

Databases available for pharmacoepidemiology researches in Japan (information obtained from survey answers as of August 2024)

	Hospital-based												Insurance-based							Pharmacy-based					
	NHO NCDA/MIA	DPC-RG	MID-NET	Tokushukai	LDI	DATuM IDEA	4DIN	MDV	JMDC	JMDC(EMR)	TXP Medical	JAMDAS	NDB	JMDC	Cross Fact	JammNet	MDV	DeSC	IQVIA Claims data	REZULT	Cross Fact	IQVIA NPA data	Nihon-Chouzai	JMDC	
Database organizer	National Hospital Organization	DPC-RG	Pharmaceuticals and Medical Devices Agency	Tokushukai Information System Incorporated	Life Data Initiative	TOPPAN Holdings Inc.	4DIN Ltd.	Medical Data Vision Co., Ltd.	JMDC.Inc	HCEI/JMDC.Inc	TXP	M3, Inc.	Ministry of Health, Labour and Welfare	JMDC.Inc	INTAGE Real World Inc.	JammNet	Medical Data Vision Co., Ltd.	DeSC Healthcare, Inc.	IQVIA Solutions Japan G.K.	Japan System Techniques Co., Ltd.	INTAGE Real World Inc.	IQVIA Solutions Japan G.K.	Nihon Medical Research Institute CO., LTD.	JMDC.Inc	
Database name	National Hospital Organization Clinical Data Archives: NCDA/Medical Information Analytics: MIA	DPC-RG database	Medical Information Database Network (MID-NET)	Tokushukai Medical Database	Millennium Medical Record	DATuM IDEA®	4DIN Research Network	EBM Provider®	JMDC Hospital Database	JMDC Electronic medical record database	TXP Medical Database	Japan Medical Data Survey	National Database of Health Insurance Claims and Specific Health Checkups of Japan	JMDC Payer database	Croaa Fact	JammNet database	EBM Provider®	DeSC database	IQVIA Claims data	REZULT	Cross Fact	IQVIA NPA data	NIHON CHOUZAI Prescription Database	JMDC Pharmacy Database	
Contact information	700-dbproject@mail.hosp.go.jp	kfushimi.hci@tmd.ac.jp	wakaru-midnet@pmda.go.jp	contact@ldi.or.jp	https://yqib.f.mgs.jp/n/form/yqib/7SRNK Ekw-tac-cUJ9G7K	info@4din.com	ebm_sales@mdv.co.jp	mdbhelp@jmdc.co.jp	mdbhelp@jmdc.co.jp	medical-data-service@bpmmedical.com	https://docs.google.com/forms/d/e/1FAIpQLScovVjAMoxK_EV4kGwKqKSISeudtc69JUCF7m5Kh p9AwDQ/viewform	https://www.mhbw.go.jp/stf/seisakunit/suite/bunya/kenkou_ryou/ryouhoken/reseputo/index.html	mdbhelp@jmdc.co.jp	iw-info@intage.com	support@jamm-net.co.jp	ebm_sales@mdv.co.jp	rwe-sales@desc-hc.co.jp		rezult@jast.co.jp	iw-info@intage.com		sokei-info@jmedri.co.jp	mdbhelp@jmdc.co.jp		
Web site URL	https://nho.hosp.go.jp/cn1-1_00070.html	None	https://www.pmda.go.jp/safety/mid-net/0001.html	https://www.tokushukai.com/service/tmd.php	https://www.ldi.or.jp/	https://datumidea.jp/	https://4din.com/	https://www.mdv.co.jp/	https://www.phm-jmdc.com/	https://www.phm-jmdc.com/	https://medical-dataservice.com/	https://corporate.m3.com/	https://www.mhbw.go.jp/stf/seisakunit/suite/bunya/kenkou_ryou/ryouhoken/reseputo/index.html	https://www.phm-jmdc.com/	https://www.intage-realworld.co.jp/	https://www.jamm-net.co.jp/	https://www.mdv.co.jp/	https://desc-hc.co.jp/archives/publication	www.iqvia.co.jp	https://www.jastlab-jast.jp/data_sell/	https://www.intage-realworld.co.jp/	www.iqvia.co.jp	https://www.jpmedri.co.jp/	https://www.phm-jmdc.com/	
DOI of articles about the database	DOI:10.2147/CLEP.S359072		10.1002/pds.4777, 10.1002/pds.4879		https://doi.org/10.3820/jipe.27_3			http://dx.doi.org/10.1002/jgf2.367		http://dx.doi.org/10.1002/jgf2.367	https://doi.org/10.1002/ams2.554		http://dx.doi.org/10.1002/jgf2.422		None			10.31662/maj.2021-0189			None				
Database Overview	General description of the database	Clinical database based on 77 NHO hospital information systems and 140 DPC/receipt data	This database is made up of DPC data collected voluntarily from approximately 1,500 DPC hospitals. It includes Form 1, EF files, D files, etc.	The medical information Database network system for utilizing in safety assessment managed by PMDA under the Act on the Pharmaceuticals and Medical Devices Agency	Tokushukai group is comprised of 76 hospitals in Japan, and the group manages the medical database with 15 million patients. Tokushukai works on research and AI development by using medical, management, and clinical data of the hospitals.	Millennial Medical Record is conducted under the law "The Next Generation Medical Infrastructure Act" Our dataset is including DPC survey data, Claims data and electric medical records. Beneficial for outcome study and elaborate stratification of patients by laboratory test results – blood test, urine test and unstructured text data. In addition, medical images have been available starting in FY2024.	We handle anonymously processed medical information obtained from certified next-generation medical infrastructure providers. As approximately half of the facilities covered are regional cancer center hospitals, our electronic medical record database contains a large amount of treatment data for cancer and rare diseases.	Network to collect, deidentify and summarize various data from medical institutions	Administrative database for inpatient and outpatient consists of 519 acute (mainly considered as "advanced treatment hospitals") hospitals in Japan	A case database sourced from more than 1,000 DPC/in-on-DPC hospitals nationwide. Includes abundant information on elderly and hospitalized patients.	Integrated database of medical information such as electronic medical records, DPC data, and claims	A comprehensive, hospital-based database including university and tertiary care hospitals. It includes DPC data and provides data access to approximately 900 laboratory data for all inpatients, structured emergency department/intensive care unit data, vital signs, medical records, bacterial culture test data, and blood product usage data. It supports acute diseases, cancer, and rare diseases. TXP requests statistical data from medical institutions and provides such statistical data as a service.	The Japan Medical Data Survey is a real-world database that provides an accurate and real-time overview of what is happening in the healthcare field throughout Japan.	Database of health insurance claims and specific health checkups for preparation, implementation, and evaluation of medical cost optimization plan	Japan's largest epidemiological database consisting of receipts, health checkup results, and subscriber registers from insurers nationwide. The database has excellent patient traceability (up to 17 years), and its population includes healthy people, making it possible to examine the prevalence and incidence of diseases. It is also linked to the PRO Panel, which enables direct approaches to patients through questionnaires and article distribution.	Database based on health insurance, include of all receipt(except of Organ transplant patient and comment field for all patients.	An insurance claims database that utilizes the insurance system, as well as limited data on the elderly	Health claims database from inpatient, outpatient, and pharmacy claims consists of 179 health insurance societies in Japan. We can also provide a database of anonymized processed information created from the DeSC database's receipt data, health checkup data, and subscriber ledgers.	A database of anonymized processed information based on receipt data, annual medical checkup data, and enrollment information collected from multiple Employee Health Insurance, National Health Insurance, and Latter-Stage Elderly Healthcare System. PRO data and life log data can be provided as options.	Claims data consists of 264 health insurance societies in Japan. It can be integrated with DeSC database which is comprised of receipt data, medical checkup data and subscriber ledgers. We can also provide the integrated Claims data as OMOP version which is suitable for international database research.	It consists of data that has been anonymized from receipt data and health checkup data issued when members belonging to an insurance company visit a medical institution. In addition to using it for joint research and product development, the database can also be sold.	Pharmacy claims database contains extramural dispense records	Pharmacy claims database collecting dispense claims from 11,210 pharmacies nationwide. # of prescriptions: 185 million in 2023.	The database is based on outpatient prescriptions from medical institutions, various surveys of patients, DTC (direct to consumer), and other sources. NIHON CHOUZAI is Japan's second largest dispensing group, with a chain of 743 stores in Japan.	A dispensing database that uses prescriptions and receipts from dispensing pharmacies across the country as its source.
Data source	DPC (Format 1)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	
	DPC (EF file)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	
	Medical claim	Yes	No	Yes	Yes	Yes	Limited	Yes	Yes	Yes	Limited	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	
	Dental claim	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Limited	No	Yes	Yes	Yes	Yes	Yes	No	No	No	
	Pharmacy claim	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Electronic medical chart	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	
	Lab test results	Yes	No	Yes	Yes	Yes	Yes	Limited	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	
	Ordering	No	No	Yes	Yes	Yes	Limited	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	
	Health checkup	Yes	No	No	Yes	No	No	No	Yes	Limited	No	No	Yes	Yes	Limited	No	Limited	Limited	Limited	Limited	No	No	No	No	
	Others	No	No	No	Yes	Yes	Limited	Yes	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	
	Others, notes				An electric medical records also include unstructured text data such as Progress notes, Clinical summary /Discharge summary and Medical reference letter etc. In addition, medical images have been available starting in FY2024.			DPC (Dfile) /DPC claims/blood test data *Blood test data is limited to some hospitals			Next Stage ER, Next Stage ICU. A multicenter integrated standard database that accumulates clinical data while performing clinical tasks in emergency and ICU services.		Medical questionnaire			DPC Receipt and partially available ledger information	DPC Receipt	DPC claims and partially available ledger information	Life-log of HL, QOL, WPAI, FSGI, number of steps, blood glucose level, blood pressure, and body weight data can be used in Employee Health Insurance (EHI) and National Health Insurance(NHI).	DPC claims, partially subscriber ledger information		Pharmaceutical delivery quantity, Patient Survey			
Data collected from	Medical institution	Medical institution	Medical institution	Medical institution	Medical institution	Medical institution	Medical institution	Medical institution	Medical institution	Medical institution	Medical institution	Medical institution	Others	Health insurance association	Health insurance association	Health insurance association	Health insurance association	Health insurance association	Health insurance association	Health insurance association	Pharmacy	Pharmacy	Pharmacy	Pharmacy	
Others, notes												Non-bed clinics	Insurance claims and special health checkups and specific health guidance data from all health insurance associations								Pharmacy				
Number of organizations	140	1500	33	76	64	54		519	1001	220	35	5000		335	203		179	378	264	170	3259	11210	743	6314	
Data period	Starting year 2016 Latest year 2024	2010 2022	2009 2024	2010 2024	2015 2024	2019 2023	Before 2000 2024	2008 2024	Before 2000 2024	Before 2000 2024	2017 2024	2017 2024	2008 2024	2005 2024	2010 2024	2008 2024	2012 2024	2014 2023	2012 2024	2010 2024	2015 2024	2015 2024	2001 2024	2021 2024	
Notes	Starting year MIA : 2011				Limited to patients consent to policy about opting out after July 2020. It is possible to collect previous medical data once a patient has visited the hospital.		By participating hospitals	*Mainly from April 2010			NEXT Stage ER data is from the year of introduction onward, thus there are a few facilities with data prior to 2017.							The maximum data period is 9 years, and its minimum is 1 year.			Part of the data is available from April 2008.	Data up to the previous day can be provided			

	Hospital-based												Insurance-based								Pharmacy-based			
	NHO NCDA/MIA	DPC-RG	MID-NET	Tokushukai	LDI	DATuM IDEA	4DIN	MDV	JMDC	JMDC(EMR)	TXP Medical	JAMDAS	NDB	JMDC	Cross Fact	JammNet	MDV	DeSC	IQVIA Claims data	REZULT	Cross Fact	IQVIA NPA data	Nihon-Chouzai	JMDC
Laws and regulations related to the data provision to third parties		Act on the Protection of Personal Information, Ethical Guidelines for Medical Research, The Next Generation Medical Infrastructure Act	Others	Act on the Protection of Personal Information, Ethical Guidelines for Medical Research	The Next Generation Medical Infrastructure Act	The Next Generation Medical Infrastructure Act	Act on the Protection of Personal Information	Others	Act on the Protection of Personal Information	Act on the Protection of Personal Information	Act on the Protection of Personal Information, Ethical Guidelines for Medical Research, Others		Others	Act on the Protection of Personal Information	Act on the Protection of Personal Information		Others	Act on the Protection of Personal Information, Ethical Guidelines for Medical Research	Act on the Protection of Personal Information	Others	Act on the Protection of Personal Information	Act on the Protection of Personal Information		Act on the Protection of Personal Information
Notes			We collect data and provide it to third parties based on Act on Pharmaceuticals and Medical Devices Agency, also with attention to the persons whose electronic medical records was acquired.					We do not provide or receive special care-required personal information to or from third parties.			Provision to third parties as statistical data that does not include personal information		Act on Assurance of Medical Care for Elderly People				We do not provide or receive special care-required personal information to or from third parties.							
Handling anonymously processed information	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Compliance with the laws and regulations on third-party data provision		Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Size																								
Number of unique identifiers (approx., 10K people)	500	9900	800	1500	253	120	875	4827	3800	1430	2600	8000	12000	2000	1172.2	230	930	1540	1675	931	4153	9723	2300	3643
Notes		This is the total number of admissions and discharges from 2009 to 2022, not the number of patients.			The number of unique identifiers covers facilities that have become available for use from among the 64 contracted hospitals.	1.2 million					Based on the number of patients at the 17 facilities where data were obtained, the number of patients at the 35 facilities with data use agreements was estimated.		Almost equal to total population in Japan		Health insurance membership approx 13.5 million			Person who is enrolled at least once during the data period.	Cumulative number of patients during the data period		Net number of patients since April 2015	The registrants are not fixed because patients who visit pharmacies are targeted.		
Annual number of unique identifiers (latest year) (approx., 10K people)	200	688		163		27	70	1236	1035	340	110	1561		1420	969		467	800	773	479	1292	3782	220	2070
The latest year	2021	2022		2023		2022	2023	2023	2023	2023	2023	2023		2023	2023		2023	2023	2023	2023	2023	2023	2023	2023
Notes		This is the total number of admissions and discharges for the latest year, not the number of patients.						April 2023-March 2024	April 2023 - March 2024	April 2023 - March 2024	Based on the number of patients at the 27 facilities where data were obtained, the number of patients at the 35 facilities with data use agreements was estimated.			April 2023 - March 2024	January 2023 to December 2023 Net number of patients approx 5.2 million		April 2023-March 2024	Numbers were rounded to the nearest whole number.	Number of patients from April 2023 to March 2024	2023	August 2023 to July 2024	approx. 37,820,000	April 2023 to March 2024	April 2023 - March 2024
% coverage of population	NCDA: 2.1% of Japanese population, MIA: approx. 17% of Japanese population	Approximately 80% of acutely hospitalized patients			8.4%. It covers 34 out of 407 DPC hospitals with 400 beds or more nationwide. According to the estimated figures for the size of DPC hospitals and preparatory hospitals (as of June 1, 2024) by Central Social Insurance Medical Council.	It covers 0.78% of the Japanese population as of September 2023. It covers 35 out of 753 medical facilities nationwide with 400 or more beds, accounting for 4.6% (according to the Hospital Report of the 2023 Survey on the Status of Medical Institutions).		• about 9.9% of Japanese population • about 29.1% of total number for acute hospitals	8% of the number of DPC and non-DPC hospitals			5% (Clinics in Japan)		Approx. 8% of the Japanese population Approx. 34% of health insurance association members	Covers 9.43% of the total population in Japan (total population in 2023)	About 2% of the nation's health insurance associations	about 3.8% of Japanese population	Coverage ratio is EHI: 2.8% NHI: 13.7% LSEHS: 20.5% The denominator is number of members for each insurance. (Reference: January 2023, Ministry of Health, Labor and Welfare, "Basic Data on Medical Insurance," https://www.mhlw.go.jp/content/kiso_r02.pdf)	Approx. 6.2% of the Japanese population		7% of annual prescription (Survey by Japan Pharmaceutical Association)	approx. 21.9% of total extramural dispense claims (based on Survey by Japan Pharmaceutical Association)	Approx. 2.0% of the estimated number of outpatient prescriptions by the Japan Pharmaceutical Association	Approximately 7% of all pharmacies in Japan
Annual N of outpatients (latest year) (approx., 10K people)	200			157	93.2		66	1187	988	326	35	1561		1220	517.6	200	467	649	771	457	1292		220	2070
Annual N of inpatients (latest year) (approx., 10K people)	63			25	92.7		12	239	176	59	110	0		89	26.6	3	25	60	39	25				
Annual N of medicated diabetes patients (latest year) (approx., 10K people)				7	4.4	4.6	5	83	65	22	0.1			72	15.9	12	15	102	25	14	66		25	89
Definition			2023. The number of patients with ICD10-J09-J11 newly added to the name of the receipt disease. (no duplicates) (Not including suspected disease)	The number of patients diagnosed with ICD10: E10-E14 (excluding suspected cases) and prescribed ATC: A10 medications.	Number of patients with diabetes (E10-E14) registered as having an illness and prescribed A10 diabetes medication	The number of patients with the disease of ICD10 E10-E14 (Exclude suspected cases) and ATC-A10 drugs prescribed	• Target disease: ICD10: E10-E14 (exclude suspected cases) • Target medication: ATC (EphMRA): A10 • Condition for target patients: Target medication was prescribed in the same month as the diagnosis of the target disease.	Number of patients with ICD-10:E10-E14 disease (excluding suspected) and prescribed ATC:A10 drugs	Number of patients with ICD-10:E10-E14 disease (excluding suspected) and prescribed ATC:A10 drugs	Calculated at 10 medical facilities using ICD10 codes E10-E14 for the DPC main disease. Estimates expanded to 35 facilities where data is available.			Number of patients with ICD-10:E10-E14 disease (excluding suspected) and prescribed ATC:A10 drugs	ICD-10:E10-E14 and EphmraATC: A10	ICD10: E10-E14 ATC: A10	• Target disease: ICD10: E10-E14 (exclude suspected cases) • Target medication: ATC (EphMRA): A10 • Condition for target patients: Target medication was prescribed in the same month as the diagnosis of the target disease.	The disease and drug are defined as below: diabetes: ICD-10 code E10-E14 antidiabetic drug: ATC code A10 Treated diabetes patient is defined as a person who is diagnosed as diabetes(not including suspected disease) and prescribed antidiabetic drug in the same month during 2023 at least once. Numbers were rounded to the nearest whole number.	• Data period: April 2023 - March 2024 • Diagnosis: Diabetes (ICD10: E10-E14) • Prescription: Antidiabetic drug (ATC(EphMRA): A10)	Patients prescribed diabetes treatment	Patients prescribed diabetic medications	ATC Code: A10 Number of patients prescribed diabetes medications			
Annual N of influenza diagnosed patients (latest year) (approx., 10K people)				7	0.3	0.8	0.1	22	20	7.13	0.5			173	77.8	7	85	15	129	84	62		11	106
Definition			2023. The number of patients with ICD10-J09-J11 newly added to the name of the receipt disease. (no duplicates) (Not including suspected disease)	The number of patients diagnosed with ICD-10: J09-J11 (excluding suspected cases).	We aggregated cases registered with ICD-10 codes J09 to J11 for the latest year, 2022. It has been reported that the number of influenza patients in Japan was low in 2022.	The number of patients with the disease of ICD10 J10, J11 (Exclude suspected cases) or the number of patients that a Influenza medicine was prescribed	ICD10: J10, J11 Target medication was prescribed in the same month as the diagnosis of the target disease.	Number of patients assigned ICD-10:J09-J11 disease	Number of patients assigned ICD-10:J09-J11 disease	Calculated at 10 medical facilities using ICD10 codes J09-J11 for the DPC main disease. Estimates expanded to 35 facilities where data is available.			Number of patients assigned ICD-10:J09-J11 disease	ICD-10:J10-J11	ICD: J09,J10,J11	ICD10: J10, J11	The disease is defined as below: Influenza: ICD-10 code J09, J10, J11 Influenza patient is defined as a person who is diagnosed as influenza during 2023 at least once. Numbers were rounded to the nearest whole number.	ICD-10: J09,J10,J11	Patients prescribed anti-influenza drugs	Number of prescriptions for anti-influenza drugs	Number of prescriptions for anti-influenza drugs			

	Hospital-based												Insurance-based								Pharmacy-based				
	NHO NCDA/MIA	DPC-RG	MID-NET	Tokushukai	LDI	DATuM IDEA	4DIN	MDV	JMDC	JMDC(EMR)	TXP Medical	JAMDAS	NDB	JMDC	Cross Fact	JammNet	MDV	DeSC	IQVIA Claims data	REZULT	Cross Fact	IQVIA NPA data	Nihon-Chouzai	JMDC	
Number of patients followed																									
≥1 year [approx., 10K people]				58	146.6	60		2046	1150	788		1024		1900	860.3	210	714	1192	1310	758	742		156		
≥3 year [approx., 10K people]					91	34		1339	600	543		396		1200	557.5	180	503	826	906	536	495		105		
≥5 year [approx., 10K people]					43.7			865	270	372		142		837	362.4	160	356	532	633	384	284		75		
Median [approx., year]					1.4	1		2.2						3.17	2.67	10	4.4	3.2	3.4	3.75	1.7		5		
Notes							Average			Median is calculated excluding patients with only one visit (average is about 4.9 years)					Up to 16 years	Average	Numbers were rounded to the nearest whole number.			Patients from August 2023 to July 2024		Number of registered patients per year: 2.2 million			
Age Distribution																									
0 - 14 years old [approx., %]	7			11	12	11.9	9.1	14.2	9	9	10	13.8		14	18.5	20	20.1	4.8	16	20	15	14.9	11.4	16	
15 - 64 years old [approx., %]	38			47	43	39.1	55.1	50.4	41	48	42	64.6		67	77.46	60	76.6	40.34	78	77	53	54.2	54.6	55	
65 - 74 years old [approx., %]	25			15	16	17.5	13.3	16.1	18	17	20	9		4	3.98	20	3.3	16.98	6	3	13	12.9	14.1	12	
75 years old or older [approx., %]	30			27	29	31.8	22.5	19.3	32	26	28	12.6		15	0.06	10	0	37.88	0	0	19	18	19.9	18	
Notes				We use the data (2023, Jan-Dec).			Age distribution of patients in the latest year				Distribution of 10 facilities that have already acquired data out of 35 contracted facilities with available data						April 2023-March 2024	Numbers were rounded to the nearest whole number.			Net patient based				
Prescriptions (data availability)																									
Dispensing (in-hospital)	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	
Dispensing (out-of-hospital)	Yes	No		Yes	Limited	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Date of prescription	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Date of dispensing	Yes	No	No	Yes	Limited	Yes	Limited	Yes	Limited	Yes	Limited	Yes	Limited	Yes	Limited	Yes	Limited	Yes	Limited	Yes	Yes	Yes	Yes	Yes	
Dosage of prescription	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Days of supply	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Administration	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Limited	Limited	Yes	Yes	No	Limited	Yes	Limited	No	Limited	Limited	Yes	Yes	No	Yes	Yes	
Injection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Limited	Limited	Yes	Limited	
Vaccine	Limited	No	Limited	Limited	Yes	Limited	Limited	No	Limited	Limited	Yes	Yes	No	No	No	No	No	Limited	No	No	No	No	No	No	
Drug master																									
Any available master	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
ATC (EphMRA)	No	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
ATC (WHO)	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Limited	No	Yes	Yes	Yes	Limited	No	Yes	Yes	
YJ code	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	
NHI drug price list code	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	
HOT code	Yes	No	Yes	Yes	No	Yes	Yes	No	No	No	Yes	No	No	No	No	Yes	No	No	No	No	No	No	No	No	
Reimbursement code	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	
Hospital-original code	Yes	No	Yes	Yes	No	Yes	Yes	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
Others	No	No					No	Yes	No	No	Yes	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	
Others, notes					ingredient	Quantity		Master			Titer							Titer							
Procedures (data availability)																									
Procedure name	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
Date of procedure	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
Procedure master																									
Any available master	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
Reimbursement category	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	
Reimbursement code	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	
Others	No	No			Limited	Yes	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	
Others, notes					Not only information that can be obtained from the claims data, but also detailed procedure information from the electronic medical record.								Minute-by-minute time series of procedures performed in the emergency room / ICU (limited facilities)												
Hospitalization (data availability)																									
Date of hospital admission	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Limited	Yes	Yes	Yes	Yes	Yes	Yes	Limited	No	No	No	No
Date of hospital discharge	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Limited	Limited	Yes	Yes	Yes	Limited	Yes	Limited	No	No	No	No	
Medication while hospitalization	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	
Diagnosis (data availability)																									
Diagnosis name	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
Suspicious diagnosis or not	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
Diagnosis master																									
Any available master	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	
Standard diagnosis code (Reimbursement code)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	
ICD10 code (2013)	Limited	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	
ICD10 code (other than 2013)	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	
Others		No			Limited		No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
Others, notes					It is possible to obtain accurate diagnoses and subtypes from electronic medical record. This is because in claims data, correct diagnoses may not always be recorded.								The "Clinical Diagnosis" and "History and Underlying Medical Conditions" information determined by the physician in the emergency room/ICU is automatically corrected based on ICD-10 codes.												
Laboratory test (data availability)																									
Lab test (ordering)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No	No	No	No	No	
Lab test results																									
Any available test results	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	
Lab test for sample (e.g., blood, urine, microbe)	Yes	No	Yes	Yes	Yes	Yes	Limited	Yes	Yes	Yes	Yes	Yes					No					No			
Physiological test (e.g., respiratory function, brain waves, supersonic waves)	No	No	No		Limited		Limited	No	Limited	Limited	Limited	Limited					No					No			
Results of diagnostic imaging (e.g., report of imaging interpretation)	No	No	No		Limited		Limited	No	Limited	Limited	Limited	No					No					No			
Genetic test (pathological tissue)	No	No	No		Limited		Limited	No	Limited	Limited	Limited	No					No					No			

	Hospital-based												Insurance-based								Pharmacy-based				
	NHO NCDA/MIA	DPC-RG	MID-NET	Tokushukai	LDI	DATuM IDEA	4DIN	MDV	JMDC	JMDC(EMR)	TXP Medical	JAMDAS	NDB	JMDC	Cross Fact	JammNet	MDV	DeSC	IQVIA Claims data	REZULT	Cross Fact	IQVIA NPA data	Nihon-Chouzai	JMDC	
Others	No	No			Limited		No	No	No	No	No						No					No			
Others, notes					Medical images have been available starting in FY2024. The following test result information can be obtained from electronic medical record: e.g.) *Genetic mutations, chromosomal abnormalities *Qualitative assessment for antibody, antigen and PCR test. *Biopsy Information																				
Lab test master																									
Any available master	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	
Loinc code	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
JLAC code	Yes	No	Yes	Limited	No	Yes	No	Yes	Yes	Yes	Limited	No	Yes	No	No	No	No	No	No	No	No	No	No	No	
Reimbursement code	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Hospital-original code	Yes	No	Yes	Yes	Limited	Yes	Yes	Yes	No	Yes	Limited	No	No	No	No	No	No	No	No	No	No	No	No	No	
Others, notes		No			No		No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
Demographic, Vital (data availability)																									
Birth year	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Limited	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Birth month	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Limited	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes
Birth date	Yes	Yes	Yes	No	No	Yes	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Age	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Limited	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Limited	Yes	Yes
Height	Yes	Yes	Yes	Limited	Yes	Yes	Limited	Limited	Limited	Yes	Yes	Yes	No	Limited	Limited	Limited	No	Limited	Limited	Limited	Limited	No	No	Limited	No
Weight	Yes	Yes	Yes	Limited	Yes	Yes	Limited	Limited	Limited	Yes	Yes	Yes	No	Limited	Limited	Limited	No	Limited	Limited	Limited	Limited	No	No	Limited	No
Blood pressure	Yes	No	No	Limited	Yes	Limited	Limited	Limited	No	Limited	Yes	Yes	No	No	Limited	No	No	Limited	Limited	Limited	Limited	No	No	Limited	No
Insurers for patients																									
National health insurance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Limited	No	No	Limited	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes
Japan health insurance association	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Limited	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Health insurance society	Yes	Yes	Yes	Yes	Yes	Limited	Yes	Yes	Yes	Yes	Yes	Yes	Limited	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mutual society of health insurance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Limited	No	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Late-stage medical care system for the elderly	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Limited	Yes	No	Limited	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes
Data Access, Others																									
Access to raw data via web	No	No	No		No	Yes	Yes	Limited	Yes	Yes	No	No	No	Yes	Yes	Yes	Limited	Yes	Yes	Limited	Yes	Limited	Yes	Limited	Yes
Access to original source data such as medical charts (e.g., outcome validation, additional data collection)	Yes	No	No	Yes	Limited	Limited	Limited	Limited	Limited	Limited	Limited	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No
Timing of data update	Daily	Annually	every week at the earliest	Daily	Monthly	Update every quarter	Monthly	Monthly	Monthly	Monthly	3 months	Daily	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Daily	Weekly	
Others, notes											Retrieve the most recent information maintained in the electronic medical record at the time of access.							The database is updated monthly, but the frequency of data provision from insurers is different, so the frequency of updating is not uniform.							
Latest data	Previous day		No lag time	No lag time	2 months ago		1 month ago	2 months ago	2 months ago	1 month ago		2 days ago		2 months ago	2.5 months ago	3 months ago	3 months ago	7 months ago	3 months ago	3 months ago	1 month ago	1 month ago	Previous day	4 days ago	
Publication																									
Presentation		Many		Many	11	2	12	Many	Many	16	46		Many	Many	A few	There is more than one	Multiple	178 (as of the end of July 2024)	Multiple	21	Many	Many	Many		
Publication to peer review journal	12	Many	Therapeutic Innovation & Regulatory Science, PLOS ONE, Frontiers in Medicine.	Many	5	2	42	580 (total number of publications, including those not requiring peer review.)	17	34	28 (as TXP Research / Collaboration)	5	Many	731	A few		Multiple	46(as of the end of July 2024)	Multiple	3	Many	4 (as of Aug., 2024)	Many		