

Medical College of Wisconsin Empirical Data Characterization Summary

Table IA. Demographic Summary

This table contains general descriptive information about the patients in the DEMOGRAPHIC table. These patients may or may not be represented in other CDM tables.

	N	%	Source table
Patients	1,056,802		DEM_L3_N
Age			DEM_L3_AGEYRSDIST1
Mean	47		
Median	48		
Age group			DEM_L3_AGEYRSDIST2
0-4	22,783	2.1	
5-14	61,600	5.8	
15-21	55,339	5.2	
22-64	667,103	63.2	
65+	249,861	23.7	
Missing	116	0.0	
Hispanic			DEM_L3_HISPDIST
N (No)	913,705	86.5	
Y (Yes)	42,937	4.1	
Missing or Refused	100,160	9.4	
Sex			DEM_L3_SEXDIST
F (Female)	567,925	53.7	
M (Male)	488,506	46.2	
Missing or Ambiguous	371	0.0	
Race			DEM_L3_RACEDIST
White	724,704	68.6	
Non-White	183,334	17.4	
Missing or Refused	148,764	14.1	

Table excludes records with values outside of CDM specifications.

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Table IB. Potential Pools of Patients

This table illustrates the number of patients meeting different inclusion criteria and supports data checks 3.04 and 3.05. Data check exceptions are highlighted in red and must be corrected.

Metric	Metric Description	Result	Source table
Potential pool of patients for observational studies	Number of unique patients with at least 1 ED, EI, IP, or AV encounter within the past 5 years	645,168	ENC_L3_DASH2
Potential pool of patients for trials	Number of unique patients with at least 1 ED, EI, IP, or AV encounter within the past 1 year	334,917	ENC_L3_DASH2
Potential pool of patients for studies requiring data on diagnoses, vital measures and (a) medications or (b) medications and lab results	Number of unique patients with at least 1 ED, EI, IP, or AV encounter and DIAGNOSIS and VITAL records within the past 5 years	584,478	XTBL_L3_DASH1
	Number of unique patients with at least 1 encounter and DIAGNOSIS, VITAL, and PRESCRIBING or DISPENSING records within the past 5 years	507,201	XTBL_L3_DASH2
	Number of unique patients with at least 1 encounter and DIAGNOSIS, VITAL, PRESCRIBING or DISPENSING, and LAB_RESULT_CM records within the past 5 years	307,354	XTBL_L3_DASH3
Patients with diagnosis data	Percentage of patients with encounters who have at least 1 diagnosis	93%	ENC_L3_N; DIA_L3_N
Patients with procedure data	Percentage of patients with encounters who have at least 1 procedure	91%	ENC_L3_N; PRO_L3_N

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Table IC. Height, Weight, and Body Mass Index

This table contains descriptive statistics and frequencies of VITAL table measurements.

	Result	%	Source table
Height measurements			VIT_L3_HT_DIST
Records	4,039,787		
Height (inches), mean	65		
Height (inches), median	66		
Weight measurements			VIT_L3_WT_DIST
Records	7,546,898		
Weight (lbs.), mean	174		
Weight (lbs.), median	174		
Body Mass Index (BMI) measurements			VIT_L3_BMI
Records	6,117,202		
BMI <=25	2,092,524	34.2	
BMI 26-30	1,743,148	28.5	
BMI >=31	2,281,530	37.3	

Table excludes records with null or missing values.

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Table ID. Records, Patients, Encounters, and Date Ranges by Table

This table contains summary counts and date ranges by table. The Encounters column shows the number of distinct ENCOUNTERIDS in each table. ENCOUNTERID is required for ENCOUNTER, DIAGNOSIS, and PROCEDURES and optional for VITAL, PRESCRIBING and DISPENSING. Missingness for ENCOUNTERID is depicted in Table IVD.

Table	Records	Patients	Encounters	Data Range			Source Tables
				Field name	Min	Max	
DEMOGRAPHIC	1,056,802	1,056,802	---	BIRTH_DATE	1918_Apr	2017_Mar	DEM_L3_N; XTBL_L3_DATES
ENROLLMENT	1,056,802	1,056,802	---	ENR_START_DATE	2004_Jan	2017_Apr	ENR_L3_N; XTBL_L3_DATES
ENCOUNTER	61,464,731	1,056,802	61,464,731	ADMIT_DATE	2004_Jan	2017_Apr	ENC_L3_N; XTBL_L3_DATES
DIAGNOSIS	80,730,678	980,514	40,672,553	ADMIT_DATE	2004_Jan	2017_Apr	DIA_L3_N; XTBL_L3_DATES
PROCEDURES	110,919,900	965,983	35,616,317	ADMIT_DATE	2004_Jan	2017_Mar	PRO_L3_N; XTBL_L3_DATES
DEATH	73,222	73,222	---	DEATH_DATE	1930_Aug	2105_Mar	DEATH_L3_N; XTBL_L3_DATES
VITAL	25,647,575	732,923	8,832,013	MEASURE_DATE	2004_Jan	2017_Mar	VIT_L3_N; XTBL_L3_DATES
LAB_RESULT_CM	8,660,104	439,366	3,665,011	RESULT_DATE	2004_May	2016_Nov	LAB_L3_N; XTBL_L3_DATES
PRESCRIBING	21,690,013	550,040	7,710,164	RX_START_DATE	2004_Jan	2017_Apr	PRES_L3_N; XTBL_L3_DATES
DISPENSING	44,800,759	452,010	---	DISPENSE_DATE	2008_Jan	2017_Mar	DISP_L3_N; XTBL_L3_DATES

Table IE. Records Per Table By Encounter Type

This table contains record counts by encounter type for the ENCOUNTER, DIAGNOSIS, and PROCEDURES tables.

Encounter Type	ENCOUNTER		DIAGNOSIS		PROCEDURES	
	N	%	N	%	N	%
AV (Ambulatory Visit)	13,637,200	22.2	24,564,008	30.4	22,013,311	19.8
ED (Emergency Dept)	444,764	0.7	581,770	0.7	2,593,631	2.3
EI (ED to IP Stay)	0		0		0	
IP (Inpatient Hospital Stay)	263,541	0.4	3,285,614	4.1	15,112,712	13.6
IS (Non-acute Institutional Stay)	761	0.0	0		100	0.0
OA (Other Ambulatory Visit)	16,670,852	27.1	8,775,808	10.9	10,024,385	9.0
Missing, NI, UN or OT	30,447,613	49.5	43,523,478	53.9	61,175,761	55.2
Total	61,464,731		80,730,678		110,919,900	
Source table	ENC_L3_ENCTYPE		DIA_L3_ENCTYPE		PRO_L3_ENCTTPE	

Table IG. Lab Results

This table illustrates the number of records and number of unique patients for each LAB_NAME, and the percentage of patients in the ENCOUNTER table who have these results. Although there is not a required relationship between the ENCOUNTER and LAB_RESULT_CM tables, patients with encounters are the most relevant denominator for this table. LAB_NAME will be NULL or missing for lab results which do not correspond to a common lab measure.

LAB_NAME	Records	Percentage of records in the LAB_RESULT_CM table	Patients	Percentage of patients in the ENCOUNTER table	Source tables
A1C	469,729	5.4	111,013	10.5	LAB_L3_NAME;ENC_L3_N
CK	188,661	2.2	70,014	6.6	LAB_L3_NAME;ENC_L3_N
CK_MB	103,571	1.2	39,832	3.8	LAB_L3_NAME;ENC_L3_N
CK_MBI	20,734	0.2	9,179	0.9	LAB_L3_NAME;ENC_L3_N
CREATININE	3,076,032	35.5	373,767	35.4	LAB_L3_NAME;ENC_L3_N
HGB	2,863,551	33.1	379,421	35.9	LAB_L3_NAME;ENC_L3_N
INR	1,028,075	11.9	128,024	12.1	LAB_L3_NAME;ENC_L3_N
LDL	664,143	7.7	186,528	17.7	LAB_L3_NAME;ENC_L3_N
TROP_I	85,476	1.0	37,787	3.6	LAB_L3_NAME;ENC_L3_N
TROP_T_QL	0		0	0.0	LAB_L3_NAME;ENC_L3_N
TROP_T_QN	160,132	1.8	54,297	5.1	LAB_L3_NAME;ENC_L3_N
NULL or missing	0		0	0.0	LAB_L3_NAME;ENC_L3_N
Total	8,660,104		1,389,862		

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Table IIID. Encounters Per Visit and Per Patient

This table shows the number of encounters, patients, visits (unique combinations of PATID, ADMIT_DATE, ENC_TYPE, and PROVIDER_ID), encounters per patient, and encounters per visit by encounter type and supports Data Check 2.04. A high number of encounters per visit may signal potential redundancy or duplication. Data check exceptions are highlighted in blue and should be investigated.

Encounter Type	Encounters	Patients	Encounters per Patient	Encounters with known PROVIDERID	Visit (unique combinations of PATID, ENC_TYPE, ADMIT_DATE, and PROVIDERID)	Encounters with known PROVIDERID per visit	Source table
AV (Ambulatory Visit)	13,637,200	694,146	19.6	10,948,219	10,948,219	1.00	ENC_L3_ENCTYPE
ED (Emergency Dept)	444,764	219,451	2.0	1,057	1,057	1.00	ENC_L3_ENCTYPE
EI (ED to IP Stay)	0	0		0	0		ENC_L3_ENCTYPE
IP (Inpatient Hospital Stay)	263,541	142,373	1.9	263,057	263,057	1.00	ENC_L3_ENCTYPE
IS (Non-acute Institutional Stay)	761	573	1.3	761	761	1.00	ENC_L3_ENCTYPE
OA (Other Ambulatory Visit)	16,670,852	654,824	25.5	16,290,457	16,290,457	1.00	ENC_L3_ENCTYPE
Missing, NI, UN or OT	30,447,613	1,656,225	18.4	30,222,554	30,222,554	1.00	ENC_L3_ENCTYPE

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