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A case of RWD use in post-marketing study as PV activity in Japan

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- 1. Databases available in Japan
- 2. A case of post-marketing database study
- 3. Consideration for the future

DBs available for PE researches in Japan



Databases available for pharmacoepidemiology researches in Japan (information obtained from suvey answers as of August 2020)

	Hospital-based										
	NHO NCDA	NHO MIA	4DIN	HCEI/RWD	LDI	MID-NET	MDV	JMDC	NCD	NDB	
			(5.0.)				(Hospital based)	(Hospital based)	1105		4
Database organizer	NHO	NHO	4DIN	Real World Data, Co.,	Life Data Initiative	Pharmaceuticals and	Medical Data Vision	JMDC Inc.	NCD	Ministry of Health,	
			(a.k.a. CCT)	Ltd.		Medical Devices Agency	Co., Ltd.			Labour and Welfare	
Database name	NCDA	MIA	4DIN Research	RWD database	Millennium Medical	Medical Information	EBM Provider®	JMDC hospital	National Clinical	National Database of	+
Database name	NODA	1910A	Network	TWD database	Record	Database Network	EDIVITIONICET®	database	Database	Health Insurance	
						(MID-NET)				Claims and Specific	
						(Health Checkups of	
										Japan	
Contact information	700-dbpeojct	700-dbproject	info@4din.com	info@rwdata.co.jp	contact@ldi.or.jp	wakaru-midnet	ebm_sales@mdv.co.j	mdbhelp@jmdc.co.jp	http://www.ncd.or.jp/	suisin@mhlw.go.jp	m
	@mail.hosp.go.jp	@mail.hosp.go.jp				@pmda.go.jp	р				
Web site URL	https://nho.hosp.go.jp/	https://nho.hosp.go.jp/	https://4din.com/	https://rwdata.co.jp/	https://www.ldi.or.jp/	https://www.pmda.go.jp	https://www.mdv.co.jp/	https://www.jmdc.co.jp/	http://www.ncd.or.jp/	https://www.mhlw.go.jp	/ http
	cnt1-1 000070.html	<u>cnt1-1 000070.html</u>				/safety/mid-				stf/seisakunitsuite/bur	1
						net/0001.html				ya/kenkou iryou/iryou	1
										hoken/reseputo/index. html	*
Database Overview										nuni	—
General description of	Clinical database	Administrative	Network to collect, de-	Integrated database	Database consists of	The medical	Administrative	Claims database	Multidiciplinary	Database of health	Cla
the database	based on 66 NHO	database for inpatient	identify and		DPC.claimes and	information Database			registry platform	insurance claims and	cor
	hospital information	and outpatient	summarize various	such as electronic	electric records from	network system for	and outpatient	and outpatients from	initially developed by	specific health	sut
	systems	consists of 141 NHO	data from medical	medical record, claims	univercity	utilizing in safety	consists of 419 acute		surgery related	checkups for	em
	-,	hospitals in Japan.	institutions	and DPC data.	hospitals.cancer	assessment managed	(mainly considered as	acute hospitals	professional societies	preparation.	Ins
					hospitals	by PMDA under the	"advanced treatment	'	in Japan. Currently	implementation and	as
						Act on the	hospitals")		managing nationwide	evaluation of medical	
						Pharmaceuticals and	hospitals in Japan		registries for various	cost optimization plan	
						Medical Devices			surgeries,		
						Agency.			interventions,		
									pathology, as well as		
									cancer registries.		
									Also collects hospital		
									based DPC / claims		
									data which can be		
									used together with the		
									registry data for		
									research.		
Data source											
DPC (Fomat 1)	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	-
DPC (EF file) Medical claim	No No	Yes Yes	Yes Limited	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes	No Yes	-
	No	No	Limited	No	No	No	No	No	Yes No	Yes	-
Pharmacy claim Electronic medical	Yes	No	Limited	Yes	Yes	Yes	No	No	No	No	+
chart	Tes	INU	Limited	Tes	Tes	Tes	INO	INO	INU	NO	
Lab test results	Yes	No	Limited	Yes	Yes	Yes	Limited	Yes	No	No	
Ordering	No	No	Limited	Yes	Yes	Yes	No	No	No	No	-
Health checkup	No	No	No	Limited	No	No	No	No	No	Yes	1
Registry	No	No	Limited	No	No	No	No	No	Yes	No	1
Others	No	No	No	No	Yes	Yes	Yes	Yes	No	No	1
Data source:				Pathological diagnosis		DPC (F file)	DPC(Dfile)/DPC	H file	N		Elig

<Reference>

Survey of Japanese databases in Japan available for clinical/pharmaco-epidemiology The website of Japanese Society for Pharmacoepidemiology URL: https://www.jspe.jp/mt-static/FileUpload/files/JSPE_DB_TF_E.pdf 4

Outline of MID-NET®





Establishment of the MID-NET[®] medical information database network as a reliable and valuable database for drug safety assessments in Japan Pharmacoepidemiol Drug Saf. 2019 Oct;28(10):1395-1404.

A case of post-marketing database study



◆ <u>Risk management plan of PRALIA®</u>

製造販売後データベース調査(低カルシウム血症) 【安全性検討事項】 低カルシウム血症	Post-marketing database study (Important identified risk : Hypocalcemia)
 【目的】 関節リウマチ罹患患者を対象集団とし、2017年7月3日 された患者群での低カルシウム血症発現リスクの程度を、 較して評価する。 【実施計画】 データベース: MID-NET データ期間: 2016年7月~2020年12月 	
調査のデザイン:コホート研究 調査対象集団:関節リウマチ罹患患者 曝露群:本剤初回投与患者 対照群:本剤非投与患者 想定症例数:曝露群 約1,000 例、対照群 約8,000 例 アウトカム定義に用いるデータ項目: 低カルシウム血症(血清カルシウム値<8.50mg/dL)	



Aim of this DB study using MID-NET[®]

- ✓ To investigate risk of hypocalcemia in patients administrated PRALIA[®] compared with control patients
- ✓ To investigate status of implementation of serum Ca test in the real world





<u>Study objective</u>

<u>To evaluate the degree of hypocalcemia risk</u> in the patients with rheumatoid arthritis who are treated for the first time with PRALIA[®] in or after July 2017 in comparison with the patients not treated with PRALIA[®].

Research question

	r		
Patient	Patients with rheumatoid arthritis		
Intervention / Exposure	Treatment with PRALIA®		
Comparison	Not treatment with PRALIA®		
Outcome	Hypocalcemia (Serum calcium<8.50mg/dL)		
Timing (Data period)	From July 2016 to December 2020		

What is strong point of DB study?



Strong point of DB study

- ✓ It's possible to realize more timely data collection than primary data collection.
- Lower cost than primary data collection.
- Important point when conducting DB study
- \checkmark Reliability of data sources
- ✓ Validity/definition of outcome

We can create meaningful safety-information/evidence for patients and physicians by utilization of RWD appropriately.



The needs for utilizing RWD will increase more in the future.

- Using various data sources in a study for PV
- Routine pharmacovigilance activity (e.g. Safety signal detection/management)
- ✓ KAB(knowledge activity behavior) survey

Expectation

 Activation of <u>sharing the knowledge and</u> <u>exchanging the opinion</u> regarding RWD use with Asia countries especially China.