

University of Kansas 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	2,260,014		DEM_L3_N
Age			DEM_L3_AGEYRSDIST1
Mean	56		
Median	58		
Age group			DEM_L3_AGEYRSDIST2
0-4	19,805	0.8	
5-14	79,863	3.5	
15-21	87,872	3.9	
22-64	1,175,024	52.0	
65+	863,031	38.2	
Missing	34,419	1.5	
Hispanic			DEM_L3_HISPDIST
N (No)	679,415	30.1	
Y (Yes)	65,737	2.9	
Missing or Refused	1,514,862	67.0	
Sex			DEM_L3_SEXDIST
F (Female)	1,249,868	55.3	
M (Male)	997,231	44.1	
Missing or Ambiguous	12,915	0.6	
Race			DEM_L3_RACEDIST
White	576,647	25.5	
Non-White	109,668	4.8	
Missing or Refused	1,573,699	69.6	

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	536,239	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	148,561	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	473,966	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	445,984	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	279,824	XTBL_L3_DASH3
Patients with diagnosis data	Percentage of patients with encounters who have at least 1 diagnosis	75%	ENC_L3_N; DIA_L3_N
Patients with procedure data	Percentage of patients with encounters who have at least 1 procedure	73%	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	3,750,664		
Height (inches), mean	65		
Height (inches), median	66		
Weight measurements			VIT_L3_WT_DIST
Records	4,111,940		
Weight (lbs.), mean	174		
Weight (lbs.), median	174		
Body Mass Index (BMI) measurements			VIT_L3_BMI
Records	3,918,078		
BMI <=25	1,425,628	36.4	
BMI 26-30	1,103,795	28.2	
BMI >=31	1,388,655	35.4	

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	Data Range			Source Tables
				Field name	Min	Max	
DEMOGRAPHIC	2,260,014	2,260,014	---	BIRTH_DATE	1862_Jan	2017_Feb	DEM_L3_N; XTBL_L3_DATES
ENROLLMENT	386,695	386,695	---	ENR_START_DATE	2010_Jan	2017_Mar	ENR_L3_N; XTBL_L3_DATES
ENCOUNTER	20,355,187	829,166	20,355,187	ADMIT_DATE	2010_Jan	2017_Apr	ENC_L3_N; XTBL_L3_DATES
DIAGNOSIS	31,086,853	622,288	6,474,387	ADMIT_DATE	2010_Jan	2017_Mar	DIA_L3_N; XTBL_L3_DATES
PROCEDURES	23,731,186	601,256	5,851,309	ADMIT_DATE	2010_Jan	2017_Mar	PRO_L3_N; XTBL_L3_DATES
DEATH	217,685	217,685	---	DEATH_DATE	1899_Jan	2100_Dec	DEATH_L3_N; XTBL_L3_DATES
VITAL	23,167,183	560,449	5,442,323	MEASURE_DATE	2010_Jan	2017_Mar	VIT_L3_N; XTBL_L3_DATES
LAB_RESULT_CM	96,502,167	356,738	2,240,395	RESULT_DATE	1931_May	2017_Mar	LAB_L3_N; XTBL_L3_DATES
PRESCRIBING	62,258,988	536,396	5,259,325	RX_START_DATE	1840_May	2114_Apr	PRES_L3_N; XTBL_L3_DATES
DISPENSING	12,493,874	281,403	---	DISPENSE_DATE	2013_May	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)	6,199,139	30.5	17,626,960	56.7	11,579,623	48.8
ED (Emergency Dept)	264,759	1.3	1,933,531	6.2	1,155,579	4.9
EI (ED to IP Stay)	92,099	0.5	3,542,205	11.4	3,770,795	15.9
IP (Inpatient Hospital Stay)	421,484	2.1	5,577,795	17.9	5,808,944	24.5
IS (Non-acute Institutional Stay)	45,632	0.2	182,657	0.6	49,605	0.2
OA (Other Ambulatory Visit)	11,986,603	58.9	1,109,900	3.6	704,656	3.0
Missing, NI, UN or OT	1,345,471	6.6	1,113,805	3.6	661,984	2.8
Total	20,355,187		31,086,853		23,731,186	
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	186,394	0.2	76,685	9.2	LAB_L3_NAME;ENC_L3_N
CK	113,467	0.1	36,957	4.5	LAB_L3_NAME;ENC_L3_N
CK_MB	31,918	0.0	14,594	1.8	LAB_L3_NAME;ENC_L3_N
CK_MBI	0		0	0.0	LAB_L3_NAME;ENC_L3_N
CREATININE	2,783,350	2.9	287,756	34.7	LAB_L3_NAME;ENC_L3_N
HGB	2,724,589	2.8	291,354	35.1	LAB_L3_NAME;ENC_L3_N
INR	660,501	0.7	98,526	11.9	LAB_L3_NAME;ENC_L3_N
LDL	364,659	0.4	127,206	15.3	LAB_L3_NAME;ENC_L3_N
TROP_I	249,756	0.3	55,115	6.6	LAB_L3_NAME;ENC_L3_N
TROP_T_QL	0		0	0.0	LAB_L3_NAME;ENC_L3_N
TROP_T_QN	81	0.0	41	0.0	LAB_L3_NAME;ENC_L3_N
NULL or missing	89,387,452	92.6	352,121	42.5	LAB_L3_NAME;ENC_L3_N
Total	96,502,167		1,340,355		

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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)	6,199,139	586,606	10.6	5,621,778	5,621,778	1.00	ENC_L3_ENCTYPE
ED (Emergency Dept)	264,759	126,932	2.1	239,293	239,293	1.00	ENC_L3_ENCTYPE
EI (ED to IP Stay)	92,099	48,988	1.9	91,954	91,954	1.00	ENC_L3_ENCTYPE
IP (Inpatient Hospital Stay)	421,484	117,083	3.6	394,313	394,313	1.00	ENC_L3_ENCTYPE
IS (Non-acute Institutional Stay)	45,632	4,296	10.6	4,284	4,284	1.00	ENC_L3_ENCTYPE
OA (Other Ambulatory Visit)	11,986,603	571,162	21.0	8,938,565	8,938,565	1.00	ENC_L3_ENCTYPE
Missing, NI, UN or OT	1,345,471	505,048	2.7	381,392	381,392	1.00	ENC_L3_ENCTYPE

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