study								consequences of external causes				
Tagami 2015	Validation of the prognostic burn index: a nationwide retrospective study	DPC	(relationships between PBI and mortality)	Nationwide		2010	2013 Research methodology		Injury, poisoning and certain other consequences of external causes		burn patients		
Endo 2019	Volume-outcome relationship on survival and cost benefits in severe burn injury: a retrospective analysis of a Japanese nationwide administrative database	DPC		Nationwide		2010	2015 Health economics	Health policy evaluation and utilization	Injury, poisoning and certain other consequences of external causes		burn injury		
Matsuo 2020	Age-dependent influence of premorbid underweight status on mortality in severe burn patients: An administrative database study	DPC		Nationwide		2014	2018 Clinical epidemiology, course of diseases		Injury, poisoning and certain other consequences of external causes		burn injuries	Others	18-84 years
Tagami 2016	Prophylactic Antibiotics May Improve Outcome in Patients With Severe Burns Requiring Mechanical Ventilation: Propensity Score Analysis of a Japanese Nationwide Database	DPC		Nationwide		2010	2013 Intervention effect		Injury, poisoning and certain other consequences of external causes		severe burn		
Nakajima 2019	Effect of high-dose vitamin C therapy on severe burn patients: a nationwide cohort study	DPC		Nationwide		2010	2016 Intervention effect		Injury, poisoning and certain other consequences of external causes		burn (ICD-10 codes: T20-T32)	Others	aged ≥15 years
Tagami 2019	Haptoglobin use and acute kidney injury requiring renal replacement therapy among	DPC		Nationwide		2010	2013 Intervention effect		Injury, poisoning and certain other		burn		
Nakajima 2020	patients with severe burn injury: a nationwide database study Hyperbaric oxygen therapy and mortality from carbon monoxide poisoning: A nationwide	DPC		Nationwide		2010	2017 Intervention effect		consequences of external causes Injury, poisoning and certain other		carbon monoxide poisoning (ICD-10 code: T58)	Othors	adult patients
	observational study								consequences of external causes			, outro	dual patients
	Disaster-related carbon monoxide poisoning after the Great East Japan Earthquake, 2011: a nationwide observational study	DPC		Nationwide		2010	2017 Clinical epidemiology, course of diseases	Others	Injury, poisoning and certain other consequences of external causes		CO poisoning		
Chikuda 2014	Mortality and morbidity after high-dose methylprednisolone treatment in patients with acute cervical spinal cord injury: a propensity-matched analysis using a nationwide	DPC		Nationwide		2007	2009 Intervention effect		Injury, poisoning and certain other consequences of external causes		cervical spinal cord injury (SCI)(ICD-10 code: S141)		
Ohbe 2018	administrative database Cholinergic Crisis Caused by Cholinesterase Inhibitors: a Retrospective Nationwide	DPC		Nationwide		2010	2016 Intervention effect		Injury, poisoning and certain other		cholinergic crisis (T44.0)		age categories
	Database Study								consequences of external causes				
Toi 2018	Present epidemiology of chronic subdural hematoma in Japan: analysis of 63,358 cases recorded in a national administrative database			Nationwide		2010	2013 Clinical epidemiology, course o disease	5	Injury, poisoning and certain other consequences of external causes		chronic subdural hematoma (S0650)		no restriction on patient age
Okumura 2017	Epidemiology of overdose episodes from the period prior to hospitalization for drug poisoning until discharge in Japan: An exploratory descriptive study using a nationwide	NDB		Nationwide		2012	2013 Clinical epidemiology, course of diseases	Medical treatment status	Injury, poisoning and certain other consequences of external causes		overdose episodes (defined as an initial definitive diagnosis of drug poisoning (ICD10:		
	claims database										T360-T509))		
Kanehara 2016	 [Psychiatric intervention and repeated admission to emergency centers due to drug overdose] 	DPC	DPC Study Group	Nationwide		2010	2013 Intervention effect	t	Injury, poisoning and certain other consequences of external causes		psychiatric intervention, drug overdose	Others	aged ≥12 years
Okumura 2012	Characteristics, procedural differences, and costs of inpatients with drug poisoning in acute care hospitals in Japan	DPC		Nationwide		2008	2008 Medical treatment statu	s Health economic	cs Injury, poisoning and certain other consequences of external causes		drug poisoning	Others	aged 12 or above
Matsuda 2016	[An analysis of the utilization of medical care services for femoral neck fracture patients	NHI/LSEHS	medical insurance claims and LTC	Municipality	A municip	2010	2013 Health economics	Health policy evaluation and utilization	Injury, poisoning and certain other consequences of external causes		femoral neck fracture		
	using the comprehensive medical care database]*		claims and LTC insurance claims data		ality in			uunzauon	consequences of external causes				
Tsuda 2014	Effects of fondaparinux on pulmonary embolism following hemiarthroplasty for femoral neck fracture: a retrospective observational study using the Japanese Diagnosis	DPC		Nationwide	Fukuoka	2007	2010 Intervention effect		Injury, poisoning and certain other consequences of external causes		femoral neck fractrue (\$72.0)		
Hara 2020	Procedure Combination database [Assessment of early surgery for hip fracture from the diagnosis procedure combination	MDV		Nationwide		2017	2017 Intervention effect	Health economics	Injury, poisoning and certain other		fracture of the femur	Older nersons	aged ≥65 years
	database]								consequences of external causes				0 /

Nishioka 2020												
	D Body mass index and recovery of activities of daily living in older patients with femoral fracture: An analysis of a national inpatient database in Japan	JMDC	Japan Medical Data Center (JMDC)	Nationwide		2014	2017 Clinical epidemiology, course of diseases		Injury, poisoning and certain other consequences of external causes	acute femoral fracture	Older persons	aged ≥65 years
	tracture: An analysis of a national inpatient database in Japan		Diagnosis Procedure				diseases		consequences of external causes			
			Combination (DPC)									
			database									
Tanaka 2016	Validation Study of Claims-based Definitions of Suspected Atypical Femoral Fractures Using Clinical Information	Others	claims databases, electronic medical	Others	three hospital	2010	2012 Research methodology		Injury, poisoning and certain other	atypical femoral fractures		
	Using Clinical Information		electronic medical record databases		hospital				consequences of external causes			
Tanaka 2012	[An investigation of factors affecting in-hospital mortality of proximal femoral fracture	DPC	DPC Study Group	Nationwide	3	2007	2009 Clinical epidemiology, course of		Injury, poisoning and certain other	fracture of the neck of the femur,	Older persons	excluded <60 years old
	using the DPC database]*						diseases		consequences of external causes	pertrochanteric fractur (S72.0 S72.1)		-
Hayashi 2019	Data regarding fracture incidence according to fracture site, month, and age group	NDB		Others	Kanto	2013	2016 Clinical epidemiology, course of	Research methodology	Injury, poisoning and certain other	fracture		
11	obtained from the large public health insurance claim database in Japan Variation in fracture risk by season and weather: A comprehensive analysis across age	NDD		Others	area Kanto	2013	diseases 2016 Clinical epidemiology, course of		consequences of external causes Injury, poisoning and certain other	fracture		
Hayashi 2019	and fracture risk by season and weather: A comprehensive analysis across age and fracture site using a National Database of Health Insurance Claims in Japan	NDB		Uthers	area	2013	2016 Clinical epidemiology, course of diseases		injury, poisoning and certain other consequences of external causes	tracture		
lihara 2016	Polypharmacy of medications and fall-related fractures in older people in Japan: a	NDB	Sampling data	Nationwide	arca	2011	2012 Clinical epidemiology, course of	Medical treatment status	Injury, poisoning and certain other	fall-related fractures	Older persons	aged ≥65 years
	comparison between driving-prohibited and driving-cautioned medications						diseases		consequences of external causes		-	
1	Characteristics of heat-illness patients in Japan : Analysis from receipt data for the past			Nationwide		2010	2014 Clinical epidemiology, course of		Injury, poisoning and certain other	heatstroke		
Jamal 2020	Multilevel analysis of hemodialysis-associated infection among end-stage renal disease	NHI/LSEHS		Prefecture	Fukuoka	2015	2017 Clinical epidemiology, course of	Socioeconomic comparison	Injury, poisoning and certain other	hemodialysis-associated infection	Older persons	≥65 years of age
	patients: results of a retrospective cohort study utilizing the insurance claim data of Fukuoka Prefecture. Japan		Association of Latter Stage Elderly				diseases		consequences of external causes			
	rukuoka rielecture, Japan		Healthcare									
Yamazaki 2020	20 [The effect of rehabilitation to the patient with osteosynthesis of the proximal femoral	DPC		Nationwide		2013	2014 Intervention effect		Injury, poisoning and certain other	hip fracture	Others	aged ≥15 years
	fractures]								consequences of external causes			
Maki 2019	Impact of Number of Drug Types on Clinical Outcome in Patients with Acute Hip Fracture	3 JMDC		Nationwide		2014	2017 Intervention effect		Injury, poisoning and certain other	acute hip fracture (ICD-10 code: \$70)	Older persons	aged ≥65 years
F I I 0010		MDV		Nationwide		2017	2017 Health economics		consequences of external causes Injury, poisoning and certain other	Hip fracture	Others	aged <65 years
Fukuda 2019	[Surgery for hip fracture within 36 hours of injury requires additional emergency care management Analysis of 2017 DPC data]*	MDV		Nationwide		2017	2017 Health economics		injury, poisoning and certain other consequences of external causes	HIP fracture	Uthers	aged <ob td="" years<=""></ob>
Mori 2018	Estimated expenditures for hip fractures using merged healthcare insurance data for	NHI/LSEHS	healthcare insurance	Municipality	City of	2012	2013 Health economics		Injury, poisoning and certain other	hip fracture	Older persons	aged ≥75 years
	individuals aged >= 75 years and long-term care insurance claims data in Japan		and long-term care		Kashiwa				consequences of external causes			
			insurance claims data	9								
T		DPC		Nationwide		2011	0014 14 5 11 11 11 11	<u>^</u>	The second s	Market and the	Others	
Tomioka 2018	8 Equality of treatment for hip fracture irrespective of regional differences in socioeconomic status: Analysis of nationwide hospital claims data in Japan	DPC		Nationwide		2011	2014 Medical treatment status	Socioeconomic comparison	Injury, poisoning and certain other consequences of external causes	hip fracture	Others	aged ≥40 years
Matsuda 2020	0 [Big data analysis of medical and nursing care: An analysis of the usage of medical and	NHI/LSEHS	medical insurance	Others	A	2012	2016 Clinical epidemiology, course of	Health policy evaluation and	Injury, poisoning and certain other	hip fracture	Older persons	older patients
	nursing care services of elderly hip fracture patients using consolidated data on health		claims and LTC		municip		diseases	utilization	consequences of external causes			
	insurance claims in medical and nursing care]*		insurance claims data	а	ality in							
					Western							
Nishi 2019	A				Japan		2016 Intervention effect			1. (
Nishi 2019	Comparison of regional with general anesthesia on mortality and perioperative length of stay in older patients after hip fracture surgery	NHI/LSEHS	Fukuoka Prefecture Regional Association	Prefecture	Fukuoka Prefectu	2012	2016 Intervention effect		Injury, poisoning and certain other consequences of external causes	hip fracture surgery (\$72.0-2)	Older persons	Older People
	stay in order patients after hip fracture surgery		for Late-Stage		re				consequences of external causes			
			Healthcare for Older		10							
			People									
Nishi 2018	Association Between Financial Incentives for Regional Care Coordination and Health	NHI/LSEHS		Prefecture	Fukuoka	2010	2016 Health economics	Health policy evaluation and	Injury, poisoning and certain other	hip fracture	Older persons	75 years or older
	Care Resource Utilization Among Older Patients after Femoral Neck Fracture Surgery: A		Regional Association					utilization	consequences of external causes			
	Retrospective Cohort Study Using a Claims Database		for Late-Stage Healthcare for Older									
			People									
Shoda 2012	Risk factors affecting inhospital mortality after hip fracture: retrospective analysis using	DPC		Nationwide		2007	2009 Clinical epidemiology, course of	Intervention effect	Injury, poisoning and certain other	single hip fracture	Others	aged ≥60 years
	the Japanese Diagnosis Procedure Combination Database											
Ogawa 2021							diseases		consequences of external causes			
		DPC		Nationwide		2011	diseases 2016 Clinical epidemiology, course of		consequences of external causes Injury, poisoning and certain other	hip fracture	Older persons	≥65 years of age
	cases using a nationwide inpatient database						diseases 2016 Clinical epidemiology, course of diseases		consequences of external causes Injury, poisoning and certain other consequences of external causes	,	Older persons	≥65 years of age
Mine 2020	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fracture			Nationwide Nationwide		2011 2011	diseases 2016 Clinical epidemiology, course of	Health policy evaluation and	consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other	hip fracture	Older persons	≥65 years of age
Mine 2020	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fractur patients: A retrospective observational study using the Japanese Diagnosis Procedure						diseases 2016 Clinical epidemiology, course of diseases	Health policy evaluation and utilization	consequences of external causes Injury, poisoning and certain other consequences of external causes	,	Older persons	≥65 years of age
Mine 2020 Tamaki 2019	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fractur patients: A retrospective observational study using the Japanese Diagnosis Procedure Combination database	e DPC	Aggregated data				diseases 2016 Clinical epidemiology, course of diseases		consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other	,	Older persons Others	≥65 years of age aged ≥40 years
Tamaki 2019	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fractur patients: A retrospective observational study using the Japanese Diagnosis Procedure Combination database Estimates of hip fracture incidence in Japan using the National Health Insurance Claim Database in 2012-2015	NDB	Aggregated data	Nationwide Nationwide		2011 2012	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases		consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes	hip fracture		aged ≥40 years
Tamaki 2019	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fractur patients: A retrospective observational study using the Japanese Diagnosis Procedure Combination database Estimates of hip fracture incidence in Japan using the National Health Insurance Claim Database in 2012-2015 6 Relationship Between Depressive State and Treatment Characteristics of Acute Cervical	NDB	Aggregated data	Nationwide		2011	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of		consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other	hip fracture hip fracture unspecified injuries of cervical spinal cord (ICD		
Tamaki 2019 Matsuda 2016	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fracture patients: A recorpactive observational study using the Japanese Diagnosis Procedure Combination database Estimates of hip fracture incidence in Japan using the National Health Insurance Claim Database in 2012-2015 6 Relationship Between Depressive State and Treatment Characteristics of Acute Cenvical Spinal Cord Injury in Japan	NDB	Aggregated data	Nationwide Nationwide Nationwide		2011 2012 2010	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of diseases		consequences of external causes Injury, poisoning and certain other consequences of external causes Neurodevelopmental disorders	hip fracture hip fracture unspecified injuries of cervical spinal cord (ICD 10 code; 514.1), depressive state	Others	aged ≥40 years age group
Tamaki 2019	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fractum patients: A retrospective observational study using the Japanese Diagnosis Procedure Combination database Estimates of hip fracture incidence in Japan using the National Health Insurance Claim Database in 2012-2015 6 Relationship Between Depressive State and Treatment Characteristics of Acute Cenvical Spinal Cord Injury in Japan Effectiveness of surgical rib fixation on prolonged mechanical ventilation in patients with	NDB	Aggregated data	Nationwide Nationwide		2011 2012	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of		consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other	hip fracture hip fracture unspecified injuries of cervical spinal cord (ICD 10 code; 514.1), depressive state injuries inducing rib fractures (5223, 5224, or	Others	aged ≥40 years age group excluded younger than
Tamaki 2019 Matsuda 2016 Wada 2015	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fracture patients: A recorpactive observational study using the Japanese Diagnosis Procedure Combination database Estimates of hip fracture incidence in Japan using the National Health Insurance Claim Database in 2012-2015 6 Relationship Between Depressive State and Treatment Characteristics of Acute Cenvical Spinal Cord Injury in Japan	NDB	Aggregated data	Nationwide Nationwide Nationwide		2011 2012 2010	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of diseases		consequences of external causes Injury, poisoning and certain other consequences of external causes Neurodevelopmental disorders	hip fracture hip fracture unspecified injuries of cervical spinal cord (ICD 10 code; 514.1), depressive state	Others	aged ≥40 years age group
Tamaki 2019 Matsuda 2016	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fractur patients: A retrospective observational study using the Japanese Diagnosis Procedure Combination database Estimates of hip facture incidence in Japan using the National Health Insurance Claim Database in 2012-2015 6 Relationship Between Depressive State and Treatment Characteristics of Acute Cervical Spinal Cord Injury in Japan Effectiveness of surgical in 6 faction on prolonged mechanical ventilation in patients with traumatic in Bractures: A propensity score-matched analysis	NDB	Aggregated data	Nationwide Nationwide Nationwide Nationwide		2011 2012 2010 2010	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of diseases 2013 Intervention effect	utilization	consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes	hip fracture hip fracture unspecified injuries of carvical spinal cord (ICD 10 code; 514.1), depressive state injuries including rib fractures (S223, S224, or S225)	Others Others	aged ≥40 years age group excluded younger than 20 years
Tamaki 2019 Matsuda 2016 Wada 2015 Aso 2020	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fractur patients: A recorpactive observational study using the Japanese Diagnosis Procedure Combination database Estimates of hip fracture incidence in Japan using the National Health Insurance Claim Database in 2012-2015 6 Relationship Between Depressive State and Treatment Characteristics of Acute Cenvical Spinal Cord injury in Japan Effectiveness of surgical rib fination on prolonged mechanical ventilation in patients with traumatic in finatures: A proponality score-matched analysis Influence of the Fukushima Daiichi Nuclear Power Plant Accident on the Use of Computed Tomography in Children With Mid Head Injuries O Incidence and Ale Distribution of theospitalized Presumptive and Possible Abusive Head	NDB DPC DPC JMDC	Aggregated data	Nationwide Nationwide Nationwide Nationwide		2011 2012 2010 2010	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of diseases 2013 Intervention effect	utilization	consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external cause Injury, poisoning and certain other Consequences of external cause Injury, poisoning and certain other Consequences of external cause Injury poisoning and certain other Consequences of external cause Injury poisoning and certain other Consequences	hip fracture hip fracture unspecified injuries of carvical spinal cord (ICD 10 code; 514.1), depressive state injuries including rib fractures (S223, S224, or S225)	Others Others	aged ≥40 years age group excluded younger than 20 years
Tamaki 2019 Matsuda 2016 Wada 2015 Aso 2020 Yamaoka 2020	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fracture patients: A retrospective observational study using the Japanese Diagnosis Procedure Combination database Estimates of hip fracture incidence in Japan using the National Health Insurance Claim Database in 2012-2015 6 Relationship Between Depressive State and Treatment Characteristics of Acute Cenvical Spinal Cord Injury in Japan Effectiveness of surgical rib fixation on prolonged mechanical ventilation in patients with traumatic rib fractures: A propensity score-matched analysis Influence of the Hushaim Databilit Nuclear Power Plant Accident on the Use of Computed Tomography in Children With Mild Head Injuries 10 Incidence and Age Distribution of Hospitalized Presumptive and Possible Abusive Head Traum and Children Under 12 Awarts John an	NDB DPC JMDC DPC	Aggregated data	Nationwide Nationwide Nationwide Nationwide Nationwide		2011 2012 2010 2010 2008 2010	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of diseases 2013 Intervention effect 2013 Medical treatment status 2013 Clinical epidemiology, course of diseases	utilization	consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences Injury, poisoning and poisoning Consequences Injury, poisoning and poisoning Consequences Injury, poisoning and certain other Consequences Injury, poisoning Consequences Inju	hip fracture hip fracture unspecified injuries of cervical spinal cord (ICD 10 code; S14.1). depressive state injuries including rib fractures (S223, S224, or S225) mild head injuries, use of CT Abusive head trauma	Others Others Children Children	aged ≥40 years age group excluded younger than 20 years patients aged ≤15 years under 36 months old
Tamaki 2019 Matsuda 2016 Wada 2015 Aso 2020 Yamaoka 2020	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fractur patients: A recorpactive observational study using the Japanese Diagnosis Procedure Combination database Estimates of hip fracture incidence in Japan using the National Health Insurance Claim Database in 2012-2015 6 Relationship Between Depressive State and Treatment Characteristics of Acute Cenvical Spinal Cord injury in Japan Effectiveness of surgical rib fination on prolonged mechanical ventilation in patients with traumatic in finatures: A proponality score-matched analysis Influence of the Fukushima Daiichi Nuclear Power Plant Accident on the Use of Computed Tomography in Children With Mid Head Injuries O Incidence and Ale Distribution of theospitalized Presumptive and Possible Abusive Head	NDB DPC DPC JMDC	Aggregated data	Nationwide Nationwide Nationwide Nationwide Nationwide		2011 2012 2010 2010 2008	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of diseases 2013 Intervention effect 2013 Medical treatment status 2013 Clinical epidemiology, course of	utilization	consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other Injury, poisoning and certain other Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other	hip fracture hip fracture unspecified injuries of cervical spinal cord (ICD 10 code; S14.1), depressive state injuries including rib fractures (S223, S224, or S225) mild head injuries, use of CT	Others Others Children	aged ≥40 years age group excluded younger than 20 years patients aged ≤15 years under 36 months old less than or equal to 12
Tamaki 2019 Matsuda 2016 Wada 2015 Aso 2020 Yamaoka 2020 Maeda 2018	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fractum patients: A recorpactive observational study using the Japanese Diagnosis Procedure Combination database Estimates of hip fracture incidence in Japan using the National Health Insurance Claim Database in 2012-2015 6 Relationship Between Depressive State and Treatment Characteristics of Acute Cervical Spinal Cord Injury in Japan Effectiveness of surgical rib fixation on prolonged mechanical ventilation in patients with traumatic rib fractures: A propensity score-matched analysis Influence of the Fukushima Dalick Nuclear Power Plant Accident on the Use of Computed Tomography in Children With Mid Head Injuries 10 Incidence and Age Distribution of Hospitalized Presumptive and Possible Abusive Head Trauma of Children Under 12 Months Old in Japan Satety of Tranexamic Acid During Pediatric Trauma: A Nationwide Database Study	 PPC NDB DPC JMDC DPC DPC 	Aggregated data	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2011 2012 2010 2010 2008 2010 2010	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of diseases 2013 Intervention effect 2013 Medical treatment status 2013 Clinical epidemiology, course of diseases 2014 Intervention effect	utilization Others Socioeconomic comparison	consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Conseq	hip fracture hip fracture unspecified injuries of cervical spinal cord (ICD 10 code; 514.1). depressive state injuries including rib fractures (5223, 5224, or 5225) mild head injuries, use of CT Abusive head trauma pediatric trauma	Others Others Children Children Children	aged ≥40 years age group excluded younger than 20 years patients aged ≤15 years under 36 months old less than or equal to 12 years old
Tamaki 2019 Matsuda 2016 Wada 2015 Aso 2020 Yamaoka 2020	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fracture patients: A retrospective observational study using the Japanese Diagnosis Procedure Combination database Estimates of hip fracture incidence in Japan using the National Health Insurance Claim Database in 2012-2015 6 Relationship Between Depressive State and Treatment Characteristics of Acute Cenvical Spinal Cord Injury in Japan Effectiveness of surgical rib fixation on prolonged mechanical ventilation in patients with traumatic rib fractures: A propensity score-matched analysis Influence of the Huskinim Datilith Nuclear Power Plant Accident on the Use of Computed Tomography in Children With Mild Head Injuries 10 Incidence and Age Distribution of Hospitalized Presumptive and Possible Abusive Head Traum and Children Under 12 Awarts John an	 PPC NDB DPC JMDC DPC DPC 	Aggregated data	Nationwide Nationwide Nationwide Nationwide Nationwide		2011 2012 2010 2010 2008 2010	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of diseases 2013 Intervention effect 2013 Medical treatment status 2013 Clinical epidemiology, course of diseases	utilization	consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other	hip fracture hip fracture unspecified injuries of cervical spinal cord (ICD 10 code; S14.1). depressive state injuries including rib fractures (S223, S224, or S225) mild head injuries, use of CT Abusive head trauma	Others Others Children Children	aged ≥40 years age group excluded younger than 20 years patients aged ≤15 years under 36 months old less than or equal to 12
Tamaki 2019 Matsuda 2016 Wada 2015 Aso 2020 Yamaoka 2020 Maeda 2018	cases using a nationvide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fractum patients: A reconsocrive observational study using the Japanese Diagnosis Procedure Combination database Estimates of hip facture incidence in Japan using the National Health Insurance Claim Database in 2012-2015 6 Relationship Between Depressive State and Treatment Characteristics of Acute Cenvical Spinal Cord Injury in Japan Effectiveness of surgical ring faxition on prolonged mechanical ventilation in patients with traumatic in bractures: A propensity score-matched analysis Influence of the Fukushima Daiichl Nuclear Power Plant Acident on the Use of Computed Tomography in Children With Mild Head Injuries 10 Incidence and Age Distribution of Hospitalized Presumptive and Possible Abusive Head Trauma children Under 12 Months Old in Japan Satety of Transxamic Acid During Pediatric Tarumar: A Nationwide Database Study Development and validation of an ICD-10-based disability predictive index for patients	e DPC NDB DPC JMDC DPC DPC DPC DPC	Aggregated data	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2011 2012 2010 2010 2008 2010 2010	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of diseases 2013 Intervention effect 2013 Medical treatment status 2013 Clinical epidemiology, course of diseases 2014 Intervention effect	utilization Others Socioeconomic comparison Research methodology	consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Conseq	hip fracture hip fracture unspecified injuries of cervical spinal cord (ICD 10 code; 514.1). depressive state injuries including rib fractures (5223, 5224, or 5225) mild head injuries, use of CT Abusive head trauma pediatric trauma	Others Others Children Children Children	aged ≥40 years age group excluded younger than 20 years patients aged ≤15 years under 36 months old less than or equal to 12 years old
Tamaki 2019 Matsuda 2016 Wada 2015 Aso 2020 Yamaoka 2020 Maeda 2018 Wada 2018 Wada 2017	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fracture patients: A retrospective observational study using the Japanese Diagnosis Procedure Combination database Estimates of hip fracture incidence in Japan using the National Health Insurance Claim Database in 2012-2015 Relationship Between Depressive State and Treatment Characteristics of Acute Cervical Spinal Cord Injury in Japan Effectiveness of surgical rib fixation on prolonged mechanical ventilation in patients with traumatic in Bractures: A propensity score-matched analysis Influence of the Fukushima Dailch Nuclear Power Plant Acident on the Use of Computed Tomography in Children With Mild Head Injuries Indiance and Age Distribution of Hospitalized Presumptive and Possible Abusive Head Trauma et Children Utari 12 Months Old in Japan Safety of Transxmine Acid During Pediatric Trauma: A Nationwide Database Study Development and validation of an ICD-10-based disability predictive index for patients admitted to hospitals with trauma	PPC NDB DPC DPC DPC DPC DPC DPC DPC DPC	Aggregated data	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2011 2012 2010 2010 2008 2010 2010 2010	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of diseases 2013 Intervention effect 2013 Medical treatment status 2013 Clinical epidemiology, course of diseases 2014 Intervention effect 2015 Prediction model 2014 Prediction model	utilization Others Socioeconomic comparison Research methodology Clinical epidemiology, course of diseases	consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Conseq	hip fracture hip fracture unspecified injuries of cervical spinal cord (ICD 10 code: S14.1), depressive state injuries including rib fractures (S223, S224, or S225) mild head injuries, use of CT Abusive head trauma pediatric trauma trauma (S00 to T14) injuries	Others Others Children Children Children Others	aged ≥40 years age group excluded younger than 20 years patients aged ≤15 years under 36 months old less than or equal to 12 years old aged ≥15 years age group
Tamaki 2019 Matsuda 2016 Wada 2015 Aso 2020 Yamaoka 2020 Maeda 2018 Wada 2018	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fractur patients: A recorposective observational study using the Japanese Diagnosis Procedure Combination database Estimates of hip fracture incidence in Japan using the National Health Insurance Claim Database in 2012-2015 6 Relationship Between Depressive State and Treatment Characteristics of Acute Cervical Spinal Cod Injury in Japan Effectiveness of surgical rib fixation on prolonged mechanical ventilation in patients with traumatic rib fractures: A propensity score-matched analysis Influence of the Fukushima Datich Nuclear Power Plant Accident on the Use of Computed Tomography in Children With Mid Head Injuries 0 Incidence and Age Distribution of Notopalitar/Det Presumptive and Possible Abusive Head Trauma of Children Under 12 Monthe Old in Japan Safety of Tranexamic Acid During Pediatric Trauma: A Nationwide Database Study Development and validation of an ICD-10-based trauma mortality prediction scoring system using a Japanese national Inpatient database	PPC NDB DPC DPC DPC DPC DPC DPC DPC DPC	Aggregated data	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2011 2012 2010 2010 2008 2010 2010 2010	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of diseases 2013 Intervention effect 2013 Medical treatment status 2013 Clinical epidemiology, course of diseases 2014 Intervention effect 2015 Prediction model 2015 Prediction model 2015 Health policy evaluation and	utilization Others Socioeconomic comparison Research methodology Clinical epidemiology, course of	consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences Injury poisoning and certain other Consequences Injury poison	hip fracture Nip fracture Unspecified injuries of cervical spinal cord (ICD 10 code: S14.1). depressive state Injuries including rib fractures (S223, S224, or S225) mild head injuries, use of CT Abusive head trauma pediatric trauma trauma (S00 to T14)	Others Others Children Children Children	aged ≥40 years age group excluded younger than 20 years patients aged ≤15 years under 36 months old less than or equal to 12 years old aged ≥15 years
Tamaki 2019 Matsuda 2016 Wada 2015 Aso 2020 Yamaoka 2020 Maeda 2018 Wada 2018 Wada 2017	cases using a nationvide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fractun patients: A record control of the stay for hip fractuness of the stay for hip fractuness of regional clinical pathways on postoperative length of stay for hip fractune Combination database Estimates of hip fracture incidence in Japan using the National Health Insurance Claim Database in 2012-2015 6 Relationship Between Depressive State and Treatment Characteristics of Acute Cervical Spinal Cord Injury in Japan Effectiveness of surgical rin fixation on prolonged mechanical ventilation in patients with traumatic rin bractures: A propensity score-matched analysis Influence of the Fukushima Daiicht Nuclear Power Plant Acident on the Use of Computed Tomography in Children With Mil Head head Injuries 10 Incidence and Age Distribution of Hospitalized Presumptive and Possible Abusive Head Trauma of Children Under 12 Months Old in Japan Safety of Tranesamic Acid During Pediatric Trauma: A Nationwide Database Study Development and validation of a nev ICD-10-based trauma mortality prediction scoring system using a Japanese national inpatient database [AND TOTAL HEALTHCARE COST: ANNLYSIG DE JAPANESE NATIONAL	PPC NDB DPC DPC DPC DPC DPC DPC DPC DPC	Aggregated data	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2011 2012 2010 2010 2008 2010 2010 2010	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of diseases 2013 Intervention effect 2013 Medical treatment status 2013 Clinical epidemiology, course of diseases 2014 Intervention effect 2015 Prediction model 2014 Prediction model	utilization Others Socioeconomic comparison Research methodology Clinical epidemiology, course of diseases	consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Conseq	hip fracture hip fracture unspecified injuries of cervical spinal cord (ICD 10 code: S14.1), depressive state injuries including rib fractures (S223, S224, or S225) mild head injuries, use of CT Abusive head trauma pediatric trauma trauma (S00 to T14) injuries	Others Others Children Children Children Others	aged ≥40 years age group excluded younger than 20 years patients aged ≤15 years under 36 months old less than or equal to 12 years old aged ≥15 years age group
Tamaki 2019 Matsuda 2016 Wada 2015 Aso 2020 Yamaoka 2020 Waada 2018 Wada 2018 Wada 2017 Endo 2018	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fracture patients: A recorpactive observational study using the Japanese Diagnosis Procedure Combination database Estimates of hip fracture incidence in Japan using the National Health Insurance Claim Database in 2012-2015 Relationship Between Depressive State and Treatment Characteristics of Acute Cervical Spinal Cord Injury in Japan Effectiveness of surgical rib fixation on prolonged mechanical ventilation in patients: whit traumatic in Bratures: Aropeonality score-matched analysis Influence of the Fukushima Daiicbl Nuclear Power Plant Accident on the Use of Computed Tomography in Children With Mild Head Injuries Indiance of Age Distribution of Hospitalized Presumptive and Possible Abusive Head Trauma of Children Under 12 Months Old in Japan Safety of Tranexamic Acid During Pediatric Trauma: A Nationwide Database Study Development and validation of an ICD-10-based trauma mortality prediction scoring system using Japanese national Impater Haubase [ASGOCATION BETWEEN SEVERE TRAUMA PATIENT VOLUME, SURVIVIAL BENEFIT, AND TOTAL HEAL HCARE COSTS ; ANALYSIS OF JAPANESE NATIONAL ADMINISTRATIVE DATABASE]	e DPC NDB DPC JMDC DPC DPC DPC DPC DPC DPC	Aggregated data	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2011 2012 2010 2010 2008 2010 2010 2010	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of diseases 2013 Intervention effect 2013 Medical treatment status 2013 Clinical epidemiology, course of diseases 2014 Intervention effect 2015 Prediction model 2014 Prediction model 2015 Health policy evaluation and utilization	utilization Others Socioeconomic comparison Research methodology Clinical epidemiology, course of diseases	consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other Consequences Injury, poisoning and certain other Consequences Injury, pois	hip fracture hip fracture unspecified injuries of cervical spinal cord (ICD lo code: S14.1). depressive state Injuries including rib fractures (S223, S224, or S225) mild head injuries, use of CT Abusive head trauma padiatric trauma trauma (S00 to T14) injuries Severe Trauma Patient	Others Others Children Children Others Others	aged ≥40 years age group excluded younger than 20 years patients aged ≤15 years under 36 months old less than or equal to 12 years old aged ≥15 years age group aged ≥16 years
Tamaki 2019 Matsuda 2016 Wada 2015 Aso 2020 Yamaoka 2020 Maeda 2018 Wada 2018 Wada 2017	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fractun patients: A recorpactive observational study using the Japanese Diagnosis Procedure Combination database Estimates of hip facture incidence in Japan using the National Health Insurance Claim Database in 2012-2015 6 Relationship Between Depressive State and Treatment Characteristics of Acute Cervical Spinal Cord Injury in Japan Effectiveness of surgical rib fination on prolonged mechanical ventilation in patients with traumatic rib fractures: A propensity score-matched analysis Influence of the Fukushima Dalick Nuclear Power Plant Accident on the Use of Computed Tomography in Children With Mild Head Injuries 10 Incidence and Age Distribution of Hospitalized Presumptive and Possible Abusive Head Trauma of Children Under 12 Months Old in Japan Safety of Tranexamic Acid During Pediatric Trauma: A Nationwide Database Study Development and validation of a nev ICD-10-based trauma mortality prediction scoring system using Japanese national inpatient database [ASSOCATION DETVERVE SYSTEP TRAUMA PATIENT VOLUME; SURVIVAL BENEFIT, AND TOTAL HEALTHCARE COSTS ; ANALYSIS OF JAPANESE NATIONAL ADMINISTRATIVE DATABASE]	e DPC NDB DPC JMDC DPC DPC DPC DPC DPC DPC	Aggregated data	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2011 2012 2010 2010 2008 2010 2010 2010	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of diseases 2013 Intervention effect 2013 Medical treatment status 2013 Clinical epidemiology, course of diseases 2014 Intervention effect 2015 Prediction model 2015 Prediction model 2015 Health policy evaluation and	utilization Others Socioeconomic comparison Research methodology Clinical epidemiology, course of diseases	consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury poisoning and certain other Consequences of external causes Injury poisoning and certain other Conseque	hip fracture hip fracture unspecified injuries of cervical spinal cord (ICD 10 code; S14.1), depressive state injuries including rib fractures (S223, S224, or S225) mill head injuries, use of CT Abusive head trauma pediatric trauma trauma (S00 to T14) injuries Severe Trauma Patient trauma patients with uncontrolled hemorrhagid	Others Others Children Children Others Others	aged ≥40 years age group excluded younger than 20 years patients aged ≤15 years under 36 months old less than or equal to 12 years old aged ≥15 years age group
Tamaki 2019 Matsuda 2016 Wada 2015 Asc 2020 Yamaoka 2020 Waada 2018 Wada 2018 Wada 2017 Endo 2018	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fracture patients: A recorpactive observational study using the Japanese Diagnosis Procedure Combination database Estimates of hip fracture incidence in Japan using the National Health Insurance Claim Database in 2012-2015 Relationship Between Depressive State and Treatment Characteristics of Acute Cervical Spinal Cord Injury in Japan Effectiveness of surgical rib fixation on prolonged mechanical ventilation in patients: whit traumatic in Bratures: Aropeonality score-matched analysis Influence of the Fukushima Daiicbl Nuclear Power Plant Accident on the Use of Computed Tomography in Children With Mild Head Injuries Indiance of Age Distribution of Hospitalized Presumptive and Possible Abusive Head Trauma of Children Under 12 Months Old in Japan Safety of Tranexamic Acid During Pediatric Trauma: A Nationwide Database Study Development and validation of an ICD-10-based trauma mortality prediction scoring system using Japanese national Impater Haubase [ASGOCATION BETWEEN SEVERE TRAUMA PATIENT VOLUME, SURVIVIAL BENEFIT, AND TOTAL HEAL HCARE COSTS ; ANALYSIS OF JAPANESE NATIONAL ADMINISTRATIVE DATABASE]	e DPC NDB DPC JMDC DPC DPC DPC DPC DPC DPC	Agregated data	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2011 2012 2010 2010 2008 2010 2010 2010	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of diseases 2013 Intervention effect 2013 Medical treatment status 2013 Clinical epidemiology, course of diseases 2014 Intervention effect 2015 Prediction model 2014 Prediction model 2015 Health policy evaluation and utilization	utilization Others Socioeconomic comparison Research methodology Clinical epidemiology, course of diseases	consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other Consequences Injury, poisoning and certain other Consequences Injury, pois	hip fracture hip fracture unspecified injuries of cervical spinal cord (ICD lo code: S14.1). depressive state Injuries including rib fractures (S223, S224, or S225) mild head injuries, use of CT Abusive head trauma padiatric trauma trauma (S00 to T14) injuries Severe Trauma Patient	Others Others Children Children Others Others	aged ≥40 years age group excluded younger than 20 years patients aged ≤15 years under 36 months old less than or equal to 12 years old aged ≥15 years age group aged ≥16 years
Tamaki 2019 Matsuda 2016 Wada 2015 Asc 2020 Yamaoka 2020 Waada 2018 Wada 2018 Wada 2017 Endo 2018	cases using a nationwide inpatient database Effectiveness of regional clinical pathways on postoperative length of stay for hip fractun patients: A recorpactive observational study using the Japanese Diagnosis Procedure Combination database Estimates of hip facture incidence in Japan using the National Health Insurance Claim Database in 2012-2015 6 Relationship Between Depressive State and Treatment Characteristics of Acute Cervical Spinal Cord Injury in Japan Effectiveness of surgical rib fination on prolonged mechanical ventilation in patients with traumatic rib fractures: A propensity score-matched analysis Influence of the Fukushima Dalick Nuclear Power Plant Accident on the Use of Computed Tomography in Children With Mild Head Injuries 10 Incidence and Age Distribution of Hospitalized Presumptive and Possible Abusive Head Trauma of Children Under 12 Months Old in Japan Safety of Tranexamic Acid During Pediatric Trauma: A Nationwide Database Study Development and validation of a nev ICD-10-based trauma mortality prediction scoring system using Japanese national inpatient database [ASSOCATION DETVERVE SYSTEP TRAUMA PATIENT VOLUME; SURVIVAL BENEFIT, AND TOTAL HEALTHCARE COSTS ; ANALYSIS OF JAPANESE NATIONAL ADMINISTRATIVE DATABASE]	e DPC NDB DPC JMDC DPC DPC DPC DPC DPC DPC	Aggregated data	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide		2011 2012 2010 2010 2008 2010 2010 2010	diseases 2016 Clinical epidemiology, course of diseases 2013 Intervention effect 2015 Clinical epidemiology, course of diseases 2010 Clinical epidemiology, course of diseases 2013 Intervention effect 2013 Medical treatment status 2013 Clinical epidemiology, course of diseases 2014 Intervention effect 2015 Prediction model 2014 Prediction model 2015 Health policy evaluation and utilization	utilization Others Socioeconomic comparison Research methodology Clinical epidemiology, course of diseases	consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury, poisoning and certain other Consequences of external causes Injury poisoning and certain other Consequ	hip fracture hip fracture unspecified injuries of cervical spinal cord (ICD 10 code; S14.1). depressive state injuries including rib fractures (S223, S224, or S225) mild head injuries, use of CT Abusive head trauma pediatric trauma trauma (S00 to T14) injuries Severe Trauma Patient trauma patients with uncontrolled hemorrhagic shock	Others Others Children Children Others Others	aged ≥40 years age group excluded younger than 20 years patients aged ≤15 years under 36 months old less than or equal to 12 years old aged ≥15 years age group aged ≥16 years

Sumitani 2011													
	Prevalence of malignant hyperthermia and relationship with anesthetics in Japan: data from the diagnosis procedure combination database	DPC		Nationwide		2006	2008 Intervention effect		Injury, poisoning and certain other consequences of external causes		Malignant Hyperthermia (T883)		
Ono 2016	Impact of Body Mass Index on the Outcomes of Open Reduction for Mandibular Fractures	DPC		Nationwide		2010	2013 Clinical epidemiology, course of diseases	Intervention effect	Injury, poisoning and certain other consequences of external causes		mandibular fracture	Others	aged ≥18 years
Kishimoto 2018	Suspected periprosthetic joint infection after total knee arthroplasty under propofol versus sevoflurane anesthesia: a retrospective cohort study	DPC		Nationwide		2012	2015 Intervention effect		Injury, poisoning and certain other consequences of external causes		Periprosthetic joint infection	Others	exclude age <40
	Impact of systemic steroids on posttonsillectomy bleeding: analysis of 61 430 patients	DPC		Nationwide		2007	2013 Intervention effect		Injury, poisoning and certain other	Others	postoperative bleeding after tonsillectomy	Others	50 years or older were
Ohya 2017	using a national inpatient database in Japan Seasonal Variations in the Risk of Reoperation for Surgical Site Infection Following	DPC		Nationwide		2010	2013 Clinical epidemiology, course of		consequences of external causes Injury, poisoning and certain other		postoperative surgical site infection	Others	excluded aged 20 years or older
Fukuda 2016	Elective Spinal Fusion Surgery Patient-related risk factors for surgical site infection following eight types of	DPC	DPC, JANIS	Nationwide		2007	diseases 2011 Clinical epidemiology, course of		consequences of external causes Injury, poisoning and certain other		Surgical site infections		
	gastrointestinal surgery Perioperative patient safety indicators and hospital surgical volumes	DPC		Nationwide		2008	diseases 2010 Quality of care	Health policy evaluation and	consequences of external causes Injury, poisoning and certain other		perioperative patient		
								utilization	consequences of external causes				
	Does mechanical bowel preparation ameliorate damage from rectal injury in radical prostatectomy? Analysis of 151 rectal injury cases	DPC		Nationwide		2007	2012 Intervention effect		Injury, poisoning and certain other consequences of external causes		rectal injury		
Sugihara 2012	Management trends, angioembolization performance and multiorgan injury indicators of renal trauma from Japanese administrative claims database	DPC		Nationwide		2006	2008 Clinical epidemiology, course of diseases	Medical treatment status	Injury, poisoning and certain other consequences of external causes		renal trauma (ICD-10 code: \$37.0)		
Otaka 2020	Effectiveness of surgical fixation for rib fractures in relation to its timing: a retrospective Japanese nationwide study	DPC		Nationwide		2010	2018 Intervention effect		Injury, poisoning and certain other consequences of external causes		rib fractures (ICD-10 codes; S22.3-S22.5)		
Otaka 2020	Early Versus Late Rib Fixation in Patients With Traumatic Rib Fractures: A Nationwide	DPC		Nationwide		2010	2018 Intervention effect		Injury, poisoning and certain other		rib fractures (ICD-10 codes; S22.3-S22.5)		
Ohya 2015	Study Risks of in-hospital death and complications after fusion surgery in patients with	DPC		Nationwide		2007	2012 Clinical epidemiology, course of	f Intervention effe	consequences of external causes ct Injury, poisoning and certain other	Diseases of the musculoskeletal	Atlantoaxial Subluxation, rheumatoid arthritis	Others	aged 20 years or older
	atlantoaxial subluxation: analysis of 1090 patients using the Japanese Diagnosis Procedure Combination database						disease	S	consequences of external causes	system and connective tissue			
Wada 2018	Impact of hospital volume on mortality in patients with severe torso injury	DPC		Nationwide		2010	2014 Health policy evaluation and utilization		Injury, poisoning and certain other consequences of external causes		severe torso injury	Others	aged ≥15 years
Obikane 2020	Cumulative visits for care of minor injuries are associated with traumatic brain injury in	JMDC		Nationwide		2009	2012 Clinical epidemiology, course of	Others	Injury, poisoning and certain other		minor injuries, traumatic brain injuries	Children	aged ≤36 months
Yamaoka 2020	young children) Impact of Number of Drugs on Rehabilitation Outcomes in Patients after Traumatic Brain	JMDC		Nationwide		2014	diseases 2017 Intervention effect		consequences of external causes Injury, poisoning and certain other		acute traumatic brain injury	Others	not included aged >90
Nishina 2020	Injury: A Retrospective Cohort Study [Investigation of Characteristics and Risk Factors for Death in Elderly People Who	DPC	DPC Study Group	Nationwide		2010	2017 Clinical epidemiology, course of		consequences of external causes Injury, poisoning and certain other		traumatic brain iniury	Older persons	years 65 years old and older
	Suffered from Traumatic Brain Injury Occurred in Hospital]						diseases		consequences of external causes				
Ohbe 2020	Early enteral nutrition in patients with severe traumatic brain injury: a propensity score- matched analysis using a nationwide inpatient database in Japan	DPC		Nationwide		2014	2017 Intervention effect		Injury, poisoning and certain other consequences of external causes		traumatic brain injury	Others	aged ≥16 years
Tagami 2014	Thoracic aortic injury in Japan: Nationwide retrospective cohort study	DPC		Nationwide		2007	2013 Clinical epidemiology, course of diseases	Medical treatment status	Injury, poisoning and certain other consequences of external causes		traumatic thoracic aortic injury	Others	aged ≥ 18 years
Hamasaki	Incidence of clinical vertebral fractures and hip fractures of the elderly (65 years or over)	NHI/LSEHS	National Health	Municipality	Kure	2015	2015 Clinical epidemiology, course of		Injury, poisoning and certain other		vertebral fractures	Older persons	over 65 years of age
2020	population-large-scale data analysis using claim database in Kure City, Hiroshima, Japan		Insurance (NHI) or Senior Elderly Care		City		diseases		consequences of external causes				
Kobata 2020	Effectiveness of Early Rehabilitation for Vertebral Compression Fractures: A	JMDC	System (SECS)	Nationwide		2014	2018 Intervention effect		Iniury, poisoning and certain other		vertebral compression fracture	Older persons	65 years or older
	Retrospective Cohort Study								consequences of external causes				· · · · · · · · · · · · · · · · · · ·
Hamasaki 2020	[Incidence of clinical vertebral fractures and the rate for operation of the elderly in Kure City; large-scale claim database analysis]	NHI/LSEHS	The National Health Insurance system and		Kure City	2015	2015 Clinical epidemiology, course of diseases	Medical treatment status	Injury, poisoning and certain other consequences of external causes		clinical vertebral fractures	Older persons	aged 65 and over
			Late Elders' Health Insurance										
Toba 2017	[Develop a monitoring procedure for cases of bone fractures and intracranial bleeding	DPC		Others	Medical	2012	2015 Research methodology		Injury, poisoning and certain other		Fractures, Intracranial Hemorrhages	Others	
	due to falls based on integrating adverse event data extracted from medical fee information and other data]				Hospital, Tokyo				consequences of external causes				
					Medical								
					and Dental								
					Universi								
19) Others					ty								
	Age-related differences in outcomes and etiologies of acute abdominal pain based on a	DPC		Nationwide		2009					acute abdominal pain (R100)		age groups
				Nationwide			2011 Clinical epidemiology, course of		Others				
	national administrative database					0010	diseases						
Kobayashi 2012	[INVESTIGATION ON EVALUATION OF THE QUALITY OF MEDICAL CARE BASED ON CLINICAL INDICATORS BY THE UTILIZATION OF DIAGNOSIS PROCEDURE			Nationwide		2010			Others Others		medical care at acute care hospitals		
Kobayashi 2012	[INVESTIGATION ON EVALUATION OF THE QUALITY OF MEDICAL CARE BASED ON					2010	diseases	Health policy evaluation and			medical care at acute care hospitals	Children	aged between 0 and 5
Kobayashi 2012	[INVESTIGATION ON EVALUATION OF THE QUALITY OF MEDICAL CARE BASED ON CLINICAL INDICATORS BY THE UTILIZATION OF DIAGNOSIS PROCEDURE COMBINATION DATA] Application of a self-controlled case series study to a database study in children Characterizing the incidence of adverse events of special interest for COVID-19 vaccines	DPC MDV		Nationwide			diseases 2010 Quality of care	Health policy evaluation and utilization COVID-19	Others		medical care at acute care hospitals diarrhea, bronchitis, and eczema related to palivizumab treatment adverse events of special interest for COVID-11		aged between 0 and 5 years age groups
Kobayashi 2012 Ueyama 2014 Li 2021	[INVESTIGATION ON EVALUATION OF THE QUALITY OF MEDICAL CARE BASED ON CLINICAL INDICATORS BY THE UTILIZATION OF DIAGNOSIS PROCEDURE COMBINATION DATA] Application of a self-controlled case series study to a database study in children	DPC MDV	eight countries	Nationwide Nationwide	natinal,	2003	diseases 2010 Quality of care 2011 Research methodology	utilization	Others Others		medical care at acute care hospitals diarrhea, bronchitis, and eczema related to palivizumab treatment		years
Kobayashi 2012 Ueyama 2014 Li 2021	[INVESTIGATION ON EVALUATION OF THE QUALITY OF MEDICAL CARE BASED ON CLINICAL INDICATORS BY THE UTILIZATION OF DIAGNOSIS PROCEDURE COMBINATION DATA] Application of a self-controlled case series study to a database study in children Characterizing the incidence of adverse events of special interest for COVID-19 vaccines across eight countries: a multinational network cohort study	DPC MDV JMDC	eight countries	Nationwide Nationwide	prefectu	2003 2017	diseases 2010 Quality of care 2011 Research methodology 2019 Intervention effect	utilization COVID-19	Others Others Others		medical care at acute care hospitals diarrhea, bronchitis, and eczema related to palivizumab treatment adverge events of special interest for COVID-1 vaccines		years age groups
Kobayashi 2012 Ueyama 2014 Li 2021	INVESTIGATION ON EVALUATION OF THE QUALITY OF MEDICAL CARE BASED ON CLINICAL INDICATORS BY THE UTILIZATION OF DIAGNOSIS PROCEDURE COMBINATION DATA] Application of a self-controlled case series study to a database study in children Characterizing the incidence of adverse events of special interest for COVID-19 vaccines across eight countries: a multinational network cohort study Effect of population inflow and outflow between rural and urban areas on regional	DPC MDV JMDC	eight countries	Nationwide Nationwide		2003 2017	diseases 2010 Quality of care 2011 Research methodology 2019 Intervention effect	utilization COVID-19	Others Others Others		medical care at acute care hospitals diarrhea, bronchitis, and eczema related to palivizumab treatment adverge events of special interest for COVID-1 vaccines		years age groups
Kobayashi 2012 Ueyama 2014 Li 2021	INVESTIGATION ON EVALUATION OF THE QUALITY OF MEDICAL CARE BASED ON CLINICAL INDICATORS BY THE UTILIZATION OF DIAGNOSIS PROCEDURE COMBINATION DATA] Application of a self-controlled case series study to a database study in children Characterizing the incidence of adverse events of special interest for COVID-19 vaccines across eight countries: a multinational network cohort study Effect of population inflow and outflow between rural and urban areas on regional	DPC MDV JMDC	eight countries	Nationwide Nationwide	prefectu ral, second medical	2003 2017	diseases 2010 Quality of care 2011 Research methodology 2019 Intervention effect	utilization COVID-19	Others Others Others		medical care at acute care hospitals diarrhea, bronchitis, and eczema related to palivizumab treatment adverge events of special interest for COVID-1 vaccines		years age groups
Kobayashi 2012 Ueyama 2014 Li 2021 Koizumi 2021	[INVESTIGATION ON EVALUATION OF THE QUALITY OF MEDICAL CARE BASED ON CLINICAL INDICATORS BY THE UTILIZATION OF DIAGNOSIS PROCEDURE COMBINATION AOTAI Application of a self-controlled case series study to a database study in children Characterizing the incidence of adverse events of special interest for COVID-19 vaccines across eight countries: a multinational network cohort study Effect of population inflow and outflow between rural and urban areas on regional antimicrobial use surveillance	DPC MDV JMDC	eight countries Aggregated data	Nationwide Nationwide	prefectu ral, second	2003 2017	diseases 2010 Quality of care 2011 Research methodology 2019 Intervention effect	utilization COVID-19	Others Others Others		medical care at acute care hospitals diarrhea, bronchitis, and eczema related to palivizumab treatment adverge events of special interest for COVID-1 vaccines		years age groups
Kobayashi 2012 Ueyama 2014 Li 2021 Koizumi 2021	INVESTIGATION ON EVALUATION OF THE QUALITY OF MEDICAL CARE BASED ON CLINICAL INDICATORS BY THE UTILIZATION OF DIAGNOSIS PROCEDURE COMBINATION DATA] Application of a self-controlled case series study to a database study in children Characterzing the incidence of adverse events of special interest for COVID-19 vaccines across eight countries: a multinational network cohort study Effect of population inflow and outflow between rural and urban areas on regional antimicrobial use surveillance An alternative index for evaluating AMU and anti-methicillin-resistant Staphylococcus aureus agent use: A study based on the National Database of Health Insurance Claims	DPC MDV JMDC NDB	eight countries Aggregated data	Nationwide Nationwide Nationwide	prefectu ral, second medical	2003 2017 2015	diseases 2010 Quality of care 2011 Research methodology 2019 Intervention effect 2015 Medical treatment status	utilization COVID-19 Socioeconomic comparison	Others Others Others Others		medical care at acute care hospitals diarrhea, bronchitis, and eczema related to palivizumab treatment adverse events of special interest for COVID-1 vaccines antimicrobial consumption		years age groups
Kobayashi 2012 Ueyama 2014 Li 2021 Koizumi 2021 Mita 2021 Hashimoto	[INVESTIGATION ON EVALUATION OF THE QUALITY OF MEDICAL CARE BASED ON CLINICAL INDICATORS BY THE UTILIZATION OF DIAGNOSIS PROCEDURE COMBINATION DATA] Application of a self-controlled case series study to a database study in children Characterizing the incidence of adverse events of special interest for COVID-19 vaccines across eight countries: a multinational network cohort study Effect of population inflow and outflow between rural and urban areas on regional antimicrobial use surveillance An alternative index for evaluating AMU and anti-methicillin-resistant Staphylococcus aureus agent use: A study based on the National Database of Health Insurance Claims and Specific Health Checkups data of Japan Indications and classes of outpatient antibiotic prescriptions in Japan: A descriptive study	DPC MDV JMDC NDB	eight countries Aggregated data	Nationwide Nationwide Nationwide	prefectu ral, second medical	2003 2017 2015	diseases 2010 Quality of care 2011 Research methodology 2019 Intervention effect 2015 Medical treatment status	utilization COVID-19 Socioeconomic comparison	Others Others Others Others		medical care at acute care hospitals diarrhea, bronchitis, and eczema related to palivizumab treatment adverse events of special interest for COVID-1 vaccines antimicrobial consumption		years age groups
Kobayashi 2012 Ueyama 2014 Li 2021 Koizumi 2021 Mita 2021 Hashimoto 2020	[INVESTIGATION ON EVALUATION OF THE QUALITY OF MEDICAL CARE BASED ON CLINICAL INDICATORS BY THE UTILIZATION OF DIAGNOSIS PROCEDURE COMBINATION OATA] Application of a self-controlled case series study to a database study in children Characterizing the incidence of adverse events of special interest for COVID-19 vaccines across eight countries: a multinational network cohort study Effect of population inflow and outflow between rural and urban areas on regional antimicrobial use surveillance An alternative index for evaluating AMU and anti-methicillin-resistant Staphylococcus aureus agent use: A study based on the National Database of Health Insurance Claims and Specific Health Checkups acts of Japan	DPC MDV JMDC NDB NDB	eight countries Aggregated data	Nationwide Nationwide Nationwide Nationwide Nationwide Nationwide	prefectu ral, second medical	2003 2017 2015 2016 2016	diseases 2010 Quality of care 2011 Research methodology 2019 Intervention effect 2015 Medical treatment status 2016 Medical treatment status	utilization COVID-19 Socioeconomic comparison	Others Others Others Others Others		medical care at acute care hospitals diarrhea, bronchitis, and eczema related to palivizumab treatment adverse events of special interest for COVID-1 vaccines antimicrobial consumption antimicrobial consumption		years age groups age category

	The first national survey of antimicrobial use among dentists in Japan from 2015 to 2017 based on the national database of health insurance claims and specific health checkups of Japan	NDB	Aggregated data	Nationwide		2015	2017 Medical treatment status		Others	antimicrobial consumption		
Kinoshita 2019	Nationwide study of outpatient oral antimicrobial utilization patterns for children in Japan (2013-2016)	NDB		Nationwide		2013	2016 Medical treatment status	Health policy evaluation and utilization	Others	antimicrobial consumption	Children	<15 year of age
		DPC	claims data and electronic medical records	Others	National Centre for Global Health and Medicin	2016	2017 Research methodology		Others	antimicrobial use		
Yamasaki 2018	The first report of Japanese antimicrobial use measured by national database based on	NDB	Aggregated data:	Nationwide	e	2011	2013 Research methodology	Medical treatment status	Others	antimicrobial use		age group
	health insurance claims data (2011-2013): comparison with sales data, and trend analysis stratified by antimicrobial category and age group	NDB	sales data previously reported	Nationwide		2011	2013 Research methodology	wedical treatment status	Others	anumciobiai use		age group
Gu 2011	[Outpatient antimicrobial drug use and antimicrobial resistance frequency in Suwa area, Nagano, Japan]	NHI/LSEHS	NHI	Prefecture	Suwa, Nagano prefectu	2009	2010 Medical treatment status		Others	Antimicrobial Drug Use		
	[Study on Prescription Status and Clinical Utility of Injectable Antimicrobial Agents by Retrospective Analysis of Multicenter Medical Cost Accounting Data]	MDV		Nationwide	Te	2006	2010 Medical treatment status	Intervention effect	Others	Antimicrobial Drug Use		
	Investigation on the current status surrounding biologics and the impact of biosimilars on drug cost using real world data]	MDV		Nationwide		2012	2018 Medical treatment status	Health economics	Others	biosimilar		
	[LINEAR REGRESSION MODELS PREDICT HOSPITAL-WIDE BLOOD PRODUCT USE]		QIP	Nationwide		2006	2008 Prediction model	Medical treatment status	Others	blood product use		
	Use of preoperative haemostasis and ABO blood typing tests in children: a retrospective observational study using a nationwide claims database in Japan	JMDC		Nationwide		2012	2018 Medical treatment status		Others	preoperative haemostasis and ABO blood typing tests	Children	aged 1–17 years
	Preoperative Blood Tests Conducted Before Low-Risk Surgery in Japan: A Retrospective Observational Study Using a Nationwide Insurance Claims Database	IMDC		Nationwide		2012	2016 Medical treatment status	Quality of care	Others	preoperative blood tests before low-risk surgery	Others	20-64 years of age
Tarasawa 2019	[A Study on factors related to blood culture performing rate preceding broad-spectrum antimicrobial agent therapy : Analyses of clinical indicators using the DPC data]	DPC	DPCRI	Nationwide		2016	2017 Medical treatment status		Others	Detection of bloodstream infections		
	[Big data analysis of medical and nursing care: An analysis of outpatient functions of chronic hospitals]*	NHI/LSEHS	medical insurance claims and LTC		municip alities in	2015	2015 Health policy evaluation and utilization		Others	Chronic disease	Older persons	Older People
			insurance claims data		Western Japan							
	[Big data analysis of medical and nursing care: An analysis of inpatient functions of chronic hospitals]*	NHI/LSEHS	medical insurance claims (The National Health Insurance system and Late	Others	municip alities in Western Japan	2015	2016 Health policy evaluation and utilization		Others	Chronic disease		
	[Big data analysis of medical and nursing care: An analysis of the structure of sickness of inpatients by classification of long-term care beds]*	NHI/LSEHS	Elders' Health Insurance) medical insurance claims (The National Health Insurance system and Late	Others	municip alities in Western Japan	2015	2015 Medical treatment status	Health policy evaluation and utilization	Others	chronic stage bed	Older persons	Older People
			Elders' Health		Japan							
Imai 2020	Prescription of Colchicine with Other Dangerous Concomitant Medications: A Nation- Wide Survey Using the Japanese Claims Database	JMDC		Nationwide		2014	2017 Medical treatment status		Others	inappropriate colchicine prescriptions		
	Applying a common data model to Asian databases for multinational pharmacoepidemiologic studies: opportunities and challenges	JMDC		Nationwide	Japan, Taiwan, Hong Kong, South Korea, and US		Research methodology	Socioeconomic comparison	Others	multinational pharmacoepidemiologic studies		
	The Prevalence and Characteristics of Older Japanese Adults with Polypharmacy, Based on Regionally Representative Health Insurance Claims Data	NHI/LSEHS	National Health Insurance and Late- stage Elderly Health Insurance	Prefecture	Nagasak i	2016	2016 Medical treatment status	Patient health service utilization	Others	polypharmacy among elderly		
	Drug prescription patterns and factors associated with polypharmacy in $>\!\!1$ million older adults in Tokyo	NHI/LSEHS	Tokyo Metropolitan Association of Medical Care for Senior Citizens	Prefecture	Tokyo	2014	2014 Medical treatment status	Patient health service utilization	Others	polypharmacy in older outpatients	Older persons	aged ≥75 years
Sato 2018	Potentially Inappropriate Medication Prescribing and Risk of Unplanned Hospitalization among the Elderly: A Self-Matched, Case-Crossover Study	MDV		Nationwide		2009	2015 Quality of care		Others	potentially inappropriate medication	Older persons	patients aged 65 years and above
lihara 2014	[Survey of Usage of Medication with Driving with Prohibition or Caution by the National Health Insurance Claims Database in Japan]	NDB	Sampling data	Nationwide		2011	2011 Medical treatment status		Others	prohibitions or cautions on driving	Others	25 years and older
Akazawa 2010	Potentially inappropriate medication use in elderly Japanese patients	JMDC		Nationwide	(5 corporat e health	2006	2007 Quality of care		Others	potentially inappropriate medications	Older persons	aged ≥65 years
					insuranc e societies							
	Lower-dose prescriptions in the post-marketing situation and the influencing factors thereon	MDV		Nationwide	e	2015	2015 Medical treatment status	Health policy evaluation and utilization	Others	lower-dose prescription drugs		

Brauer 2020	Application of a Common Data Model (CDM) to rank the paediatric user and prescription prevalence of 15 different drug classes in South Korea, Hong Kong, Taiwan, Japan and Australia: an observational. descriptive study	JMDC		Nationwide	South Korea, Hong	2009	2013 Medical treatment status	Socioeconomic comparison	Others		prescription prevalence of 15 different drug classes	Children	18 years or younger
	Australia, all'observational, descriptive study				Kong,								
					Taiwan,								
					Japan								
					and								
Seki 2015	[Drug Utilization Study of Potential Drug-drug Interactions using the Sampling Dataset of	NDR	Sampling data	Nationwide	Australia	2011	2012 Medical treatment status		Others		potential drug-drug interactions		
36KI 2013	the National Database of Health Insurance Claim Information]	NDB	Samping uata	Nationwide		2011	2012 Medical treatment status		others		potential drug-drug interactions		
Maeda 2016		NHI/LSEHS	Late Elders' Health	Prefecture	Fukuoka	2010	2013 Health policy evaluation and		Others		eating difficulties (F50: Eating disorders; J69:	Older persons	aged ≥75 years, or tho
	Older Adults: A Retrospective Cohort Study		Insurance				utilization				Pneumonitis due to solids and liquids; R13:		aged 65 to 74 years wi
											Dysphagia; R630: Anorexia; and R633: Feeding		a specific disability
Kondo 2021	Efficacy of Prophylactic Antibiotics during Extracorporeal Membrane Oxygenation: A	DPC		Nationwide		2010	2017 Intervention effect		Others		difficulties) patients receiving ECMO treatment	Others	≥18 year of age
K01100 2021	Nationwide Cohort Study	DFC		Nationwide		2010	2017 Intervention enect		others		patients receiving ECINO treatment	Others	510 Aegu or affe
Aso 2016	In-hospital mortality and successful weaning from venoarterial extracorporeal membrane	DPC		Nationwide		2010	2013 Clinical epidemiology, course of		Others		receiving VA-ECMO (cardiogenic shoc,	Others	aged ≥19 years
	oxygenation: analysis of 5,263 patients using a national inpatient database in Japan						diseases				pulmonary embolism, hypothermia, poisoning,		
									0 .1		or trauma)	0	
Muguruma 2020	Epidemiology and volume-outcome relationship of extracorporeal membrane oxygenation for respiratory failure in Japan: A retrospective observational study using a national	DPC		Nationwide		2010	2018 Intervention effect	Health policy evaluation and utilization	Others		underwent ECMO	Others	aged ≥18 years
2020	administrative database							00028000					
Kondo 2020		DPC		Nationwide		2010	2017 Intervention effect		Others	Diseases of the digestive system	gastrointestinal bleeding (receiving ECMO)	Others	≥18 year of age
	prophylaxis during extracorporeal membrane oxygenation: a propensity score-matched												
	analysis												
Matsuda 201	13 Analysis of Transfer Distance of Emergency Stroke Cases in Kumamoto, Japan	DPC		Prefecture	Kumam oto	2010	2010 Health policy evaluation and utilization		Others		emergency cases by pathology base (neurological, cardiologic, pediatric and injury		
					oto		utilization				(neurological, cardiologic, pediatric and injury cases)		
Kuwahara	[[Outline and problems of DPC system reform] Evaluation of emergency medical care	DPC	hospitals participated	Nationwide		2009	2009 Medical treatment status	Health economics	Others		emergency medicine		
2010	using DPC data]*		in the study group										
Sugitani 2016	6 Postmarketing Benefit-Risk Assessment for Erythropoiesis-Stimulating Agents Using a	MDV		Nationwide		2011	2014 Health policy evaluation and		Others		erythropoietin agents	Others	≥15 years
Sokimoto 201	Health Care Database 10 [RISK-ADJUSTED ASSESSMENT OF FRESH FROZEN PLASMA AND ALBUMIN	DPC	OIP	Nationwide		2006	utilization 2008 Prediction model	Medical treatment status	Others		fresh frozen plasma (FFP) and albumin	Others	adult
JEKINOLO 201	PRODUCT USE IN ACUTE-CARE HOSPITALS IN JAPAN: AN ANALYSIS USING	DIG	Qii	Nacionwide		2000	2000 Trediction model	medical treatment status	others		products	Others	addit
	ADMINISTRATIVE DATA]												
Uchida 2011	Impact of remifentanil introduction on practice patterns in general anesthesia	DPC		Nationwide		2006	2007 Medical treatment status	Health policy evaluation and	Others		general anesthesia		
. <u> </u>								utilization					
Takeda 2019	Utilization of arterial pulse waveform analysis during non-cardiac surgery in Japan: a retrospective observational study using a nationwide claims database	MDV		Nationwide		2014	2016 Medical treatment status		Others		non-cardiac surgery under general anesthesia with an arterial catheter	Others	aged 18 years or older
Takeda 2020		MDV		Nationwide		2014	2016 Intervention effect		Others		patients undergoing high-risk surgery under		
	mortality in high-risk non-cardiac surgeries										general anaesthesia		
Ito 2019	Can income-based co-payment rates improve disparity? The case of the choice between	NHI/LSEHS	Medical Care System	Prefecture	a large	2013	2014 Patient health service utilization	Health policy evaluation and	Others		brand-name drug, generic drug	Older persons	≥75 years of age
	brand-name and generic drugs		of Latter-stage		prefectu			utilization					
Kinoshita 201	19 Effect of tranexamic acid on mortality in patients with haemoptysis: a nationwide study	DPC	Elderly	Nationwide	re	2010							age ≥18 vears
	19 Effect of tanksame acts of mortany in patients with naemopysis, a nation de study 19 Effect of a medical subsidy on health service utilization among schoolchildren: A	NHI/LSEHS	NHI				2017 Intervention offect		Othors		hapmonturin (ICD-10 codo: P042)	Othors	
,				Prefecture	Prefectu	2012	2017 Intervention effect 2017 Health policy evaluation and	Health economics	Others Others		haemoptysis (ICD-10 code: R042) health service expenditure	Others Children	aged 6-11 at baseline
	community-based natural experiment in Japan	NIII/EGENG	INFI	Prefecture	Prefectu re N's	2012	2017 Intervention effect 2017 Health policy evaluation and utilization	Health economics	Others Others		haemoptysis (ICD-10 code: R042) health service expenditure	Others Children	aged 6–11 at baseline
		NIII/EGENG	NEI	Prefecture		2012	2017 Health policy evaluation and	Health economics					aged 6-11 at baseline
		NIII/EGENG		Prefecture	re N's NHI organiza	2012	2017 Health policy evaluation and	Health economics					aged 6–11 at baseline
0	community-based natural experiment in Japan				re N's NHI		2017 Health policy evaluation and utilization		Others		health service expenditure	Children	
Osawa 2020	community-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using	Others	MinaCare	Prefecture	re N's NHI organiza	2012 2013	2017 Health policy evaluation and	Health economics Health economics					aged 6–11 at baseline aged ≥18 years
	community-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data	Others	MinaCare	Nationwide	re N's NHI organiza		2017 Health policy evaluation and utilization 2016 Prediction model	Health economics	Others Others		health service expenditure High-need, high-cost patients	Children	
Osawa 2020 Tanke 2019	community-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data	Others		Nationwide	re N's NHI organiza tion	2013	2017 Health policy evaluation and utilization		Others		health service expenditure	Children	
	community-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data	Others	MinaCare Japanese data came from two prefectures of insurance claims of	Nationwide Prefecture	re N's NHI organiza tion two prefectu res	2013	2017 Health policy evaluation and utilization 2016 Prediction model	Health economics	Others Others		health service expenditure High-need, high-cost patients	Children	
	community-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data	Others	MinaCare Japanese data came from two prefectures of insurance claims of those not currently	Nationwide Prefecture	re N's NHI organiza tion two prefectu	2013	2017 Health policy evaluation and utilization 2016 Prediction model	Health economics	Others Others		health service expenditure High-need, high-cost patients	Children	
	community-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data	Others	MinaCare Japanese data came from two prefectures of insurance claims of	Nationwide Prefecture	re N's NHI organiza tion two prefectu res (Canada ,	2013	2017 Health policy evaluation and utilization 2016 Prediction model	Health economics	Others Others		health service expenditure High-need, high-cost patients	Children	
	community-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data	Others	MinaCare Japanese data came from two prefectures of insurance claims of those not currently	Nationwide Prefecture	re N's NHI organiza tion two prefectu res	2013	2017 Health policy evaluation and utilization 2016 Prediction model	Health economics	Others Others		health service expenditure High-need, high-cost patients	Children	
	community-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data	Others	MinaCare Japanese data came from two prefectures of insurance claims of those not currently	Nationwide Prefecture	re N's NHI organiza tion two prefectu res (Canada , England,	2013	2017 Health policy evaluation and utilization 2016 Prediction model	Health economics	Others Others		health service expenditure High-need, high-cost patients	Children	
	community-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data	Others	MinaCare Japanese data came from two prefectures of insurance claims of those not currently	Nationwide Prefecture	re N's NHI organiza tion two prefectu res (Canada England, German y, Japan, the	2013	2017 Health policy evaluation and utilization 2016 Prediction model	Health economics	Others Others		health service expenditure High-need, high-cost patients	Children	
	community-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data	Others	MinaCare Japanese data came from two prefectures of insurance claims of those not currently	Nationwide Prefecture	re N's NHI organiza tion two prefectu res (Canada England, German y, Japan, the Netherla	2013	2017 Health policy evaluation and utilization 2016 Prediction model	Health economics	Others Others		health service expenditure High-need, high-cost patients	Children	
	community-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data	Others	MinaCare Japanese data came from two prefectures of insurance claims of those not currently	Nationwide Prefecture	re N's NHI organiza tion two prefectu res (Canada England, German y, Japan, the Netherla nds,	2013	2017 Health policy evaluation and utilization 2016 Prediction model	Health economics	Others Others		health service expenditure High-need, high-cost patients	Children	
	community-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data	Others	MinaCare Japanese data came from two prefectures of insurance claims of those not currently	Nationwide Prefecture	re N's NHI organiza tion two prefectu res (Canada England, German y, Japan, the Netherla nds, Spain	2013	2017 Health policy evaluation and utilization 2016 Prediction model	Health economics	Others Others		health service expenditure High-need, high-cost patients	Children	
	community-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data	Others	MinaCare Japanese data came from two prefectures of insurance claims of those not currently	Nationwide Prefecture	re N's NHI organiza tion two prefectu res (Canada England, German y, Japan, the Netherla nds,	2013	2017 Health policy evaluation and utilization 2016 Prediction model	Health economics	Others Others		health service expenditure High-need, high-cost patients	Children	
	community-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data	Others	MinaCare Japanese data came from two prefectures of insurance claims of those not currently	Nationwide Prefecture	re N's NHI organiza tion two prefectu res (Canada England, German y, Japan, the Netherla nds, Spain and the	2013	2017 Health policy evaluation and utilization 2016 Prediction model	Health economics	Others Others		health service expenditure High-need, high-cost patients	Children	
Tanke 2019	ommunity-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data A challenge to all. A primer on inter-country differences of high-need, high-cost patients Disconcerection O [Does income affect medical care and long-term care expenditures for the elderly? :	Others	MinaCare Japanese data came from two prefectures of insurance claims of those not currently employed	Nationwide Prefecture	re N's NHI organiza tion two prefectu res (Canada , England, German y, Japan, the Netherla nds, Spain and the United	2013	2017 Health policy evaluation and utilization 2016 Prediction model	Health economics	Others Others		health service expenditure High-need, high-cost patients	Children	
Tanke 2019	community-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data A challenge to all. A primer on inter-country differences of high-need, high-cost patients	Others Others	MinaCare Japanese data came from two prefectures of insurance claims of those not currently employed	Nationwide Prefecture f	re N's NHI organiza tion two prefectu res (Canada England, German y, Japan, the Netherla nds, Spain and the United States)	2013	2017 Health policy evaluation and utilization 2016 Prediction model 2014 Health economics	Health economics Socioeconomic comparison	Others Others Others		health service expenditure High-need, high-cost patients high-need high-cost patients	Children	aged ≥18 years
Tanke 2019	ommunity-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data A challenge to all. A primer on inter-country differences of high-need, high-cost patients Disconcerection O [Does income affect medical care and long-term care expenditures for the elderly? :	Others Others	MinaCare Japanese data came from two prefectures of insurance claims of those not currently employed National Health Insurance and Later- Stage Elderly	Nationwide Prefecture f	re N's NHI organiza tion two prefectu res (Canada England, German y, Japan, the Netherla nds, Spain and the United States)	2013	2017 Health policy evaluation and utilization 2016 Prediction model 2014 Health economics	Health economics Socioeconomic comparison	Others Others Others		health service expenditure High-need, high-cost patients high-need high-cost patients	Children	aged ≥18 years
Tanke 2019	ommunity-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data A challenge to all. A primer on inter-country differences of high-need, high-cost patients Disconcerection O [Does income affect medical care and long-term care expenditures for the elderly? :	Others Others	MinaCare Japanese data came from two prefectures of insurance claims of those not currently employed National Health Insurance and Later- Stage Elderly Healthcare System,	Nationwide Prefecture f	re N's NHI organiza tion two prefectu res (Canada England, German y, Japan, the Netherla nds, Spain and the United States)	2013	2017 Health policy evaluation and utilization 2016 Prediction model 2014 Health economics	Health economics Socioeconomic comparison	Others Others Others		health service expenditure High-need, high-cost patients high-need high-cost patients	Children	aged ≥18 years
Tanke 2019 Imahori 2019	Community-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data A challenge to all. A primer on inter-country differences of high-need, high-cost patients Operations of the primer on inter-country differences of high-need, high-cost patients P [Does income affect medical care and long-term care expenditures for the elderly? : Evidence from claims data of a municipality in Japan]	Others Others	MinaCare Japanese data came from two prefectures of insurance claims of those not currently employed National Health Insurance and Later- Stage Elderly Healthcare System, long-term care data	Nationwide Prefecture f	re N's NHI organiza tion two prefectu res (Canada England, German y, Japan, the Netherla nds, Spain and the United States) X city	2013	2017 Health policy evaluation and utilization 2016 Prediction model 2014 Health economics	Health economics Socioeconomic comparison Socioeconomic comparison	Others Others Others Others		health service expenditure High-need, high-cost patients high-need high-cost patients medical care expenditures	Others Others	aged ≥18 years
Tanke 2019 Imahori 2019	Community-based natural experiment in Japan Machine-learning-based prediction models for high-need high-cost patients using nationwide clinical and claims data A challenge to all. A primer on inter-country differences of high-need, high-cost patients Operations of the primer on inter-country differences of high-need, high-cost patients P [Does income affect medical care and long-term care expenditures for the elderly? : Evidence from claims data of a municipality in Japan]	Others Others NHI/LSEHS	MinaCare Japanese data came from two prefectures of insurance claims of those not currently employed National Health Insurance and Later- Stage Elderly Healthcare System, long-term care data	Nationwide Prefecture f	re N's NHI organiza tion two prefectu res (Canada England, German y, Japan, the Netherla nds, Spain and the United States)	2013 2014 2014	2017 Health policy evaluation and utilization 2016 Prediction model 2014 Health economics 2015 Health economics	Health economics Socioeconomic comparison	Others Others Others Others		health service expenditure High-need, high-cost patients high-need high-cost patients	Others Others	aged ≥18 years

Akiyama 2017	[Seasonal effects on healthcare costs: Using panel data from medical and long-term care	NHI/LSEHS	NHI and/or MC	Municipality	city A,	2007	2009 Health economics	Clinical epidemiology, course of	Others	healthcare costs C)Ider persons over	r 65 years old
	claim records of the elderly in Hokkaido]		insurance systems for		Hokkaid			diseases				
			the elderly aged over 65 years old, LTC		0							
			insurance data									
liratsuka 2017	[Relationships between medical expenditures and the Specific Health Checkups scheme	NHI/LSEHS	NHI	Municipality	Mishima	2008	2012 Health economics		Others	the annual outpatients medical expenditures		
	in Japan: A Study of outpatient medical expenditures and questionnaire responses				City							
	concerning lifestyle that form part of the Specific Health Checkups scheme in Japan]											
	Patient cost sharing and medical expenditures for the Elderly	JMDC		Nationwide		2005	2013 Health policy evaluation and	Health economics	Others	medical spending C	Ider persons elde	
2016			NHI				utilization		2 .1		72 y	rears old
l'amaki 2014	[Investigation of risk factors for increased medical expenses by matching data on health insurance claims: An analysis of questionnaires and each test item in specific health checkups]*	NHI/LSEHS	NHI	Municipality	Mishima city	2008	2013 Health economics		Others	medical expenditure		
Otsubo 2011	Evaluation of resource allocation and supply-demand balance in clinical practice with	Others	claims data from 16	Nationwide	16	2001	2005 Health policy evaluation and		Others	high-cost technologies (MRI, ESWL)		
	high-cost technologies		sampled hospitals		sampled		utilization					
			(QIP), National Survey of Medical		hospital s (QIP)							
			Care Institutions and		s (QIP)							
			National Patient									
			Survey (MHLW)									
l'omio 2010	[Association between the past health checkup results and health expenditures using the	NHI/LSEHS	NHI	Municipality	а	2006	2007 Health economics		Others	medical expenditure C)thers ageo	d 45–84 years
	National Health Insurance claims data]				municip ality in							
					Kumam							
					oto							
Mitsutake	[Examination of specific health guidance recipients based on specific health checkup	Others	a health insurance	Others	a health	2008	2008 Health economics	Others	Others	special health check-up		
2010	data and medical expense data]*		society and NHI (5 Municipalities)		insuranc e							
			womerpanties/		society							
					and NHI							
					(5							
Mori 2020	Association of long-term care needs, approaching death and age with medical and long-	NUL/LOEUC	insurance claims	Municipality	Municip Soma	2006	2009 Health economics		Others	medical and long-term care expenditures in the C	Nd	d > 65
W011 2020	term care expenditures in the last year of life: An analysis of insurance claims data	NHI/Lacha	(medical and LTC	wunicipality	City	2000	2009 Health economics		Others	last year of life	nder persons agec	u 205 years
			insurance systems)									
			and death certificates									
	Household Income Relationship With Health Services Utilization and Healthcare	NHI/LSEHS	medical and LTC	Municipality	suburba	2012	2013 Socioeconomic comparison	Patient health service utilization	Others	healthcare services utilization C)lder persons agec	175
Halliada 2019	Expenditures in People Aged 75 Years or Older in Japan: A Population-Based Study Using		claims	wunicipality	n city in	2012	2013 Socioeconomic compansion	Patient health service utilization	Others	nearticare services utilization	nder persons agec	u 75 years of older
	Medical and Long-term Care Insurance Claims Data	-			the							
					Tokyo							
Yasui 2016	[Analysis of the inpatient health care costs for the late elderly]	NHI/LSEHS	Fukuoka Prefecture WideArea Association		Fukuoka	2010	2014 Health economics	Socioeconomic comparison	Others	inpatient health care costs C	lder persons ageo	d 75 years and olde
			of LatterStage									
			Elderly Healthcare									
Anzai 2011	[A comparative analysis of medical expenses for elderly people with or without	NHI/LSEHS	National Health	Prefecture	Siga	2008	2008 Health economics		Others	medical expenses for the elderly O	lder persons agec	d 65 years and abo
THEOREO II	certification of long-term care need]*	1111/202110	Insurance, Health	Therefore	0160	2000	2000 Health Continues		oners.	included expenses for the enderty	nder persons agee	
	-		Care System for the									
			Late Elderly						A .(
Hashimoto 2010	Micro data analysis of medical and long-term care utilization among the elderly in Japan	NHI/LSEHS	medical care and LTC by National Health	C Prefecture	in a prefectu	2000	2004 Health economics		Others	cost of end-of-life care for the elderly C	lder persons ageo	d 65 and over
2010			Insurance		re in the							
					Kyushu							
					district							
Noguchi 2010	[[Empirical verification of medical and long-term care policies] Empirical verification	NHI/LSEHS	WAM NET	Municipality	Nakaton	2003	2007 Health economics	Health policy evaluation and	Others	health service utilization		
Noguchi 2010	[[Empirical verification of medical and long-term care policies] Empirical verification based on National Health Insurance claims data of the impact of uneven distribution of medical resources on the range of medical consultations, the number of treatment days,	NHI/LSEHS	WAM NET	Municipality	Nakaton nbetsu- chou	2003	2007 Health economics	Health policy evaluation and utilization	Others	health service utilization		
-	based on National Health Insurance claims data of the impact of uneven distribution of medical resources on the range of medical consultations, the number of treatment days, and medical costs]*		WAM NET	Municipality	nbetsu-			utilization				
-	based on National Health Insurance claims data of the impact of uneven distribution of medical resources on the range of medical consultations, the number of treatment days, and medical costs]* A comparison of disease-specific medical expenditures in Japan using the principal	NHI/LSEHS	WAM NET	Municipality Nationwide	nbetsu-	2003	2007 Health economics 2006 Health economics		Others Others	health service utilization disease-specific medical expenditures		
_	based on National Health Insurance claims data of the impact of uneven distribution of medical resources on the range of medical consultations, the number of treatment days, and medical costs]* A comparison of disease-specific medical expenditures in Japan using the principal diagnosis method and the proportional distribution method	JMDC	WAM NET		nbetsu-			utilization				
Tanihara 2012 Shin 2020	based on National Health Insurance claims data of the impact of uneven distribution of medical resources on the range of medical consultations, the number of treatment days, and medical costs]* A comparison of disease-specific medical expenditures in Japan using the principal diagnosis method and the proportional distribution method. Economic impact of the first wave of the COVID-19 pandemic on acute care hospitals in Japan The Association Between Internet Searches and Moisturizer Prescription in Japan:	JMDC		Nationwide	nbetsu-	2006	2006 Health economics	utilization Research methodology	Others	disease-specific medical expenditures		
Tanihara 2012 Shin 2020 Mimura 2019	based on National Health Insurance claims data of the impact of uneven distribution of medical resources on the range of medical consultations, the number of treatment days, and medical costs]* A comparison of disease-specific medical expenditures in Japan using the principal diagnosis method and the proportional distribution method Ecconomic impact of the first wave of the COVID-19 pandemic on acute care hospitals in Japan The Association Between Internet Searches and Molsturizer Prescription in Japan: Retrospective Observational Study	JMDC DPC JMDC		Nationwide Nationwide Nationwide	nbetsu-	2006 2018 2007	2006 Health economics 2020 COVID-19 2017 Medical treatment status	utilization Research methodology	Others Others Others	disease-specific medical expenditures hospital charges identified heparinoid prescription		4 10
Tanihara 2012 Shin 2020 Mimura 2019	based on National Health Insurance claims data of the impact of uneven distribution of medical resources on the range of medical consultations, the number of treatment days, and medical costs]* A comparison of disease-specific medical expenditures in Japan using the principal diagnosis method and the proportional distribution method. Economic impact of the first wave of the COVID-19 pandemic on acute care hospitals in Japan The Association Between Internet Searches and Moisturizer Prescription in Japan:	JMDC DPC JMDC		Nationwide	nbetsu-	2006	2006 Health economics 2020 COVID-19	utilization Research methodology	Others Others	disease-specific medical expenditures hospital charges		. than 18 years of aj e excluded
Tanihara 2012 Shin 2020 Mimura 2019 Koizumi 2018	based on National Health Insurance claims data of the impact of uneven distribution of medical resources on the range of medical consultations, the number of treatment days, and medical costs]* A comparison of disease-specific medical expenditures in Japan using the principal diagnosis method and the proportional distribution method Economic impact of the first wave of the COVID-19 pandemic on acute care hospitals in Japan The Association Between Internet Searches and Molsturizer Prescription in Japan: Retrospective Observational Study In-Hospital Mortality for Hepatic Portal Venous Gas: Analysis of 1590 Patients Using a Japanese National Inpatient Database	JMDC DPC JMDC DPC	QIP Tokyo Metropolitan	Nationwide Nationwide Nationwide	nbetsu-	2006 2018 2007	2006 Health economics 2020 COVID-19 2017 Medical treatment status 2015 Clinical epidemiology, course of	utilization Research methodology	Others Others Others	disease-specific medical expenditures hospital charges identified heparinoid prescription hepatic portal venous gas (ICD-10 code R93.2) C		e excluded
Tanihara 2012 Shin 2020 Mimura 2019 Koizumi 2018	based on National Health Insurance claims data of the impact of uneven distribution of medical resources on the range of medical consultations, the number of treatment days, and medical costs]* A comparison of disease-specific medical expenditures in Japan using the principal diagnosis method and the proportional distribution method Economic impact of the first wave of the COVID-19 pandemic on acute care hospitals in Japan The Association Between Intermet Searches and Moisturizer Prescription in Japan: Retrospective Observational Study In-Hospital Mortality for Hepatic Portal Venous Gas: Analysis of 1590 Patients Using a Japanese National Inpatient Database	JMDC DPC JMDC DPC	QIP Tokyo Metropolitan Association of	Nationwide Nationwide Nationwide	nbetsu- chou	2006 2018 2007 2010	2006 Health economics 2020 COVID-19 2017 Medical treatment status 2015 Clinical epidemiology, course of diseases	utilization Research methodology	Others Others Others Others Others	disease-specific medical expenditures hospital charges identified heparinoid prescription hepatic portal venous gas (ICD-10 code R93.2) C	were	e excluded
Tanihara 2012 Shin 2020 Mimura 2019 Koizumi 2018	based on National Health Insurance claims data of the impact of uneven distribution of medical resources on the range of medical consultations, the number of treatment days, and medical costs]* A comparison of disease-specific medical expenditures in Japan using the principal diagnosis method and the proportional distribution method Economic impact of the first wave of the COVID-19 pandemic on acute care hospitals in Japan The Association Between Internet Searches and Molsturizer Prescription in Japan: Retrospective Observational Study In-Hospital Mortality for Hepatic Portal Venous Gas: Analysis of 1590 Patients Using a Japanese National Inpatient Database	JMDC DPC JMDC DPC	QIP Tokyo Metropolitan Association of Medical Care	Nationwide Nationwide Nationwide	nbetsu- chou	2006 2018 2007 2010	2006 Health economics 2020 COVID-19 2017 Medical treatment status 2015 Clinical epidemiology, course of diseases 2014 Health policy evaluation and	utilization Research methodology	Others Others Others Others Others	disease-specific medical expenditures hospital charges identified heparinoid prescription hepatic portal venous gas (ICD-10 code R93.2) C	were	e excluded
Tanihara 2012 Shin 2020 Mimura 2019 Koizumi 2018	based on National Health Insurance claims data of the impact of uneven distribution of medical resources on the range of medical consultations, the number of treatment days, and medical costs]* A comparison of disease-specific medical expenditures in Japan using the principal diagnosis method and the proportional distribution method Economic impact of the first wave of the COVID-19 pandemic on acute care hospitals in Japan The Association Between Internet Searches and Molsturizer Prescription in Japan: Retrospective Observational Study In-Hospital Mortality for Hepatic Portal Venous Gas: Analysis of 1590 Patients Using a Japanese National Inpatient Database	JMDC DPC JMDC DPC	QIP Tokyo Metropolitan Association of	Nationwide Nationwide Nationwide	nbetsu- chou	2006 2018 2007 2010	2006 Health economics 2020 COVID-19 2017 Medical treatment status 2015 Clinical epidemiology, course of diseases 2014 Health policy evaluation and	utilization Research methodology	Others Others Others Others Others	disease-specific medical expenditures hospital charges identified heparinoid prescription hepatic portal venous gas (ICD-10 code R93.2) C	were	e excluded
Tanihara 2012 Shin 2020 Mimura 2019 Koizumi 2018 Teramoto 2019	based on National Health Insurance claims data of the impact of uneven distribution of medical resources on the range of medical consultations, the number of treatment days, and medical costs]* A comparison of disease-specific medical expenditures in Japan using the principal diagnosis method and the proportional distribution method Economic impact of the first wave of the COVID-19 pandemic on acute care hospitals in Japan The Association Between Internet Searches and Molsturizer Prescription in Japan: Retrospective Observational Study In-Hospital Mortality for Hepatic Portal Venous Gas: Analysis of 1590 Patients Using a Japanese National Inpatient Database	JMDC DPC JMDC DPC NHI/LSEHS	QIP Tokyo Metropolitan Association of Medical Care Services for Older	Nationwide Nationwide Nationwide	nbetsu- chou	2006 2018 2007 2010	2006 Health economics 2020 COVID-19 2017 Medical treatment status 2015 Clinical epidemiology, course of diseases 2014 Health policy evaluation and	utilization Research methodology	Others Others Others Others Others	disease-specific medical expenditures hospital charges identified heparinoid prescription hepatic portal venous gas (ICD-10 code R93.2) C	were	e excluded
Tanihara 2012 Shin 2020 Mimura 2019 Koizumi 2018 Teramoto 2019	based on National Health Insurance claims data of the impact of uneven distribution of medical resources on the range of medical consultations, the number of treatment days, and medical costs)* A comparison of disease-specific medical expenditures in Japan using the principal diagnosis method and the proportional distribution method Economic impact of the first wave of the COVID-19 pandemic on acute care hospitals in Japan The Association Between Internet Searches and Moisturizer Prescription in Japan: Retrospective Observational Study In-Hospital Mortality for Hepatic Portal Venous Gas: Analysis of 1590 Patients Using a Japaneen Retional Inpatient Database Impact of a national medical fee schedule revision on the cessation of physician home visits among older patients in Tokyo: A retrospective study	JMDC DPC JMDC DPC NHI/LSEHS	QIP Tokyo Metropolitan Association of Medical Care Services for Older Senior Citizens medical insurance	Nationwide Nationwide Nationwide Prefecture Others	nbetsu- chou Tokyo A municip	2006 2018 2007 2010 2014	2006 Health economics 2020 COVID-19 2017 Medical treatment status 2015 Clinical epidemiology, course of diseases 2014 Health policy evaluation and utilization	utilization Research methodology	Others Others Others Others Others Others	disease-specific medical expenditures hospital charges identified heparinoid prescription hepatic portal venous gas (ICD-10 code R93.2) C physician home visits C	were	e excluded
Tanihara 2012 Shin 2020 Mimura 2019 Koizumi 2018 Teramoto 2019	based on National Health Insurance claims data of the impact of uneven distribution of medical resources on the range of medical consultations, the number of treatment days, and medical costs]* A comparison of disease-specific medical expenditures in Japan using the principal diagnosis method and the proportional distribution method Economic Impact of the first wave of the COVID-19 pandemic on acute care hospitals in Japan The Association Between Internet Searches and Moisturizer Prescription in Japan: Retrospective Observational Study In-Hospital Mortality for Hepatic Portal Venous Gas: Analysis of 1590 Patients Using a Japanese National Inpatient Database Dispact of a national medical fee schedule revision on the cessation of physician home visits among older patients in Tokyo: A retrospective study [Big data analysis of medical and nursing care: An analysis of user characteristics by typi	JMDC DPC JMDC DPC NHI/LSEHS	QIP Tokyo Metropolitan Association of Medical Care Services for Older Services for Older Services for Older	Nationwide Nationwide Nationwide Prefecture Others	nbetsu- chou Tokyo	2006 2018 2007 2010 2014	2006 Health economics 2020 COVID-19 2017 Medical treatment status 2015 Clinical epidemiology, course of diseases 2014 Health policy evaluation and utilization	utilization Research methodology	Others Others Others Others Others Others	disease-specific medical expenditures hospital charges identified heparinoid prescription hepatic portal venous gas (ICD-10 code R93.2) C physician home visits C	were	e excluded

Matsuda 2018	[Big data analysis of medical and nursing care: An analysis of the current status of home care management guidance by pharmacists]*	NHI/LSEHS	medical insurance claims and LTC insurance claims dat		A municip ality in	2016	2016 Medical treatment status		Others	home medication management and guidance by pharmacists	Older persons	Older People
					Western							
Matsuda 2018	[Big data analysis of medical and nursing care: An analysis of characteristics of elderly	NHI/I SEHS	medical insurance	Others	Japan A	2015	2015 Health policy evaluation and		Others	home care service	Older persons	Older People
101815008 2010	people requiring home nursing care by frequency of home nursing care]*	NITI/ESENS	claims and LTC	others	municip	2015	utilization		otiera	nome care service	older persons	Older i eopie
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		insurance claims dat	a	ality in							
					Western							
					Japan							
Matsuda 2018	Big data analysis of medical and nursing care: An analysis of user characteristics by type	e NHI/LSEHS		Others	A	2015	2015 Health policy evaluation and		Others	home nursing care		
	of home nursing care]*		claims and LTC insurance claims dat	-	municip ality in		utilization					
			insurance claims uat	d	Western							
					Japan							
Ishizaki 2018	[Home medical treatment by a medical institution outside Tokyo for home care patients	NHI/LSEHS		Prefecture		2014	2014 Medical treatment status		Others	in-home medical care	Older persons	aged ≥75 years
	who have an insurance card address in Tokyo]*											
Naruse 2017	Measurement of special access to home visit nursing services among Japanese disabled	NHI/LSEHS		Prefecture	A	2010	2010 Health policy evaluation and		Others	access to home visit nursing	Older persons	aged \geq 75 years
	elderly people: using GIS and claim data		term care insurance claims data		Prefectu		utilization					
Kato 2017	Effect of reducing cost sharing for outpatient care on children's inpatient services in	DPC	claims data	Nationwide	re	2012	2013 Health policy evaluation and	Medical treatment status	Others	overall hospital admissions	Children	children
1010 2027	Japan	510		Hationinae		LUIL	utilization	modical doutient status	011013		omarcin	children
Tarasawa 2020	0 [The characteristics of hospitalized patients and the proportion of hospitalization by	DPC		Nationwide		2016	2016 Clinical epidemiology, course of	Medical treatment status	Others	hospitalized patients	Older persons	65 years old and olde
	ambulance from the viewpoint of presence or absence of home medical care before						diseases					
	hospitalization : Cross-sectional analysis using large-scale DPC data for elderly people]											
		DPC				2016			A.1			
Matsuda 2019	[An analysis of the current status of hospitalization from nursing homes and welfare facilities based on DPC data]*	DPC	DPC Study Group	Nationwide		2016	2016 Socioeconomic comparison		Others	Hospitalizations from nursing home	Older persons	Older People
Jeon 2018	Potentially avoidable hospitalizations, non-potentially avoidable hospitalizations and in-	NHI/LSEHS	Long-term care and	Municipality	а	2012	2013 Clinical epidemiology, course of	Socioeconomic comparison	Others	potentially avoidable hospitalizations	Older nersons	aged ≥75 years
	hospital deaths among residents of long-term care facilities	, ====	national health		suburba		diseases					-8 /
			insurance claims dat	a	n city of							
					Chiba							
					prefectu							
					re				A.1			
Mitsutake 2018	[The associations between readmission within 30 days and the medical institute factors among older patients receiving home medical care]	NHI/LSEHS		Prefecture	Tokyo	2013	2014 Clinical epidemiology, course of diseases	Health policy evaluation and utilization	Others	readmission	Older persons	aged 75 years or olde
Sasabuchi	Effect of the 2016 Kumamoto earthquakes on preventable hospital admissions: a	NHI/LSEHS	National Health	Prefecture	Kumam	2013	2016 Medical treatment status	Others	Others	preventable hospital admissions		
2018	retrospective cohort study in Japan	, ====	Insurance, Late		oto							
			Elders' Health									
			Insurance									
Yuda 2018	The medical assistance system and inpatient health care provision: Empirical evidence	Others	Survey of Medical	Nationwide		2000	2010 Medical treatment status	Socioeconomic comparison	Others	short-term inpatient health care provision		
	from short-term hospitalizations in Japan		Care Activities in Public Health									
			Insurance, Fact-									
			finding Survey on									
			Medical Assistance									
Yano 2019	Establishing a hospital transfusion management system promotes appropriate clinical	DPC		Nationwide		2012	2016 Medical treatment status	Health policy evaluation and	Others	use of human albumin	Others	aged 15 years or olde
	use of human albumin in Japan: a nationwide retrospective study							utilization				
lwagami 2015	Choice of renal replacement therapy modality in intensive care units: data from a	DPC		Nationwide		2011	2011 Medical treatment status	Intervention effect	Others	adult patients admitted to ICUs	Others	aged 20 years or olde
Ohauma 2018	Japanese Nationwide Administrative Claim Database Predictors associated with unplanned hospital readmission of medical and surgical	DPC		Nationwide		2012	2014 Clinical epidemiology, course of	Medical treatment status	Others	ICU survivors	Others	aged ≥18 years
Onnunia 2010	intensive care unit survivors within 30 days of discharge	DFC		Nationwide		2012	diseases	wedical treatment status	otiers	ICO SURVIVOIS	Others	ageu 210 years
Hayashida	[Revenue and cost in Japanese ICU focused on the use of life-support system and length	DPC	hospitals participate	d Nationwide		2010	2010 Health economics		Others	ICU		
2013	of stay in the diagnosis procedure combination/per-diem payment system]		in the research group									
Tarasawa 202	1 [Evaluation of Unknown Registration and Utilization of SOFA Score : Analyses of ICU	DPC	DPC Research	Nationwide		2018	2019 Research methodology		Others	SOFA Score	Others	aged ≥ 15 years
	Emergency Inpatients Using Large-scale DPC Data]		Institute						A.1			
Sakai 2021	Decreased Administration of Life-Sustaining Treatment just before Death among Older Inpatients in Japan: A Time-Trend Analysis from 2012 through 2014 Based on a	NDB	Sampling data	Nationwide		2012	2014 Medical treatment status		Others	administration of life-sustaining treatments (LSTs) and intensive care unit (ICU) admissions		aged ≥ 65 years
										just before death in older inpatients		
	Nationally Representative Sample											
Ohbe 2021		DPC		Nationwide		2015	2018 Health economics	Health policy evaluation and	Others	ICU bed occupancy		
	Nationally Representative Sample Intensive care unit occupancy in Japan, 2015-2018: a nationwide inpatient database study							Health policy evaluation and utilization				
Sasabuchi	Nationally Representative Sample Intensive care unit occupancy in Japan, 2015-2018: a nationwide inpatient database study The Volume-Outcome Relationship in Critically III Patients in Relation to the ICU-to-	DPC DPC		Nationwide Nationwide		2015 2007	2012 Health policy evaluation and		Others Others	ICU bed occupancy ICU admitted patients	Others	aged ≥18 years
Sasabuchi 2015	Nationally Representative Sample Intensive care unit occupancy in Japan, 2015-2018: a nationwide inpatient database study The Volume-Outcome Relationship in Critically III Patients in Relation to the ICU-to- Hospital Bed Ratio	DPC		Nationwide		2007	2012 Health policy evaluation and utilization		Others	ICU admitted patients	Others	aged ≥18 years
Sasabuchi 2015 Hayashida	Nationally Representative Sample Intensive care unit occupancy in Japan, 2015-2018: a nationwide inpatient database study The Volume-Outcome Relationship in Critically III Patients in Relation to the ICU-to- Hospital Bed Ratio [Revenue and cost in Japanese ICU focused on the use of life-support system and length	DPC					2012 Health policy evaluation and				Others	aged ≥18 years
Sasabuchi 2015 Hayashida 2013	Nationally Representative Sample Intensive care unit occupancy in Japan, 2015-2018: a nationwide inpatient database study The Volume-Outcome Relationship in Critically III Patients in Relation to the ICU-to- Hospital Bed Ratio [Revenue and cost in Japanese ICU focused on the use of life-support system and length of stay in the diagnosis procedure combination/per-diem payment system]	DPC DPC		Nationwide Nationwide		2007 2010	2012 Health policy evaluation and utilization 2010 Health economics	utilization	Others Others	ICU admitted patients		
Sasabuchi 2015 Hayashida	Nationally Representative Sample Intensive care unit occupancy in Japan, 2015-2018: a nationwide inpatient database study The Volume-Outcome Relationship in Critically III Patients in Relation to the ICU-to- Hospital Bed Ratio [Revenue and cost in Japanese ICU focused on the use of Iife-support system and length of stay in the diagnosis procedure combination/per-diem payment system] Tuberculosis scenning prior to anti-tumor necrosis factor therapy among patients with	DPC DPC		Nationwide		2007	2012 Health policy evaluation and utilization		Others	ICU admitted patients		aged ≥18 years aged 15–69 years
Sasabuchi 2015 Hayashida 2013	Nationally Representative Sample Intensive care unit occupancy in Japan, 2015-2018: a nationwide inpatient database study The Volume-Outcome Relationship in Critically III Patients in Relation to the ICU-to- Hospital Bed Ratio [Revenue and cost in Japanese ICU focused on the use of life-support system and length of stay in the diagnosis procedure combination/per-diem payment system]	DPC DPC		Nationwide Nationwide		2007 2010	2012 Health policy evaluation and utilization 2010 Health economics	utilization	Others Others	ICU admitted patients ICU immune-mediated inflammatory diseases (M05		
Sasabuchi 2015 Hayashida 2013 Tomio 2017	Nationally Representative Sample Intensive care unit occupancy in Japan, 2015-2018: a nationwide inpatient database study The Volume-Outcome Relationship in Critically III Patients in Relation to the ICU-to- Hospital Bed Ratio [Revenue and cost in Japanese ICU focused on the use of IIfe-support system and length of stay in the diagnosis procedure combination/per-diem payment system] Tuberculosis scenning prior to anti-tumor necrosis factor therapy among patients with immune-mediated inflammatory diseases in Japan: a longitudinal study using a large- scale health insurance claims database	DPC DPC JMDC		Nationwide Nationwide Nationwide		2007 2010 2013	2012 Health policy evaluation and utilization 2010 Health economics 2014 Medical treatment status	utilization	Others Others Others	ICU admitted patients ICU immune-mediated inflammatory diseases (M05 –06 for rheumatoid arthritis, K50 for Crohn's disease, K51 for ulcerative colitis and L40 for paoriasis)	Others	
Sasabuchi 2015 Hayashida 2013 Tomio 2017	Nationally Representative Sample Intensive care unit occupancy in Japan, 2015-2018: a nationwide inpatient database study The Volume-Outcome Relationship in Critically III Patients in Relation to the ICU-to- Hospital Bed Ratio [Revenue and cost in Japanese ICU focused on the use of life-support system and length of stay in the diagnosis procedure combination/per-diem payment system] Tuberculosis screening prior to anti-tumor necrosis factor therapy among patients with immune-mediate inflammatory diseases in Japan. Is longitudinal study using a large-	DPC DPC		Nationwide Nationwide		2007 2010	2012 Health policy evaluation and utilization 2010 Health economics	utilization	Others Others	ICU admitted patients ICU immune-mediated inflammatory diseases (MOS –06 for-rheumatoid anthritis, KS0 for Crohn's disease, KS1 for ulcerative colitis and L40 for pooriasis) patients with outpatient prescriptions of Kampo	Others	
Sasabuchi 2015 Hayashida 2013 Tomio 2017 Yamana 2020	Nationally Representative Sample Intensive care unit occupancy in Japan, 2015-2018: a nationwide inpatient database study The Volume-Outcome Relationship in Critically III Patients in Relation to the ICU-to- Hospital Bed Ratio [Revenue and cost in Japanese ICU focused on the use of life-support system and length of stay in the diagnosis procedure combination/per-diem payment system] Tuberculosis screening prior to anti-tumor necrosis factor therapy among patients with immune-mediated inflammatory diseases in Japan: a longitudinal study using a large- scale health insurance claims database Outpatient Prescriptions of Kampo Formulations in Japan	DPC DPC JMDC JMDC		Nationwide Nationwide Nationwide		2007 2010 2013 2017	2012 Health policy evaluation and utilization 2010 Health economics 2014 Medical treatment status 2018 Medical treatment status	utilization	Others Others Others Others	ICU admitted patients ICU immune-mediated inflammatory diseases (M05 -06 for rheumatoid arthritis, K50 for Crohn's disease, K51 for ulcrative colitis and L40 for psoriasis) patients with outpatient prescriptions of Kampo extract formulations	Others	aged 15-69 years
Sasabuchi 2015 Hayashida 2013 Tomio 2017 Yamana 2020 Michihata	Nationally Representative Sample Intensive care unit occupancy in Japan, 2015-2018: a nationwide inpatient database study The Volume-Outcome Relationship in Critically III Patients in Relation to the ICU-to- Hospital Bed Ratio Revenue and cost in Japanese ICU focused on the use of life-support system and length of stay in the diagnosis procedure combination/per-diem payment system) Tuberculosis screening prior to anti-tumor necrosis factor therapy among patients with immune-mediate inflammatory diseases in Japan: a longitudinal study using a large- scale health insurance claims database Outpatient Prescriptions of Kampo Formulations in Japan [Japanese Herbal Kampo Medicine for Pediatric Inpatients in Japan : A Retrospective	DPC DPC JMDC	DPCRI	Nationwide Nationwide Nationwide		2007 2010 2013	2012 Health policy evaluation and utilization 2010 Health economics 2014 Medical treatment status	utilization	Others Others Others	ICU admitted patients ICU immune-mediated inflammatory diseases (MOS –06 for-rheumatoid anthritis, KS0 for Crohn's disease, KS1 for ulcerative colitis and L40 for pooriasis) patients with outpatient prescriptions of Kampo	Others	
Sasabuchi 2015 Hayashida 2013 Tomio 2017 Yamana 2020 Michihata 2018	Nationally Representative Sample Intensive care unit occupancy in Japan, 2015-2018: a nationwide inpatient database study The Volume-Outcome Relationship in Critically III Patients in Relation to the ICU-to- Mospital Bed Ratio [Revenue and cost in Japanese ICU focused on the use of life-support system and length of stay in the diagnosis procedure combination/per-diem payment system] Tuberculosis screening prior to anti-tumor necrosis factor therapy among patients with immune-mediate infammatory diseases in Japane: a longitudinal study using a large- scale health insurance claims database Outpatient Prescriptions of Kampo Formulations in Japan [Japanese Horbal Kampo Medicine for Pediatric Inpatients in Japan : A Retrospective Nationwide Study]	DPC DPC JMDC JMDC DPC		Nationwide Nationwide Nationwide Nationwide Nationwide		2007 2010 2013 2017 2014	2012 Health policy evaluation and utilization 2010 Health economics 2014 Medical treatment status 2018 Medical treatment status 2015 Medical treatment status	utilization	Others Others Others Others Others	ICU admitted patients ICU immune-mediated inflammatory diseases (MOS ~06 for rheumatoid arthritis, KS0 for Crohn's disease, KS1 for ulcerative colitis and L40 for pooriasis) patients with outpatient prescriptions of Kampo extract formulations Herbal Kampo medicine	Others	aged 15-69 years
Sasabuchi 2015 Hayashida 2013 Tomio 2017 Yamana 2020 Michihata	Nationally Representative Sample Intensive care unit occupancy in Japan, 2015-2018: a nationwide inpatient database study The Volume-Outcome Relationship in Critically III Patients in Relation to the ICU-to- Hospital Bed Ratio Revenue and cost in Japanese ICU focused on the use of life-support system and length of stay in the diagnosis procedure combination/per-diem payment system) Tuberculosis screening prior to anti-tumor necrosis factor therapy among patients with immune-mediated inflammatory diseases in Japan: a longitudinal study using a large- scale health insurance claims database Outpatient Prescriptions of Kampo Formulations in Japan [Japanese Herbal Kampo Medicine for Pediatric Inpatients in Japan : A Retrospective	DPC DPC JMDC JMDC	DPCRI health care claim records, which had	Nationwide Nationwide Nationwide		2007 2010 2013 2017	2012 Health policy evaluation and utilization 2010 Health economics 2014 Medical treatment status 2018 Medical treatment status	utilization	Others Others Others Others	ICU admitted patients ICU immune-mediated inflammatory diseases (M05 -06 for rheumatoid arthritis, K50 for Crohn's disease, K51 for ulcrative colitis and L40 for psoriasis) patients with outpatient prescriptions of Kampo extract formulations	Others	aged 15–69 years
Sasabuchi 2015 Hayashida 2013 Tomio 2017 Yamana 2020 Michihata 2018 Katayama	Nationally Representative Sample Intensive care unit occupancy in Japan, 2015-2018: a nationwide inpatient database study The Volume-Outcome Relationship in Critically III Patients in Relation to the ICU-to- Mospital Bed Ratio [Revenue and cost in Japanese ICU focused on the use of life-support system and length of stay in the diagnosis procedure combination/per-diem payment system] Tuberculosis screening prior to anti-tumor necrosis factor therapy among patients with immune-mediate infammatory diseases in Japane: a longitudinal study using a large- scale health insurance claims database Outpatient Prescriptions of Kampo Formulations in Japan [Japanese Horbal Kampo Medicine for Pediatric Inpatients in Japan : A Retrospective Nationwide Study]	DPC DPC JMDC JMDC DPC	health care claim	Nationwide Nationwide Nationwide Nationwide Nationwide		2007 2010 2013 2017 2014	2012 Health policy evaluation and utilization 2010 Health economics 2014 Medical treatment status 2018 Medical treatment status 2015 Medical treatment status	utilization	Others Others Others Others Others	ICU admitted patients ICU immune-mediated inflammatory diseases (MOS ~06 for rheumatoid arthritis, KS0 for Crohn's disease, KS1 for ulcerative colitis and L40 for pooriasis) patients with outpatient prescriptions of Kampo extract formulations Herbal Kampo medicine	Others	aged 15-69 years

Hayashida	The relationship between sedative drug utilization and outcomes in critically ill patients	DPC	QIP	Nationwide		2008	2010 Intervention effect	Medical treatment status	Others	undergoing mechanical ventilation	Others	aged ≥20 years
016 asaki 2016	undergoing mechanical ventilation Hospital Volume and Mortality in Mechanically Ventilated Children: Analysis of a Nationa Inpatient Database in Japan	al DPC		Nationwide		2010	2013 Health policy evaluation and utilization		Others	mechanical ventilation	Children	15 years old or young
agi 2021	Outcomes After Intensive Rehabilitation for Mechanically Ventilated Patients: A Nationwide Retrospective Cohort Study	DPC		Nationwide		2010	2016 Intervention effect		Others	patients with mechanical ventilation in intensive care units	Others	20 years and older
ayashi 2021	Estimation of the number of patients with mitochondrial diseases: A descriptive study using a nationwide database in Japan	NDB		Nationwide		2018	2019 Clinical epidemiology, course of diseases		Others	mitochondrial disease (ICD10: D640, E744,E888, G318, G713, H472, H494, H498)		
atsumoto	Changes in the Penetration Rate of Biosimilar Infliximab Within Japan Using a Japanese	MDV		Nationwide		2013	2019 Medical treatment status		Others	rheumatoid arthritis (M05, M06), Crohn's		
021	Claims Database									disease (K50), ulcerative colitis (K51), and		
mana 2017	Validity of diagnoses, procedures, and laboratory data in Japanese administrative data	DPC	NHO, chart review	Others	four	2014	2015 Research methodology		Others	psoriasis (L40) (ICD10) 16 diseases	Others	aged ≥18 years
	variancy of diagnoses, procedures, and raboratory data in separate administrative data	510	results as reference	others	acute-	2014	Loro Research methodology		011010	10 000000	oulors	0500 E10 J0010
			standards		care							
					HMO hosapita							
					nosapita Is							
					(Shizuok							
					a, Kochi,							
					Fukuoka . and							
					Saga							
					Prefectu							
mana 2015	Categorized diagnoses and procedure records in an administrative database improved	DPC		Nationwide	res)	2012	2013 Prediction model	Clinical epidemiology, course of	Others	acute myocardial infarction, congestive heart	Others	adult patients (≥18
mana 2013	mortality prediction	DFC		Nationwide		2012	2013 Frediction model	diseases	others	failure, acute cerebrovascular disease,	Others	years)
										gastrointestinal hemorrhage, pneumonia, or		
				Nationwide					Au)	septicemia	AL	
ano 2021	Large decrease in paediatric hospitalisations during the COVID-19 outbreak in Japan	MDV		Nationwide		2017	2020 COVID-19	Medical treatment status	Others	paediatric hospitalisations (food allergy, acute lower respiratory infections. Kawasaki disease.	Children	aged 1–17 years
										intestinal infectious diseases, febrile		
										convulsions, asthma, appendicitis, inguinal		
tsutake	Patterns of Co-Occurrence of Chronic Disease Among Older Adults in Tokyo, Japan	NHI/LSEHS	Tokyo Extended	Prefecture	Tokyo	2013	2014 Clinical epidemiology, course of		Others	hernia and trauma) 22 chronic diseases	Older percent	aged 75 or older
19	Patterns of Co-occurrence of Chronic Disease Among order Adults in Tokyo, Japan	NHI/LƏEHƏ	Association of	Freiecture	ТОКУО	2015	diseases		others	22 chronic diseases	older persons	aged 75 of older
			Medical Care System	ı								
			for the Latter-Stage Elderly People									
aruse 2015	Diseases that precede disability among latter-stage elderly individuals in Japan	NHI/LSEHS		Prefecture	Fukui	2011	2012 Clinical epidemiology, course of	Health policy evaluation and	Others	nine types of diseases as predisposing factors	Older persons	aged 75 years or olde
			insurance system				diseases	utilization		for disability (cancer, cerebrovascular disorder,		
										arthropathy, fracture, pneumonia, dementia, psychiatric disorder, neurological disorder)		
Aoriwaki 201	8 [Evaluation of healthcare safety indicators by the Diagnosis Procedure Combination	DPC		Nationwide		2014	2015 Quality of care		Others	6 healthcare safety indicators		
	data]											
amana 2015	Procedure-based severity index for inpatients: development and validation using administrative database	DPC		Nationwide		2012	2013 Prediction model	Research methodology	Others	acute myocardial infarction, congestive heart failure, acute cerebrovascular disease.	Others	≥18 years
										gastrointestinal hemorrhage, pneumonia, or		
										septicemia		
ijiu 2018	Evaluation of Regional Vulnerability to Disasters by People of Ishikawa, Japan: A Cross Sectional Study Using National Health Insurance Data	NHI/LSEHS	KDB (national health insurance data)	Municipality	Hakui City in	2015	2015 Health policy evaluation and utilization		Others	disaster-vulnerable patients (specifically, hart disease, CVD, dialysis)	Others	at least 40 years old
	Sectional Study Using National Health Insurance Data		insurance data)		Ishikawa		utilization			disease, CVD, dialysis)		
					Prefectu							
urata 2013	Association between ambulance distance to hospitals and mortality from acute diseases	000		Nationwide	re	2008	2008 Socioeconomic comparison	Clinical epidemiology, course of	Others	acute diseases (acute myocardial infarction.		
urata 2015	in Japan: national database analysis	DFC		Nationwide		2008	2008 Socioeconomic companson	diseases	others	brain infarction, subarachnoid hemorrhage, and		
										pneumonia)		
akeda 2016	Estimating the Ratio of Patients with a Certain Disease Between Hospitals for the	Others	health insurance	Others	Osaka Universi	2015	2015 Research methodology		Others	329 diseases	Others	<20 years of age (F9 F98)
	Allocation of Patients to Clinical Trials Using Health Insurance Claims Data in Japan		claims data, chart review		ty							F98)
			leview		Hospital							
himizu 2014	Assessment of Medical Information Databases to Estimate Patient Numbers	Others	JMDC, MDV, JMIRI	Nationwide		2009	2012 Research methodol	ogy	Others	Seven diseases: benign prostatic hyperplasia,		
			(IMS-JPM)							Parkinson's disease, herpes zoster, gout, asthma, epilepsy, and atopic dermatitis		
Kasamo 2021	Changes in prescribing trends and initial pharmacotherapy of children with nocturnal	JMDC		Nationwide		2005	2019 Medical treatment status		Others	Nocturnal enuresis(ICD-10:R32)	Children	children < 16 years
	enuresis in Japan: a large-scale medical claims database analysis											
akatani 202	1 Data resource profile of Shizuoka Kokuho Database (SKDB) using integrated health- and integrated health abaduate the Shizuoka Study.	HI/LSEHS	Shizuoka Kokuho Database	Prefecture	Shizuok	2012	2018 Research methodology		Others	not specified		
	care-insurance claims and health checkups: the Shizuoka Study		Database		a Prefectu							
					re							
in 2020	New outcome-specific comorbidity scores excelled in predicting in-hospital mortality and	I DPC	QIP database	Nationwide		2016	2018 Prediction model	Clinical epidemiology, course of	Others	comorbidities composing Charlson comorbidity	Others	aged ≥ 18 years
	healthcare charges in administrative databases							diseases		index (CCI), Elixhauser comorbidity (EC), Gagne's combined comorbidity scores		
		0.00		Nationwide		2008	2012 Prediction model	Health policy evaluation and	Others	Hospital standardized mortality ratio	Others	did not include patien
ninjo 2017	The degree of severity and trends in hospital standardized mortality ratios in Japan between 2008 and 2012: a retrospective observational study	DPC		Hationwide		2000		utilization		hospital standardized mortality ratio	ouncip	less than 15 years old

Tanihara 2015	Assessment of text documentation accompanying uncoded diagnoses in computerized	NHI/I CEUC	National Health	Prefecture	Kumam	2010	2010 Research methodology		Others	all disease categories		
rannara 2015	health insurance claims in Japan	NHI/LOEHO	Insurance	Frelecture	oto	2010	2010 Research methodology		otiers	an disease categories		
	read insurance claims in Japan		Organization of		010							
			Kumamoto									
			Prefecture									
oba 2013	Claims-based definition of death in Japanese claims database: validity and implications	JMDC		Nationwide		2005	2009 Research methodology		Others	Not specified	Others	aged 20 to 74
ato 2012	Impact of teaching intensity and academic status on medical resource utilization by	DPC	study group	Nationwide	40	2004	2004 Health economics		Others	Not specified		
	teaching hospitals in Japan				national							
					universit							
					у							
					academi c							
					teaching							
					hospital							
					s							
Ohbe 2019	Physician-manned prehospital emergency care in tertiary emergency centers in Japan	DPC		Nationwide		2014	2015 Medical treatment status	Clinical epidemiology, course of diseases	Others	physician-manned prehospital emergency medical service		
ato 2019	Enabling Patient Traceability Using Anonymized Personal Identifiers in Japanese	Others	national-level	Nationwide	municip	2009	2014 Research methodology	uiseases	Others	Not specified		
5810 2015	Universal Health Insurance Claims Database	Others	insurance claims data		ality-	2005	2014 Research methodology		otiers	Not specified		
			(NDB) and		administ							
			prefectural-level		ered							
			insurance claims data	3	health							
					insuranc							
					е							
					program							
					s in Mie							
					Prefectu							
Kubo 2017	[The need and key points for patient matching in clinical studies using the National	NDB		Nationwide	re	2013	2014 Research methodology		Others	patient matching		
	Database of Health Insurance Claims and Specific Health Checkups of Japan (NDB)]						_					
Noda 2017	[Improvements and verification of the patient matching (name matching) method in	NDB		Nationwide		2013	2014 Research methodology		Others	patient matching		
	health insurance claims information and National DataBase (NDB) on specific medical checkups]*											
Nagamine	[Consultation trends before and after the introduction of the subsidy system for child	NHI/LSEHS	NHI	Municipality	A city	2009	2013 Health policy evaluation and		Others	use of medications and health care services	Children	school-age children
2016	medical expenses in municipalities: From an analysis of health insurance claims from City A before and after the introduction of the system]*						utilization					
Matsuda 2015	A Pilot Study of Developing the Health Data Analysis System in the Japanese	Others	claim data of one	Others	one	2011	2012 Health policy evaluation and		Others	natural history of various diseases		
	Occupational Setting		enterprise managed		enterpri		utilization					
			health insurance		se							
					manage							
					d health							
					insuranc							
Tanibara 2011	A statistical analysis of 'rule-out' diagnoses in outpatient health insurance claims in	Others	corporate health	Others	e corporat	2006	2006 Medical treatment status		Others	'rule-out' diagnoses		
101110101011	Japan	others	insurance societies	outors	e health	2000	2000 medical redunient status		011013	The out dispresss		
	,				insuranc							
					e							
					societies							
Kawaguchi	[Study about Evaluation of Hospital Efficiency and Function Used by DPC Data Set]	DPC		Nationwide		2005	2007 Research methodology	Health policy evaluation and	Others	Not specified		
2010	[The Development of Dataset Tables for NDB Analyses]							utilization	A.1			
Fukuda 2019 Fukuda 2019		NDB NDB		Nationwide Nationwide		2009 2009	2016 Research methodology 2016 Research methodology		Others Others	Not specified Not specified		
1 UKUUA 2015				Nationwide		2005	2010 Research methodology		Others	Not specified		
	analyses using claims data]											
Imai 2017	analyses using claims data] [Development and Validation of a Medicationbased Comorbidity Index for Use with an	Others	NHO: National	Nationwide		2011	2013 Prediction model	Clinical epidemiology, course of	Others	comorbidity index	Others	aged ≥15 years
Imai 2017	[Development and Validation of a Medicationbased Comorbidity Index for Use with an Administrative Database in Japan]		Hospital Organization	ı				Clinical epidemiology, course of diseases			Others	aged ≥15 years
Imai 2017 Bono 2017	[Development and Validation of a Medicationbased Comorbidity Index for Use with an Administrative Database in Japan] [Approach Aiming at the Increase with the Discharge Drug Information Management	Others DPC	Hospital Organization Federation of			2011 2015	2013 Prediction model 2016 Medical treatment status		Others Others	Discharge drug information management	Others	aged ≥15 years
	[Development and Validation of a Medicationbased Comorbidity Index for Use with an Administrative Database in Japan]		Hospital Organization Federation of National Public	ı							Others	aged ≥15 years
	[Development and Validation of a Medicationbased Comorbidity Index for Use with an Administrative Database in Japan] [Approach Aiming at the Increase with the Discharge Drug Information Management		Hospital Organization Federation of National Public Services Personnel	ı						Discharge drug information management	Others	aged ≥15 years
	[Development and Validation of a Medicationbased Comorbidity Index for Use with an Administrative Database in Japan] [Approach Aiming at the Increase with the Discharge Drug Information Management		Hospital Organization Federation of National Public Services Personnel Mutual Aid	ı						Discharge drug information management	Others	aged ≥15 years
Bono 2017	[Development and Validation of a Medicationbased Comorbidity Index for Use with an Administrative Database in Japan] [Approach Aiming at the Increase with the Discharge Drug Information Management Instruction Charges Calculation Method Review]		Hospital Organization Federation of National Public Services Personnel	Nationwide	X city		2016 Medical treatment status		Others	Discharge drug information management	Others	aged ≥15 years
	[Development and Validation of a Medicationbased Comorbidity Index for Use with an Administrative Database in Japan] [Approach Aiming at the Increase with the Discharge Drug Information Management	DPC	Hospital Organization Federation of National Public Services Personnel Mutual Aid Associations	ı	X city	2015		diseases	Others	Discharge drug information management instruction charges		
Bono 2017	[Development and Validation of a Medicationbased Comorbidity Index for Use with an Administrative Database in Japan] [Approach Aiming at the Increase with the Discharge Drug Information Management Instruction Charges Calculation Method Review] [The Impact of Short-term Health Insurance Card and Eligibility Certification Card on	DPC	Hospital Organization Federation of National Public Services Personnel Mutual Aid Associations short-term health insurance card and eligibility certification	Nationwide	X city	2015	2016 Medical treatment status 2011 Health policy evaluation and	diseases	Others	Discharge drug information management instruction charges		Excludes children und
Bono 2017 Ohtsu 2014	[Development and Validation of a Medicationbased Comorbidity Index for Use with an Administrative Database in Jagan] [Approach Aiming at the Increase with the Discharge Drug Information Management Instruction Charges Calculation Method Review] [The Impact of Short-term Health Insurance Card and Eligibility Certification Card on Health Care Access in Japan : Findings from National Health Insurance Receipt Data]	DPC NHI/LSEHS	Hospital Organization Federation of National Public Services Personnel Mutual Aid Associations short-term health insurance card and eligibility certification card data	Nationwide Municipality	,	2015	2016 Medical treatment status 2011 Health policy evaluation and utilization	diseases Patient health service utilization	Others Others	Discharge drug information management instruction charges Not specified		Excludes children une high school age and
Bono 2017 Ohtsu 2014	[Development and Validation of a Medicationbased Comorbidity Index for Use with an Administrative Database in Japan] [Approach Aiming at the Increase with the Discharge Drug Information Management Instruction Charges Calculation Method Review] [The Impact of Short-term Health Insurance Card and Eligibility Certification Card on	DPC	Hospital Organization Federation of National Public Services Personnel Mutual Aid Associations short-term health insurance card and eligibility certification card data corporate health	Nationwide	corporat	2015	2016 Medical treatment status 2011 Health policy evaluation and	diseases	Others	Discharge drug information management instruction charges		Excludes children unc
Bono 2017 Ohtsu 2014	[Development and Validation of a Medicationbased Comorbidity Index for Use with an Administrative Database in Jagan] [Approach Aiming at the Increase with the Discharge Drug Information Management Instruction Charges Calculation Method Review] [The Impact of Short-term Health Insurance Card and Eligibility Certification Card on Health Care Access in Japan : Findings from National Health Insurance Receipt Data]	DPC NHI/LSEHS	Hospital Organization Federation of National Public Services Personnel Mutual Aid Associations short-term health insurance card and eligibility certification card data	Nationwide Municipality	corporat e health	2015	2016 Medical treatment status 2011 Health policy evaluation and utilization	diseases Patient health service utilization	Others Others	Discharge drug information management instruction charges Not specified		Excludes children unc
Bono 2017 Ohtsu 2014	[Development and Validation of a Medicationbased Comorbidity Index for Use with an Administrative Database in Jagan] [Approach Aiming at the Increase with the Discharge Drug Information Management Instruction Charges Calculation Method Review] [The Impact of Short-term Health Insurance Card and Eligibility Certification Card on Health Care Access in Japan : Findings from National Health Insurance Receipt Data]	DPC NHI/LSEHS	Hospital Organization Federation of National Public Services Personnel Mutual Aid Associations short-term health insurance card and eligibility certification card data corporate health	Nationwide Municipality	corporat	2015	2016 Medical treatment status 2011 Health policy evaluation and utilization	diseases Patient health service utilization	Others Others	Discharge drug information management instruction charges Not specified		Excludes children unc
Bono 2017 Ohtsu 2014	[Development and Validation of a Medicationbased Comorbidity Index for Use with an Administrative Database in Jagan] [Approach Aiming at the Increase with the Discharge Drug Information Management Instruction Charges Calculation Method Review] [The Impact of Short-term Health Insurance Card and Eligibility Certification Card on Health Care Access in Japan : Findings from National Health Insurance Receipt Data]	DPC NHI/LSEHS	Hospital Organization Federation of National Public Services Personnel Mutual Aid Associations short-term health insurance card and eligibility certification card data corporate health	Nationwide Municipality	corporat e health insuranc e	2015	2016 Medical treatment status 2011 Health policy evaluation and utilization	diseases Patient health service utilization	Others Others	Discharge drug information management instruction charges Not specified		Excludes children unc
Bono 2017 Ohtsu 2014	[Development and Validation of a Medicationbased Comorbidity Index for Use with an Administrative Database in Japan] [Approach Aiming at the Increase with the Discharge Drug Information Management Instruction Charges Calculation Method Review] [The Impact of Short-term Health Insurance Card and Eligibility Certification Card on Health Care Access in Japan : Findings from National Health Insurance Receipt Data] Estimating medical expenditures spent on rule-out diagnoses in Japan	DPC NHI/LSEHS Others	Hospital Organization Federation of National Public Services Personnel Mutual Aid Associations short-term health insurance card and card data corporate health insurance societies	Nationwide Municipality	corporat e health	2015	2016 Medical treatment status 2011 Health policy evaluation and utilization 2006 Health economics	diseases Patient health service utilization Medical treatment status	Others Others	Discharge drug information management instruction charges Not specified Not specified		Excludes children unc
3ono 2017 Dhtsu 2014 Fanihara 2012	[Development and Validation of a Medicationbased Comorbidity Index for Use with an Administrative Database in Jagan] [Approach Aiming at the Increase with the Discharge Drug Information Management Instruction Charges Calculation Method Review] [The Impact of Short-term Health Insurance Card and Eligibility Certification Card on Health Care Access in Japan : Findings from National Health Insurance Receipt Data]	DPC NHI/LSEHS Others	Hospital Organization Federation of National Public Services Personnel Mutual Aid Associations short-term health insurance card and eligibility certification card data corporate health	Municipality Others	corporat e health insuranc e societies	2015	2016 Medical treatment status 2011 Health policy evaluation and utilization	diseases Patient health service utilization	Others Others Others	Discharge drug information management instruction charges Not specified		Excludes children unc

toh 2021	Comparison of progression of care-need levels among long-term care recipients with and	NHI/LSEHS	medical care claim	Others	A rural	2012	2017 Intervention effect		Others	progression of careneed levels among long-	Older persons aged ≥65 years
	without advanced care management in a rural municipality of Japan: A population-based		records from a rural		municip					term care recipients	
	observational study		municipal		ality in						
			government and the Survey of Long-Term		Japan						
			Care Benefit								
			Expenditures								
m 2021	Comparison of care utilisation and medical institutional death among older adults by	NHI/LSEHS	medical claims	Prefecture	Fukuoka	2014	2017 Patient health service utilization		Others	care utilisation and the incidence of medical	Older persons aged ≥75 years
	home care facility type: a retrospective cohort study in Fukuoka, Japan		database and an LTC							institutional death	
			insurance claims								
			database (provided								
			by the Fukuoka								
			Prefecture								
			Association of								
			Latterstage Elderly								
ono 2021	Phase and the second state of the second state of the balance of t	NHI/LSEHS	Healthcare)		Izumi.	2012	0017 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Others	Photo and the second state of the second state	011
ono 2021	Five-year disease-related risk of mortality in ambulatory frail older Japanese	NHI/LSEHS	long-term care and health insurance	Municipality	izumi, Misaki,	2012	2017 Clinical epidemiology, course of diseases		Others	Five-year disease-related risk of mortality in ambulatory frail older	Older persons aged 265 years
			claims data		and		uiseases			ambulatory nan older	
			(accumulated		Izumiots						
			electronically by local		u						
			governments; SOHA		(Osaka)						
			study)								
wagami 2019	Association between recorded medical diagnoses and incidence of long-term care needs	NHI/LSEHS	medical and long-	Municipality	two	2012	2016 Clinical epidemiology, course of	Health policy evaluation and	Others	all disease categories	Older persons people aged ≥75 ye
	certification: a case control study using linked medical and long-term care data in two		term care insurance		cities		diseases	utilization			
	Japanese cities		claims								
Mori 2019	The associations of multimorbidity with the sum of annual medical and long-term care	NHI/LSEHS	medical insurance	Municipality	Kashiwa	2012	2013 Health economics		Others	multimorbidity (Charlson Comorbidity Index	Older persons adults \geq 75 years
	expenditures in Japan		claims data (of the		city					scores)	
			Late-Stage Medical								
			Care System for the Elderly) and LTC								
			insurance claims data								
			insurance cianna data								
Sakai 2019	Validation of claims data to identify death among aged persons utilizing enrollment data	JMDC		Nationwide		2012	2015 Research methodology		Others	Inpatient and outpatient deaths	Older persons aged 65-74 years
Astauda 2010	from health insurance unions [Big data analysis of medical and nursing care: A study on evaluating the quality of	NUL/LOFUS	medical insurance	Others	municip	2012	2017 Quality of care	Health policy evaluation and	Others	Not specified	Older persons aged 75 years or old
vatsuda 2019	[big data analysis of medical and nursing care: A study on evaluating the quality of collaboration between home medical care and long-term care]*	NHI/LSEHS	claims and LTC	Others	ality in	2012	2017 Quality of care	interaction policy evaluation and utilization	Others	Not specified	Older persons aged /5 years or old
	conaporation perween nome medical care and long-term care].		insurance claims data		Western			demzación			
			modrance elamo date		Japan						
Masuzawa	[Analysis of a long-term health care organaization from structural analysis of medical	NHI/LSEHS	National Health	Municipality	Yokoha	2010	2015 Health economics		Others	Not specified	Older persons Older People
2019	expenditures of the elderly]		Insurance and the		ma,						
			late-stage medical		Kawasa						
			care system		ki, and						
					Odawar						
Takada 2018	Development and validation of a prediction model for functional decline in older medical inpatients	MDV		Nationwide		2014	2015 Prediction model	Clinical epidemiology, course of diseases	Others	risk of functional decline	Older persons 65 years old or olde
Matsuda 2018	[Big data analysis of medical and nursing care: An analysis of the structure of injury and	NHI/LSEHS	medical insurance	Others	A	2015	2015 Health policy evaluation and	uiseases	Others	common diseases	Older persons Older People
11010000 2010	disease according to the level of nursing care required]*	THIN, LOLITO	claims and LTC	others	municip	2010	utilization		0103		older persons older reopie
	abease deeprang to the lever of harding date required.		insurance claims data		ality in		denization				
					Western						
					Japan						
Aatsuda 2018	[Big data analysis of medical and nursing care: A trial study on the economic effects of	NHI/LSEHS	medical insurance	Others	A	2008	2014 Health policy evaluation and		Others	Not specified	Older persons Older People
	long-term care prevention and comprehensive lifestyle projects]*		claims and LTC		municip		utilization				
			insurance claims data		ality in						
					Western						
	fam. is a data in the second				Japan				A-1		
Matsuda 2018	[Big data analysis of medical and nursing care: Examination of the ideal "family	NHI/LSEHS	Dispensing claims	Others	Α	2015	2015 Health policy evaluation and		Others	Not specified	
	pharmacy" from the perspective of the calculation of pharmaceutical management fees]*		(The National Health		municip		utilization				
			Insurance system and Late Elders' Health		ality in Western						
			Late Elders' Health Insurance)		Western Japan						
Ishizaki 2017	Cumulative number of hospital bed days among older adults in the last year of life: A	NHI/LSEHS	medical insurance	Municipality	Soma	2006	2009 Medical treatment status		Others	main cause of death	Older persons aged ≥65years
	retrospective cohort study		claims and LTC	.nonicipanty	City	2000	means reduient status				berrours allen consteals
	,		insurance claims data		/						
kiyama 2015	[About factors relating to the admission of the elderly with nursing care needs	NHI/LSEHS	National Health	Municipality	A city in	2007	2009 Health policy evaluation and		Others	nursing care needs	Older persons aged 65 years and a
	certification]		Insurance and the		Hokkaid		utilization				
			late-stage medical		0						
			care system (+LTC		prefectu						
Kimura 2010	Development of a database of health insurance claims: standardization of disease	JMDC	insurance)	Nationwide	re	2003	2002 Desearch methodology		Others	Development of a database	
	classifications and anonymous record linkage						2003 Research methodology				
Aatsuda 2010	[Development of a consolidated analysis system for health insurance/long-term care	NHI/LSEHS	medical insurance	Municipality	A	2009	2009 Research methodology		Others	Not specified	
	insurance claims and specific health checkup data]*		claims and LTC		municip						
			insurance claims data		ality in						
					Fukuoka	0011			A.1		
Hirota 2020	Association between clinic physician workforce and avoidable readmission: a retrospective database research	DPC		Nationwide	Fukuoka	2014	2014 Health policy evaluation and utilization		Others	ambulatory care sensitive conditions	Older persons ≥65 years of age

Fujita 2016	Income Related Inequality of Health Care Access in Japan: A Retrospective Cohort Study	NHI/LSEHS	NHI	Municipality	Chiba	2012	2014 Socioeconomic comparison	Patient health service utilization	Others	health care access	Others	0-74 years old
	-				City							
Suzuki 2014	[Regional diagnosis of municipalities within the prefecture using public data: Regional disparities in medical expenses: Regional diagnosis based on data on health insurance claims]*	NHI/LSEHS	NHI	Prefecture	Miyagi	2012	2012 Health economics	Socioeconomic comparison	Others	Not specified		
Kisa 2012		NHI/LSEHS	NHI	Municipality	four	2006	2010 Patient health service utilization		Others	disease type and healthcare-seeking behavior		
	Disease Type and Patients' Healthcare-seeking Behavior				towns in Hokkaid							
Miyata 2010	Assessment of hospital performance with a case-mix standardized mortality model using an existing administrative database in Japan	DPC		Nationwide	0	2006	2006 Prediction model	Health policy evaluation and utilization	Others	hospital performance		
Nojiri 2019	Comorbidity status in hospitalized elderly in Japan: Analysis from National Database of Health Insurance Claims and Specific Health Checkups			Nationwide		2015	2016 Clinical epidemiology, course of diseases		Others	comorbidity status of hospitalized elderly patients		aged ≥60 years
Miyazaki 2012	A study on medical cost analysis and construction of an evaluation system for optimization of medical costs in Shimane Prefecture (2010)	NHI/LSEHS	NHI	Prefecture	Shimane	2001	2010 Health economics	Health policy evaluation and utilization	Others	Not specified	Others	under 75 years
Iwabuchi 2014		DPC	Estimate of population	Prefecture	Yamagat a	2012	2013 Health policy evaluation and utilization		Others	not specified		
Kuwabara	Contribution of case-mix classification to profiling hospital characteristics and	DPC		Nationwide		2006	2006 Health policy evaluation and		Others	not specified		
2011 Fushimi 2010	productivity [HCSI initiative research paper: Factors associated with hospital selection of inpatients	DPC		Nationwide		2008	utilization 2008 Patient health service utilization	Health policy evaluation and	Others	not specified		
Tanaka 2011	analyzed by patient survey data and DPC data] [[For more efficient management of the operating department: What is the index of	DPC		Nationwide		2006	2008 Research methodology	utilization	Others	Not specified		
Tanaka 2011	efficiency?] Examination and multi-institutional comparison of the index of efficiency of operating room management.]*	DIG		Nationwide		2000	2000 Research methodology		Others	Not specified		
Sato 2020	Retrieving and Analyzing Hospital Service Suspensions from Regional Healthcare	Others	insurance claims	Prefecture	Mie	2013	2017 Health policy evaluation and		Others	Not specified		
	Insurance Claims Data		dataset of 91 regiona public insurance	1			utilization					
			providers in the Mie prefectural area									
Mitsutake 2020	[Examination of international statistical reports created by utilizing databases such as health insurance claims information]*	NDB	+NDB Open data	Nationwide		2009	2014 Medical treatment stat	us Health policy evaluation ar utilizatio		medical treatment information		
Kimura 2019	Validation and Recalibration of Charlson and Elixhauser Comorbidity Indices Based on	JMDC		Nationwide		2011	2016 Prediction model	Research methodolog		Not specified	Others	aged ≥18 years
Doi 2018	Data From a Japanese Insurance Claims Database [An Analysis of Factors Affecting Regional Differences in Home-care Utilization Levels	NHI/LSEHS	National Health	Municipality	Funabas	2013	2014 Medical treatment stat	us Socioeconomic compariso	on Others	Not specified	Older persons	aged ≥65 years
	Using Geographic Information Systems]		Insurance and Later-		hi city							
			Stage Elderly Healthcare System									
Tanihara 2017	[Comparison of the number of health insurance claims per population by major	JMDC	Statistics of Medical	Nationwide		2014	2014 Research methodolo	gy	Others	Not specified		
	classification of injuries and diseases in the social medical treatment survey and society health insurance claims data]*		Care Activities in Public Health									
			Insurance (MHLW)									
Kimura 2015	[Same Examinations in Different Healthcare Providers in the Same Month of Referral, Analysis by Reimbursement Claim Database]	NDB	Sampling data	Nationwide		2011	2011 Medical treatment stat	us	Others	same examinations in different healthcare provider		
Takenouchi 2013	[Combined Anonymization Considering Attackers in Data Holders]	JMDC		Nationwide		2005	2011 Research methodolo	gy	Others	Not specific (diabetes)		
Kobayashi 2012	[Calculation of clinical indices using DPC data: Focusing on AHRQ Patient Safety Indicators]*	DPC		Nationwide		2009	2009 Quality of ca	re Research methodolog	gy Others	Patient Safety Indicator		
Ohbe 2021	Effect of Daikenchuto for Mechanically Ventilated Patients With Enteral Feeding Intolerance: A Propensity Score-Matched Analysis Using a Nationwide Administrative Inpatient Database	DPC		Nationwide		2010	2018 Intervention effect		Others	enteral feeding intolerance	Others	aged ≥18 years
Ohbe 2021		DPC		Nationwide		2010	2018 Intervention effect		Others	early enteral nutrition in mechanically ventilated patients	Others	aged ≥18 years
Maeda 2019	A comparative analysis of treatment costs for home-based care and hospital-based care	NHI/LSEHS	Tokyo Metropolitan	Prefecture	Tokyo	2013	2014 Health economics	Medical treatment status	Others	enteral nutrition patients	Older persons	aged 75 years or older
	in enteral nutrition patients: A retrospective analysis of claims data		Association of Medical Care for Senior Citizens									
Tsugihashi 2021	Long-term prognosis of enteral feeding and parenteral nutrition in a population aged 75 years and older: a population-based cohort study	NHI/LSEHS	national health insurance claims in	Prefecture	Nara	2014	2016 Clinical epidemiology, course of diseases		Others	Long - term prognosis of enteral feeding and parenteral nutrition	Older persons	aged ≥75 years
			the Nara Prefecture									
Kinoshita 2018	Prescription pattern and trend of oral contraceptives in Japan: A descriptive study based on pharmacy claims data (2006 - 2014)	Others	pharmacy claims datasets provided by the nationwide	Nationwide		2006	2014 Medical treatment status		Others	oral contraceptives	Others	aged 11–59 years
Nelsete 2017	Efficiency of inpatient orthopedic surgery in Japan: a medical claims database analysis	IMDO	pharmacy chains	Nationwide		2014	2014 Health policy evaluation and		Others	inpatient orthopedic surgical case		
							utilization					
Watanabe 2018	Association between outpatient orthopedic surgery costs and healthcare facility characteristics	JMDC		Nationwide		2014	2014 Health economics	Health policy evaluation and utilization	Others	outpatient orthopedic surgery		
Shoda 2015	Prophylactic effect of fondaparinux and enoxaparin for preventing pulmonary embolism after total hip or knee arthroplasty: A retrospective observational study using the	DPC		Nationwide		2008	2010 Intervention effect		Others	after total hip or knee arthroplasty		
Chikuda 2013	Japanese Diagnosis Procedure Combination database Impact of age and comorbidity burden on mortality and major complications in older	DPC		Nationwide		2007	2010 Clinical epidemiology, course of	Intervention effect	Others	orthopaedic surgery	Others	patients aged 50 years
9	adults undergoing orthopaetic surgery: an analysis using the Japanese diagnosis procedure combination database						diseases					or older
	Statistics for orthopedic surgery 2006-2007: data from the Japanese Diagnosis Procedure	DPC		Nationwide		2006	2007 Medical treatment status		Others	orthopedic surgery		
Kadono 2010	Combination database											

Urushihara	[Socioeconomic impacts of policy on Rx-to-OTC switch to prescription of ethical drugs in	Others	National Prescription	Nationwide		2008	2014 Health policy evaluation and	Health economics	Others	OTC switching		
018	Japan]		Audit (IMS Health)				utilization					
uzuki 2018	Trend in otolaryngological surgeries in an era of super-aging: Descriptive statistics using a Japanese inpatient database			Nationwide		2007	2014 Medical treatment status		Others	patients underwent otolaryngological surgeries		
iyawaki 2017	Impact of medical subsidy disqualification on children's healthcare utilization: A	NHI/LSEHS	NHI	Municipality	a city	2012	2014 Health policy evaluation and	Patient health service utilization	Others	outpatient service utilization	Children	school-age children
	difference-in-differences analysis from Japan				within		utilization					
					the							
					Tokyo							
					metropo							
		a			litan							
Vishioka 2020	Frequent outpatient attendance among people on the governmental welfare programme	Others	medical assistance		two	2016	2016 Patient health service utilization	Socioeconomic comparison	Others	Frequent outpatient attendance		
	in Japan: assessing both patient and supplier characteristics		claim data, municipal public assistance		suburba							
			databases		municip							
			uatabases		alities.							
					Osaka							
					and							
					Tokvo							
Matsui 2018	Recent Trends in the Practice of Procedural Sedation Under Local Anesthesia for	MDV		Nationwide		2012	2015 Medical treatment status	Clinical epidemiology, course of	Others	catheter ablation, gastrointestinal endoscopic	Others	aged ≥18 years
	Catheter Ablation, Gastrointestinal Endoscopy, and Endoscopic Surgery in Japan: A							diseases		examination and surgery, dexmedetomidine		
	Retrospective Database Study in Clinical Practice from 2012 to 2015											
Yonekura 2018	Preoperative pulmonary function tests before low-risk surgery in Japan: a retrospective	JMDC		Nationwide		2012	2016 Medical treatment status	Quality of care	Others	pulmonary function tests	Others	aged 20-64 years
	cohort study using a claims database											
Mitsutake	Associations of Hospital Discharge Services With Potentially Avoidable Readmissions	NHI/LSEHS	Tokyo Extended	Prefecture	Tokyo	2013	2014 Intervention effect		Others	underwent rehabilitation and were discharged	Older persons	aged ≥75 years
2020	Within 30 Days Among Older Adults After Rehabilitation in Acute Care Hospitals in Tokyo,		Association of							to home		
	Japan		Medical Care for									
			Latter-Stage Older									
			People									
Tsuchiya-Ito	Association of household income with home-based rehabilitation and home help service	NHI/LSEHS	LTC insurance claims	Municipality	Kashiwa	2012	2013 Socioeconomic comparison	Health policy evaluation and	Others	home-based rehabilitation and home help	Older persons	aged ≥65 years
2020	utilization among long-term home care service users		and medical claims		City			utilization		services		
Mitsutake		NHI/LSEHS		Prefecture	Tokyo	2014	2014 Health policy evaluation and		Others	maintenance rehabilitation	Older persons	75 years or older
2018	over 75 in Japan]			0.1		2011	utilization	the data sets as a first set of	Q11-11-	and a first state of the state	011	011 0
Matsuda 2018	[Big data analysis of medical and nursing care: An analysis of characteristics of outpatient rehabilitation and short-term intensive rehabilitation recipients]*	NHI/LSEHS	medical insurance claims and LTC	Others	municip alities in	2011	2016 Clinical epidemiology, course of diseases	Health policy evaluation and utilization	Others	rehabilitation services	Older persons	Older People
	outpatient renabilitation and short-term intensive renabilitation recipients]*		insurance claims data		alities in Western		diseases	utilization				
			insurance claims data	3	Japan							
Matsuda 2019	[Big data analysis of medical and nursing care: An analysis of user characteristics by type	NUL/L SEUS	medical insurance	Others	municip	2015	2015 Health policy evaluation and		Others	home rehabilitation	Older persons	Older People
101813008 2010	of home rehabilitation services]*	NIII/ LOLIIO	claims and LTC	otiers	alities in	2015	utilization		Others	nome reliabilitation	older persons	order i eopre
	of none rendomation derived by		insurance claims data		Western		demonstration -					
			modrande elamo data		lanan							
Yoshikawa	Effects of active smoking on postoperative outcomes in hospitalised patients undergoing	MDV		Nationwide		2018	Clinical epidemiology, course of		Others	effects of smoking on prognosis after elective	Others	20 years of age or old
2019	elective surgery: a retrospective analysis of an administrative claims database in Japan						diseases			surgeries		, ,
										-		
Mano 2015	Adherence to changing from brand-name to generic atorvastatin in newly treated	JMDC		Nationwide		2011	2012 Patient health service utilization	Health policy evaluation and	Others	statin therapy	Others	aged ≥18 years
	patients: a retrospective cohort study using health insurance claims							utilization				
Takizawa 2015	Price difference as a predictor of the selection between brand name and generic statins	JMDC		Nationwide		2008	2011 Patient health service utilization	Health policy evaluation and	Others	statin users		
	in Japan							utilization				
Gao 2021	Comparison of adherence, persistence, and clinical outcome of generic and brand-name	JMDC		Nationwide		2014	2016 Patient health service utilization	Health policy evaluation and	Others	statin users	Others	aged ≥18 years
	statin users: A retrospective cohort study using the Japanese claims database							utilization				
Ohbe 2021	Clinical Trajectories of Suicide Attempts and Self-harm in Patients Admitted to Acute-	DPC		Nationwide		2015	2017 Clinical epidemiology, course of	Medical treatment status	Others	patients hospitalized for suicide attempts or	Others	aged ≥10 years
	care Hospitals in Japan: A Nationwide Inpatient Database Study						diseases			selfharm		
Miyawaki 2021	Changes in Surgeries and Therapeutic Procedures During the COVID-19 Outbreak: A	MDV		Nationwide		2019	2020 Medical treatment status	COVID-19	Others	number of surgeries during the COVID-19		
	Longitudinal Study of Acute Care Hospitals in Japan									outbreak		
Koizumi 2019	Tranexamic acid and post-tonsillectomy hemorrhage: propensity score and instrumental	DPC		Nationwide		2010	2016 Intervention effect		Others	patients who had undergone tonsillectomy	Others	excluded aged more
	variable analyses											than 61 years
Shiragami	[An empirical study reviewing factors impacting coverage of the topical adhesive patch by	JMDC		Nationwide		2008	2010 Medical treatment status	Health policy evaluation and	Others	topical adhesive patch		
2013	health insurance]							utilization				
Mizuno 2019	Indications and outcomes of paediatric tracheotomy: a descriptive study using a	JMDC		Nationwide		2005	2017 Medical treatment status	Intervention effect	Others	tracheotomy	Children	aged 0–15 years
	Japanese claims database											
	Cost Analysis of Transplantation in Japan, Performed With the Use of the National	NDB		Nationwide		2009	2010 Health economics		Others	Transplantation		
Kitazawa 2017	Database	NDB		Hationinae								

Supplement file 5 List of frequently occurring diseases

1) Certain infectious and parasitic diseases	hepatitis B and C, sepsis/ septic shock
2) Neoplasms	cancer (general), colon cancer, liver cancer, lung cancer
3) Diseases of the blood and blood-forming organs and certain disorders involving	disseminated intravascular coagulation (DIC)
the immune mechanism	
4) Endocrine, nutritional and metabolic diseases	diabetes (with dental, hypertension, kidney outcomes etc.), obesity
5) Mental, Behavioral and Neurodevelopmental disorders	psychiatric disorders (general), psychotropic/ antidepressant/ antipsychotics,
	depressive disorders, schizophrenia, dementia
6) Diseases of the nervous system	dementia (Alzheimer disease), Parkinson's Disease
7) Diseases of the eye and adnexa	glaucoma
8) Diseases of the ear and mastoid process	otitis media
9) Diseases of the circulatory system	cardiovascular diseases (general), atrial fibrillation, cardiac arrest, heart failure,
	myocardial infarction, coronary syndrome/ intervention, hypertension, ischemic
	stroke, stroke cases
10) Diseases of the respiratory system	asthma, COPD, influenza, respiratory infections, pneumonia (including aspiration
	pneumonia)
11) Diseases of the digestive system	acute pancreatitis, dental, gastrointestinal bleeding
12) Diseases of the skin and subcutaneous tissue	atopic dermatitis, psoriasis
13) Diseases of the musculoskeletal system and connective tissue	osteoporosis, rheumatoid arthritis
14) Diseases of the genitourinary system	chronic kidney disease (CKD), dialysis
15) Pregnancy, childbirth and the puerperium	psychiatric disorders in pregnancy (psychotropics, antidepressant)
16) Certain conditions originating in the perinatal period	(diverse diseases)
17) Congenital malformations, deformations and chromosomal abnormalities	(diverse diseases)
18) Injury, poisoning and certain other consequences of external causes	fracture (particularly hip fracture)
19) Others (multidisease, not focused on specific diseases)	antimicrobial use, healthcare costs, hospitalizations/ ICU, multidisease, not
	specified

Supplement file 6 Research theme by diseases

	*m	edical ti	reatme*in	tervent	ion effe*cl	inical e	pidemi *h	ealth eo	conomi *he	ealth po	licy ev *q	uality of	care *re	esearch	metho *p	atient h	ealth s *so	cioecon	omic *pre	ediction	i mod∈*CC	VID-19	9 *ot	hers	
	Total n	%	n	%	n n	%	'n	%	ó n	%	n n	%	n	%	n	%	'n	%	n	%	n	%	n	%	
1) Certain	117	37	31.6	24	20.5	51	43.6	21	17.9	11	9.4	6	5.1	5	4.3	0	0.0	1	0.9	2	1.7	2	1.7	0	0.0
2) Neoplas	162	52	32.1	55	34.0	31	19.1	22	13.6	19	11.7	7	4.3	8	4.9	3	1.9	6	3.7	3	1.9	0	0.0	1	0.6
3) Disease	19	4	21.1	11	57.9	4	21.1	1	5.3	0	0.0	1	5.3	1	5.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4) Endocri	171	45	26.3	44	25.7	60	35.1	24	14.0	7	4.1	9	5.3	8	4.7	21	12.3	6	3.5	1	0.6	1	0.6	0	0.0
5) Mental,	110	54	49.1	23	20.9	28	25.5	14	12.7	17	15.5	9	8.2	2	1.8	7	6.4	5	4.5	1	0.9	0	0.0	2	1.8
6) Disease	69	27	39.1	22	31.9	19	27.5	11	15.9	6	8.7	6	8.7	2	2.9	1	1.4	2	2.9	2	2.9	0	0.0	1	1.4
7) Disease	22	8	36.4	5	22.7	5	22.7	2	9.1	1	4.5	1	4.5	1	4.5	5	22.7	0	0.0	0	0.0	0	0.0	0	0.0
3) Disease	4	1	25.0	3	75.0	1	25.0	0	0.0	2	50.0	1	25.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
9) Disease	281	65	23.1	99	35.2	84	29.9	25	8.9	37	13.2	19	6.8	13	4.6	15	5.3	9	3.2	4	1.4	2	0.7	0	0.0
10) Diseas	135	35	25.9	47	34.8	46	34.1	14	10.4	8	5.9	11	8.1	3	2.2	4	3.0	2	1.5	6	4.4	3	2.2	0	0.0
11) Diseas	115	24	20.9	52	45.2	29	25.2	24	20.9	11	9.6	12	10.4	3	2.6	4	3.5	1	0.9	1	0.9	0	0.0	0	0.0
12) Diseas	17	8	47.1	6	35.3	5	29.4	6	35.3	1	5.9	0	0.0	0	0.0	2	11.8	1	5.9	0	0.0	0	0.0	0	0.0
13) Diseas	93	28	30.1	33	35.5	39	41.9	15	16.1	4	4.3	4	4.3	1	1.1	5	5.4	2	2.2	1	1.1	0	0.0	0	0.0
14) Diseas	75	16	21.3	32	42.7	29	38.7	10	13.3	6	8.0	5	6.7	0	0.0	2	2.7	2	2.7	3	4.0	0	0.0	0	0.0
15) Pregna	25	11	44.0	8	32.0	10	40.0	1	4.0	1	4.0	0	0.0	0	0.0	0	0.0	2	8.0	0	0.0	0	0.0	0	0.0
16) Certaiı	8	2	25.0	4	50.0	1	12.5	1	12.5	1	12.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	12.5	0	0.0
17) Conge	13	3	23.1	5	38.5	4	30.8	1	7.7	2	15.4	1	7.7	1	7.7	0	0.0	0	0.0	1	7.7	0	0.0	1	7.7
18) Injury,	110	15	13.6	48	43.6	47	42.7	10	9.1	10	9.1	2	1.8	5	4.5	0	0.0	3	2.7	2	1.8	0	0.0	3	2.7
19) Others	238	74	31.1	38	16.0	38	16.0	38	16.0	62	26.1	11	4.6	30	12.6	15	6.3	17	7.1	12	5.0	4	1.7	2	0.8

*up to two diseases/ theme could be choose