

University of Wisconsin - Madison 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	2,656,176		DEM_L3_N
Age			DEM_L3_AGEYRSDIST1
Mean	51		
Median	50		
Age group			DEM_L3_AGEYRSDIST2
0-4	40,223	1.6	
5-14	156,692	5.9	
15-21	144,224	5.5	
22-64	1,517,344	57.1	
65+	756,077	28.5	
Missing	41,616	1.6	
Hispanic			DEM_L3_HISPDIST
N (No)	1,047,242	39.4	
Y (Yes)	61,312	2.3	
Missing or Refused	1,547,622	58.3	
Sex			DEM_L3_SEXDIST
F (Female)	1,355,091	51.0	
M (Male)	1,291,938	48.6	
Missing or Ambiguous	9,147	0.3	
Race			DEM_L3_RACEDIST
White	1,092,125	41.1	
Non-White	129,436	4.9	
Missing or Refused	1,434,615	54.0	

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	826,841	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	209,602	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	536,876	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	488,001	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	112,913	XTBL_L3_DASH3
Patients with diagnosis data	Percentage of patients with encounters who have at least 1 diagnosis	58%	ENC_L3_N; DIA_L3_N
Patients with procedure data	Percentage of patients with encounters who have at least 1 procedure	69%	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	4,116,462		
Height (inches), mean	60		
Height (inches), median	65		
Weight measurements			VIT_L3_WT_DIST
Records	8,710,949		
Weight (lbs.), mean	154		
Weight (lbs.), median	160		
Body Mass Index (BMI) measurements			VIT_L3_BMI
Records	5,862,851		
BMI <=25	2,617,313	44.6	
BMI 26-30	1,480,935	25.3	
BMI >=31	1,764,603	30.1	

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	2,656,176	2,656,176	---	BIRTH_DATE	1889_Jan	2017_Mar	DEM_L3_N; XTBL_L3_DATES
ENROLLMENT	2,028,603	2,028,603	---	ENR_START_DATE	1899_Jan	2017_Apr	ENR_L3_N; XTBL_L3_DATES
ENCOUNTER	90,104,220	2,613,691	90,104,220	ADMIT_DATE	1898_Jan	2017_Apr	ENC_L3_N; XTBL_L3_DATES
DIAGNOSIS	102,693,525	1,515,068	43,599,968	ADMIT_DATE	1986_Jan	2017_Mar	DIA_L3_N; XTBL_L3_DATES
PROCEDURES	99,204,706	1,814,757	84,944,857	ADMIT_DATE	1898_Feb	2017_Apr	PRO_L3_N; XTBL_L3_DATES
DEATH	132,236	132,236	---	DEATH_DATE	1970_Apr	2017_Mar	DEATH_L3_N; XTBL_L3_DATES
VITAL	12,820,598	928,691	12,820,598	MEASURE_DATE	1987_Jan	2017_Mar	VIT_L3_N; XTBL_L3_DATES
LAB_RESULT_CM	716,324	157,634	407,645	RESULT_DATE	1993_Feb	2116_Apr	LAB_L3_N; XTBL_L3_DATES
PRESCRIBING	72,382,951	894,877	1,953,123	RX_START_DATE	1987_Mar	2106_Jun	PRES_L3_N; XTBL_L3_DATES
DISPENSING	1,401,633	21,033	---	DISPENSE_DATE	2002_Feb	2017_Apr	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)	83,085,092	92.2	90,754,807	88.4	95,626,280	96.4
ED (Emergency Dept)	21,743	0.0	26,184	0.0	31,991	0.0
EI (ED to IP Stay)	474,288	0.5	2,042,231	2.0	948,295	1.0
IP (Inpatient Hospital Stay)	61,723	0.1	223,159	0.2	137,834	0.1
IS (Non-acute Institutional Stay)	87,872	0.1	655,952	0.6	274,611	0.3
OA (Other Ambulatory Visit)	0		0		0	
Missing, NI, UN or OT	6,373,502	7.1	8,991,192	8.8	2,185,695	2.2
Total	90,104,220		102,693,525		99,204,706	
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	67,324	9.4	42,476	1.6	LAB_L3_NAME;ENC_L3_N
CK	7,328	1.0	4,375	0.2	LAB_L3_NAME;ENC_L3_N
CK_MB	54	0.0	39	0.0	LAB_L3_NAME;ENC_L3_N
CK_MBI	BT		BT		LAB_L3_NAME;ENC_L3_N
CREATININE	314,710	43.9	128,695	4.9	LAB_L3_NAME;ENC_L3_N
HGB	251,095	35.1	109,037	4.2	LAB_L3_NAME;ENC_L3_N
INR	62,120	8.7	17,231	0.7	LAB_L3_NAME;ENC_L3_N
LDL	200	0.0	180	0.0	LAB_L3_NAME;ENC_L3_N
TROP_I	13,492	1.9	9,220	0.4	LAB_L3_NAME;ENC_L3_N
TROP_T_QL	0		0	0.0	LAB_L3_NAME;ENC_L3_N
TROP_T_QN	0		0	0.0	LAB_L3_NAME;ENC_L3_N
NULL or missing	0		0	0.0	LAB_L3_NAME;ENC_L3_N
Total					

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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)	83,085,092	1,787,872	46.5	83,085,092	83,085,092	1.00	ENC_L3_ENCTYPE
ED (Emergency Dept)	21,743	19,695	1.1	21,681	21,681	1.00	ENC_L3_ENCTYPE
EI (ED to IP Stay)	474,288	231,000	2.1	473,388	473,388	1.00	ENC_L3_ENCTYPE
IP (Inpatient Hospital Stay)	61,723	37,818	1.6	61,452	61,452	1.00	ENC_L3_ENCTYPE
IS (Non-acute Institutional Stay)	87,872	63,443	1.4	87,509	87,509	1.00	ENC_L3_ENCTYPE
OA (Other Ambulatory Visit)	0	0		0	0		ENC_L3_ENCTYPE
Missing, NI, UN or OT	6,373,502	2,608,265	2.4	6,222,007	6,222,007	1.00	ENC_L3_ENCTYPE

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