

University of Nebraska 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	982,194		DEM_L3_N
Age			DEM_L3_AGEYRSDIST1
Mean	51		
Median	53		
Age group			DEM_L3_AGEYRSDIST2
0-4	23,272	2.4	
5-14	61,072	6.2	
15-21	54,493	5.5	
22-64	512,901	52.2	
65+	330,456	33.6	
Missing	0	0.0	
Hispanic			DEM_L3_HISPDIST
N (No)	447,498	45.6	
Y (Yes)	35,302	3.6	
Missing or Refused	499,394	50.8	
Sex			DEM_L3_SEXDIST
F (Female)	522,440	53.2	
M (Male)	452,425	46.1	
Missing or Ambiguous	7,323*	0.7	
Race			DEM_L3_RACEDIST
White	398,312	40.6	
Non-White	63,217	6.5	
Missing or Refused	520,665	53.0	

Table excludes records with values outside of CDM specifications.

Cell counts between 1 and the low-cell count threshold are displayed as BT and treated as missing.

Sums which include BT values are marked with an asterisk (*), either accompanying the sum of all above-threshold values or alone if all values are BT.

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	431,870	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	131,375	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	416,303	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	287,474	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	143,823	XTBL_L3_DASH3
Patients with diagnosis data	Percentage of patients with encounters who have at least 1 diagnosis	98%	ENC_L3_N; DIA_L3_N
Patients with procedure data	Percentage of patients with encounters who have at least 1 procedure	93%	ENC_L3_N; PRO_L3_N

Table excludes records with values outside of CDM specifications.

Cell counts between 1 and the low-cell count threshold are displayed as BT and treated as missing.

Sums which include BT values are marked with an asterisk (*), either accompanying the sum of all above-threshold values or alone if all values are BT.

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	4,454,290		
Height (inches), mean	65		
Height (inches), median	66		
Weight measurements			VIT_L3_WT_DIST
Records	5,908,364		
Weight (lbs.), mean	178		
Weight (lbs.), median	177		
Body Mass Index (BMI) measurements			VIT_L3_BMI
Records	7,219,168		
BMI <=25	2,496,603	34.6	
BMI 26-30	1,965,940	27.2	
BMI >=31	2,756,625	38.2	

Table excludes records with null or missing values.

Cell counts between 1 and the low-cell count threshold are displayed as BT and treated as missing.

Sums which include BT values are marked with an asterisk (*), either accompanying the sum of all above-threshold values or alone if all values are BT.

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	982,194	982,194	---	BIRTH_DATE	1841_Feb	2017_Jan	DEM_L3_N; XTBL_L3_DATES
ENROLLMENT	157,142	157,142	---	ENR_START_DATE	2012_Mar	2016_Dec	ENR_L3_N; XTBL_L3_DATES
ENCOUNTER	2,848,151	444,170	2,848,151	ADMIT_DATE	2011_May	2017_Mar	ENC_L3_N; XTBL_L3_DATES
DIAGNOSIS	7,099,626	434,732	2,784,438	ADMIT_DATE	2011_May	2017_Mar	DIA_L3_N; XTBL_L3_DATES
PROCEDURES	7,965,046	413,712	2,577,279	ADMIT_DATE	2011_May	2017_Jan	PRO_L3_N; XTBL_L3_DATES
DEATH	231,919	231,919	---	DEATH_DATE	1915_Dec	2017_Jan	DEATH_L3_N; XTBL_L3_DATES
VITAL	22,632,732	532,647	2,472,071	MEASURE_DATE	1868_May	2017_Jan	VIT_L3_N; XTBL_L3_DATES
LAB_RESULT_CM	11,409,027	485,087	284,576	RESULT_DATE	1994_Oct	2016_Sep	LAB_L3_N; XTBL_L3_DATES
PRESCRIBING	2,316,753	214,826	685,149	RX_START_DATE	1911_Sep	2017_Apr	PRES_L3_N; XTBL_L3_DATES
DISPENSING	16,968,852	275,768	---	DISPENSE_DATE	2009_Apr	2017_Jan	DISP_L3_N; XTBL_L3_DATES

Cell counts between 1 and the low-cell count threshold are displayed as BT and treated as missing.

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)	2,395,473	84.1	5,637,569	79.4	3,531,322	44.3
ED (Emergency Dept)	296,811	10.4	438,111	6.2	694,852	8.7
EI (ED to IP Stay)	72,799	2.6	544,255	7.7	1,717,733	21.6
IP (Inpatient Hospital Stay)	82,584	2.9	478,840	6.7	2,020,422	25.4
IS (Non-acute Institutional Stay)	484	0.0	851	0.0	717	0.0
OA (Other Ambulatory Visit)	0		0		0	
Missing, NI, UN or OT	0		0		0	
Total	2,848,151		7,099,626		7,965,046	
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	305,332	2.7	84,854	19.1	LAB_L3_NAME;ENC_L3_N
CK	388,895	3.4	98,188	22.1	LAB_L3_NAME;ENC_L3_N
CK_MB	289,651	2.5	74,277	16.7	LAB_L3_NAME;ENC_L3_N
CK_MBI	0		0	0.0	LAB_L3_NAME;ENC_L3_N
CREATININE	4,008,008	35.1	401,395	90.4	LAB_L3_NAME;ENC_L3_N
HGB	4,298,881	37.7	443,177	99.8	LAB_L3_NAME;ENC_L3_N
INR	1,297,488	11.4	176,373	39.7	LAB_L3_NAME;ENC_L3_N
LDL	538,041	4.7	148,049	33.3	LAB_L3_NAME;ENC_L3_N
TROP_I	282,731	2.5	69,522	15.7	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	11,409,027		1,495,835		

Table excludes records with values outside of CDM specifications.

Cell counts between 1 and the low-cell count threshold are displayed as BT and treated as missing.

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)	2,395,473	356,801	6.7	2,275,065	2,275,065	1.00	ENC_L3_ENCTYPE
ED (Emergency Dept)	296,811	135,539	2.2	295,203	295,203	1.00	ENC_L3_ENCTYPE
EI (ED to IP Stay)	72,799	42,147	1.7	72,796	72,796	1.00	ENC_L3_ENCTYPE
IP (Inpatient Hospital Stay)	82,584	59,695	1.4	82,583	82,583	1.00	ENC_L3_ENCTYPE
IS (Non-acute Institutional Stay)	484	382	1.3	BT	BT		ENC_L3_ENCTYPE
OA (Other Ambulatory Visit)	0	0		0	0		ENC_L3_ENCTYPE
Missing, NI, UN or OT	0	0		0	0		ENC_L3_ENCTYPE

Cell counts between 1 and the low-cell count threshold are displayed as BT and treated as missing.

Sums which include BT values are marked with an asterisk (*), either next to the sum of the above-threshold values or alone if all values are BT.