University of Texas Southwestern Medical Center 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	2,437,549		DEM_L3_N
Age			DEM_L3_AGEYRSDIST1
Mean	34		
Median	31		
Age group			DEM_L3_AGEYRSDIST2
0-4	208,792*	8.5	
5-14	505,955	20.8	
15-21	254,879	10.5	
22-64	1,142,387	46.9	
65+	325,218	13.3	
Missing	317	0.0	
Hispanic			DEM_L3_HISPDIST
N (No)	1,018,237	41.8	
Y (Yes)	700,829	28.8	
Missing or Refused	718,483	29.5	
Sex			DEM_L3_SEXDIST
F (Female)	1,324,598	54.3	
M (Male)	1,100,095	45.1	
Missing or Ambiguous	12,856	0.5	
Race			DEM_L3_RACEDIST
White	1,141,038	46.8	
Non-White	421,636	17.3	
Missing or Refused	874,875	35.9	

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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	1,177,849	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	74,901	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	322,834	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	256,211	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	129,130	XTBL_L3_DASH3
Patients with diagnosis data	Percentage of patients with encounters who have at least 1 diagnosis	83%	ENC_L3_N; DIA_L3_N
Patients with procedure data	Percentage of patients with encounters who have at least 1 procedure	83%	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	3,267,056		
Height (inches), mean	66		
Height (inches), median	66		
Weight measurements			VIT_L3_WT_DIST
Records	3,775,089		
Weight (lbs.), mean	179		
Weight (lbs.), median	173		
Body Mass Index (BMI) measurements			VIT_L3_BMI
Records	3,475,612		
BMI <=25	1,286,135	37.0	
BMI 26-30	1,064,284	30.6	
BMI >=31	1,125,193	32.4	

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	Field name	Min	Max	Source Tables
				Data Range			
DEMOGRAPHIC	2,437,549	2,437,549	---	BIRTH_DATE	1840_Mar	2017_Apr	DEM_L3_N; XTBL_L3_DATES
ENROLLMENT	2,156,140	2,156,140	---	ENR_START_DATE	2010_Jan	2017_Mar	ENR_L3_N; XTBL_L3_DATES
ENCOUNTER	78,835,873	2,213,056	78,835,873	ADMIT_DATE	1699_Jan	2112_Apr	ENC_L3_N; XTBL_L3_DATES
DIAGNOSIS	203,865,649	1,829,902	41,071,576	ADMIT_DATE	1699_Jan	2022_May	DIA_L3_N; XTBL_L3_DATES
PROCEDURES	119,619,176	1,841,914	25,355,645	ADMIT_DATE	1699_Jan	2022_May	PRO_L3_N; XTBL_L3_DATES
DEATH	19,091	19,091	---	DEATH_DATE	1915_Jul	2017_Mar	DEATH_L3_N; XTBL_L3_DATES
VITAL	4,381,270	468,606	4,381,270	MEASURE_DATE	1999_Feb	2017_Apr	VIT_L3_N; XTBL_L3_DATES
LAB_RESULT_CM	6,089,552	286,416	1,876,894	RESULT_DATE	1699_Apr	2017_Apr	LAB_L3_N; XTBL_L3_DATES
PRESCRIBING	26,810,215	477,204	5,110,284	RX_START_DATE	1906_Aug	2403_Dec	PRES_L3_N; XTBL_L3_DATES
DISPENSING	37,200,677	515,036	---	DISPENSE_DATE	2009_Jun	2017_Apr	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)	33,192,599	42.1	89,472,487	43.9	47,606,227	39.8
ED (Emergency Dept)	2,344,394	3.0	8,021,850	3.9	2,620,767	2.2
EI (ED to IP Stay)	0		0		0	
IP (Inpatient Hospital Stay)	10,048,198	12.7	41,358,536	20.3	52,813,836	44.2
IS (Non-acute Institutional Stay)	0		0		0	
OA (Other Ambulatory Visit)	7,821,457	9.9	3,964,500	1.9	250,390	0.2
Missing, NI, UN or OT	25,429,225	32.3	61,048,276	29.9	16,327,956	13.6
Total	78,835,873		203,865,649		119,619,176	
Source table	ENC_L3_ENCTYPE		DIA_L3_ENCTYPE		PRO_L3_ENCTTPE	

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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	163,602	2.7	64,341	2.9	LAB_L3_NAME;ENC_L3_N
CK	169,013	2.8	44,693	2.0	LAB_L3_NAME;ENC_L3_N
CK_MB	166,400	2.7	39,987	1.8	LAB_L3_NAME;ENC_L3_N
CK_MBI	154,128	2.5	38,027	1.7	LAB_L3_NAME;ENC_L3_N
CREATININE	2,304,985	37.9	250,657	11.3	LAB_L3_NAME;ENC_L3_N
HGB	2,279,787	37.4	260,919	11.8	LAB_L3_NAME;ENC_L3_N
INR	448,380	7.4	77,309	3.5	LAB_L3_NAME;ENC_L3_N
LDL	164,076	2.7	59,918	2.7	LAB_L3_NAME;ENC_L3_N
TROP_I	131,424	2.2	40,210	1.8	LAB_L3_NAME;ENC_L3_N
TROP_T_QL	0		0	0.0	LAB_L3_NAME;ENC_L3_N
TROP_T_QN	107,757	1.8	28,575	1.3	LAB_L3_NAME;ENC_L3_N
NULL or missing	0		0	0.0	LAB_L3_NAME;ENC_L3_N
Total	6,089,552		904,636		

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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)	33,192,599	1,597,882	20.8	0	0		ENC_L3_ENCTYPE
ED (Emergency Dept)	2,344,394	762,635	3.1	0	0		ENC_L3_ENCTYPE
EI (ED to IP Stay)	0	0		0	0		ENC_L3_ENCTYPE
IP (Inpatient Hospital Stay)	10,048,198	906,039	11.1	0	0		ENC_L3_ENCTYPE
IS (Non-acute Institutional Stay)	0	0		0	0		ENC_L3_ENCTYPE
OA (Other Ambulatory Visit)	7,821,457	514,094	15.2	0	0		ENC_L3_ENCTYPE
Missing, NI, UN or OT	25,429,225	2,504,242	10.2	0	0		ENC_L3_ENCTYPE

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