

# University of Missouri 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	584,422		DEM_L3_N
Age			DEM_L3_AGEYRSDIST1
Mean	40		
Median	36		
Age group			DEM_L3_AGEYRSDIST2
0-4	23,851	4.0	
5-14	64,691	11.0	
15-21	56,102	9.6	
22-64	328,792	56.2	
65+	107,329	18.3	
Missing	3,657	0.6	
Hispanic			DEM_L3_HISPDIST
N (No)	0	0.0	
Y (Yes)	3,046	0.5	
Missing or Refused	581,376	99.5	
Sex			DEM_L3_SEXDIST
F (Female)	310,858	53.2	
M (Male)	270,275	46.2	
Missing or Ambiguous	3,289	0.6	
Race			DEM_L3_RACEDIST
White	455,545	77.9	
Non-White	52,631	9.1	
Missing or Refused	76,246	13.0	

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	426,850	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	185,424	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	382,264	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	63,029	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	38,453	XTBL_L3_DASH3
Patients with diagnosis data	Percentage of patients with encounters who have at least 1 diagnosis	85%	ENC_L3_N; DIA_L3_N
Patients with procedure data	Percentage of patients with encounters who have at least 1 procedure	77%	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	3,597,623		
Height (inches), mean	63		
Height (inches), median	66		
Weight measurements			VIT_L3_WT_DIST
Records	4,215,361		
Weight (lbs.), mean	238		
Weight (lbs.), median	160		
Body Mass Index (BMI) measurements			VIT_L3_BMI
Records	2,353,350		
BMI <=25	1,011,358	43.0	
BMI 26-30	516,484	21.9	
BMI >=31	825,508	35.1	

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	584,422	584,422	---	BIRTH_DATE	1926_Mar	2017_Feb	DEM_L3_N; XTBL_L3_DATES
ENROLLMENT	579,261	579,261	---	ENR_START_DATE	2010_Jan	2017_Mar	ENR_L3_N; XTBL_L3_DATES
ENCOUNTER	8,430,176	579,261	8,430,176	ADMIT_DATE	2010_Jan	2017_Mar	ENC_L3_N; XTBL_L3_DATES
DIAGNOSIS	19,884,403	490,707	4,965,134	ADMIT_DATE	2010_Jan	2017_Mar	DIA_L3_N; XTBL_L3_DATES
PROCEDURES	12,835,828	445,055	3,679,646	ADMIT_DATE	1899_Dec	2017_Mar	PRO_L3_N; XTBL_L3_DATES
DEATH	106,804	103,393	---	DEATH_DATE	1902_Jan	2017_Mar	DEATH_L3_N; XTBL_L3_DATES
VITAL	5,556,783	448,576	3,926,432	MEASURE_DATE	1999_Sep	2017_Mar	VIT_L3_N; XTBL_L3_DATES
LAB_RESULT_CM	3,593,806	227,671	928,779	RESULT_DATE	2009_May	2017_Mar	LAB_L3_N; XTBL_L3_DATES
DISPENSING	802,130	68,024	---	DISPENSE_DATE	2014_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)	6,967,840	82.7	11,953,308	60.1	7,160,013	55.8
ED (Emergency Dept)	425,530	5.0	3,014,713	15.2	1,223,097	9.5
EI (ED to IP Stay)	0		0		0	
IP (Inpatient Hospital Stay)	186,480	2.2	4,050,955	20.4	3,834,788	29.9
IS (Non-acute Institutional Stay)	0		0		0	
OA (Other Ambulatory Visit)	0		0		0	
Missing, NI, UN or OT	850,326	10.1	865,427	4.4	617,930	4.8
Total	8,430,176		19,884,403		12,835,828	
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
AIC	130,911	3.6	47,873	8.3	LAB_L3_NAME;ENC_L3_N
CK	141,984	4.0	41,297	7.1	LAB_L3_NAME;ENC_L3_N
CK_MB	122,008	3.4	34,042	5.9	LAB_L3_NAME;ENC_L3_N
CK_MBI	119,133	3.3	33,529	5.8	LAB_L3_NAME;ENC_L3_N
CREATININE	1,270,014	35.3	204,289	35.3	LAB_L3_NAME;ENC_L3_N
HGB	1,188,300	33.1	205,107	35.4	LAB_L3_NAME;ENC_L3_N
INR	293,491	8.2	80,255	13.9	LAB_L3_NAME;ENC_L3_N
LDL	156,021	4.3	67,306	11.6	LAB_L3_NAME;ENC_L3_N
TROP_I	15,665	0.4	5,554	1.0	LAB_L3_NAME;ENC_L3_N
TROP_T_QL	0		0	0.0	LAB_L3_NAME;ENC_L3_N
TROP_T_QN	156,279	4.3	39,579	6.8	LAB_L3_NAME;ENC_L3_N
NULL or missing	0		0	0.0	LAB_L3_NAME;ENC_L3_N
Total	3,593,806		758,831		

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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)	6,967,840	479,187	14.5	6,967,840	6,967,840	1.00	ENC_L3_ENCTYPE
ED (Emergency Dept)	425,530	163,098	2.6	425,530	425,530	1.00	ENC_L3_ENCTYPE
EI (ED to IP Stay)	0	0		0	0		ENC_L3_ENCTYPE
IP (Inpatient Hospital Stay)	186,480	106,019	1.8	186,480	186,480	1.00	ENC_L3_ENCTYPE
IS (Non-acute Institutional Stay)	0	0		0	0		ENC_L3_ENCTYPE
OA (Other Ambulatory Visit)	0	0		0	0		ENC_L3_ENCTYPE
Missing, NI, UN or OT	850,326	217,489	3.9	850,326	850,326	1.00	ENC_L3_ENCTYPE

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