

University of Minnesota 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	2,022,848		DEM_L3_N
Age			DEM_L3_AGEYRSDIST1
Mean	41		
Median	40		
Age group			DEM_L3_AGEYRSDIST2
0-4	86,822*	4.3	
5-14	212,017	10.4	
15-21	155,151	7.7	
22-64	1,208,027	59.7	
65+	360,827	17.9	
Missing	0	0.0	
Hispanic			DEM_L3_HISPDIST
N (No)	1,606,515	79.4	
Y (Yes)	54,517	2.7	
Missing or Refused	361,816	17.9	
Sex			DEM_L3_SEXDIST
F (Female)	1,068,623	52.8	
M (Male)	953,596	47.1	
Missing or Ambiguous	629	0.0	
Race			DEM_L3_RACEDIST
White	1,238,803	61.2	
Non-White	226,038	11.2	
Missing or Refused	558,007	27.6	

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	1,372,164	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	661,303	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	1,341,158	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	1,165,222	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	911,084	XTBL_L3_DASH3
Patients with diagnosis data	Percentage of patients with encounters who have at least 1 diagnosis	90%	ENC_L3_N; DIA_L3_N
Patients with procedure data	Percentage of patients with encounters who have at least 1 procedure	89%	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	9,979,480		
Height (inches), mean	62		
Height (inches), median	65		
Weight measurements			VIT_L3_WT_DIST
Records	14,837,153		
Weight (lbs.), mean	157		
Weight (lbs.), median	162		
Body Mass Index (BMI) measurements			VIT_L3_BMI
Records	19,671,707		
BMI <=25	8,533,534	43.4	
BMI 26-30	5,182,915	26.3	
BMI >=31	5,955,258	30.3	

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	2,022,848	2,022,848	---	BIRTH_DATE	1841_Jan	2017_May	DEM_L3_N; XTBL_L3_DATES
ENROLLMENT	2,022,848	2,022,848	---	ENR_START_DATE	1900_Dec	2017_Jun	ENR_L3_N; XTBL_L3_DATES
ENCOUNTER	94,179,194	2,012,696	94,179,194	ADMIT_DATE	1900_Dec	2114_Apr	ENC_L3_N; XTBL_L3_DATES
DIAGNOSIS	206,751,061	1,814,395	41,418,810	ADMIT_DATE	1930_Oct	2113_Jan	DIA_L3_N; XTBL_L3_DATES
PROCEDURES	170,450,807	1,787,161	29,933,176	ADMIT_DATE	2000_Oct	2050_Apr	PRO_L3_N; XTBL_L3_DATES
DEATH	76,532	76,532	---	DEATH_DATE	1901_May	2017_May	DEATH_L3_N; XTBL_L3_DATES
VITAL	105,740,498	1,655,689	31,874,114	MEASURE_DATE	1915_Feb	2023_Feb	VIT_L3_N; XTBL_L3_DATES
LAB_RESULT_CM	282,884,638	1,391,875	13,726,522	RESULT_DATE	1899_Dec	2017_May	LAB_L3_N; XTBL_L3_DATES
PRESCRIBING	67,017,951	1,399,794	18,189,589	RX_START_DATE	1840_Dec	2112_Sep	PRES_L3_N; XTBL_L3_DATES
DISPENSING	69,007,432	642,405	---	DISPENSE_DATE	2009_May	2017_May	DISP_L3_N; XTBL_L3_DATES

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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)	28,751,191	30.5	133,732,588	64.7	67,564,897	39.6
ED (Emergency Dept)	1,505,432	1.6	6,985,208	3.4	8,335,063	4.9
EI (ED to IP Stay)	186,517	0.2	7,874,135	3.8	30,754,411	18.0
IP (Inpatient Hospital Stay)	1,738,657	1.8	5,454,342	2.6	39,134,665	23.0
IS (Non-acute Institutional Stay)	8,249	0.0	319,254	0.2	2,585,004	1.5
OA (Other Ambulatory Visit)	24,739,895	26.3	33,959,443	16.4	13,239,778	7.8
Missing, NI, UN or OT	37,249,253	39.6	18,426,091	8.9	8,836,989	5.2
Total	94,179,194		206,751,061		170,450,807	
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	885,980	0.3	200,868	10.0	LAB_L3_NAME;ENC_L3_N
CK	175,705	0.1	81,008	4.0	LAB_L3_NAME;ENC_L3_N
CK_MB	697	0.0	546	0.0	LAB_L3_NAME;ENC_L3_N
CK_MBI	653	0.0	441	0.0	LAB_L3_NAME;ENC_L3_N
CREATININE	6,402,295	2.3	830,975	41.3	LAB_L3_NAME;ENC_L3_N
HGB	6,741,014	2.4	972,149	48.3	LAB_L3_NAME;ENC_L3_N
INR	2,499,854	0.9	256,796	12.8	LAB_L3_NAME;ENC_L3_N
LDL	1,888,373	0.7	480,906	23.9	LAB_L3_NAME;ENC_L3_N
TROP_I	715,446	0.3	200,610	10.0	LAB_L3_NAME;ENC_L3_N
TROP_T_QL	124	0.0	118	0.0	LAB_L3_NAME;ENC_L3_N
TROP_T_QN	0		0	0.0	LAB_L3_NAME;ENC_L3_N
NULL or missing	263,574,497	93.2	1,384,859	68.8	LAB_L3_NAME;ENC_L3_N
Total	282,884,638		4,409,276		

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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)	28,751,191	1,744,502	16.5	28,751,191	28,751,191	1.00	ENC_L3_ENCTYPE
ED (Emergency Dept)	1,505,432	500,747	3.0	1,505,432	1,505,432	1.00	ENC_L3_ENCTYPE
EI (ED to IP Stay)	186,517	106,189	1.8	186,517	186,517	1.00	ENC_L3_ENCTYPE
IP (Inpatient Hospital Stay)	1,738,657	232,159	7.5	1,738,657	1,738,657	1.00	ENC_L3_ENCTYPE
IS (Non-acute Institutional Stay)	8,249	5,327	1.5	8,249	8,249	1.00	ENC_L3_ENCTYPE
OA (Other Ambulatory Visit)	24,739,895	1,260,439	19.6	24,739,895	24,739,895	1.00	ENC_L3_ENCTYPE
Missing, NI, UN or OT	37,249,253	1,788,137	20.8	37,249,253	37,249,253	1.00	ENC_L3_ENCTYPE

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