

**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	1,088,703		DEM_L3_N
Age			DEM_L3_AGEYRSDIST1
Mean	42		
Median	40		
Age group			DEM_L3_AGEYRSDIST2
0-4	43,989	4.0	
5-14	126,332	11.6	
15-21	96,035	8.8	
22-64	583,101	53.6	
65+	238,692	21.9	
Missing	554	0.1	
Hispanic			DEM_L3_HISPDIST
N (No)	823,130	75.6	
Y (Yes)	40,297	3.7	
Missing or Refused	225,276	20.7	
Sex			DEM_L3_SEXDIST
F (Female)	569,819	52.3	
M (Male)	517,966	47.6	
Missing or Ambiguous	918	0.1	
Race			DEM_L3_RACEDIST
White	817,803	75.1	
Non-White	101,836	9.3	
Missing or Refused	169,064	15.6	

The four 'flavors of null' defined in the CDM are combined in the missing categories shown here, but details are available in the source tables.

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.

Age is calculated as current age or age at death if death date is known. If multiple death records exist, the earlier death date is used.

Percentages are sums of the percentages in the source table and are subject to rounding errors.

Race distribution is shown for all patients and for patients seen after Meaningful Use standards were widely implemented.

**Table IA. Demographic Summary (continued)**

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
Race among patients with at least 1 encounter after December 2011			XTBL_L3_RACE_ENC
White	738,522	75.6	
Non-White	94,085	9.7	
Missing or Refused	144,583	14.8	
Gender Identity			DEM_L3_GENDERDIST
GQ (Genderqueer/Non-Binary)	0	0.0	
M (Man)	0	0.0	
W (Woman)	0	0.0	
MU (Multiple gender categories), SE (Something else), TF (Transgender female/Trans woman/Male-to-female), or TM (Transgender male/Trans man/Female-to-male)	0	0.0	
Missing or Refused	1,088,703	100.0	
Sexual Orientation			DEM_L3_ORIENTDIST
Bisexual	0	0.0	
Gay	0	0.0	
Lesbian	0	0.0	
Queer	0	0.0	
Straight	0	0.0	
AS (Asexual), MU (Multiple sexual orientations), SE (Something else), QS (Questioning)	0	0.0	
Missing or Refused	1,088,703	100.0	

The four 'flavors of null' defined in the CDM are combined in the missing categories shown here, but details are available in the source tables.

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Age is calculated as current age or age at death if death date is known. If multiple death records exist, the earlier death date is used.

Percentages are sums of the percentages in the source table and are subject to rounding errors.

Race distribution is shown for all patients and for patients seen after Meaningful Use standards were widely implemented.

### Table IB. Potential Pools of Patients

This table illustrates the number of patients meeting different inclusion criteria and supports Data Check 3.04 (less than 50% of patients with encounters have DIAGNOSIS records) and Data Check 3.05 (less than 50% of patients with encounters have PROCEDURES records). 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, OS, or AV encounter within the past 5 years	678,764	ENC_L3_DASH2
Potential pool of patients for trials	Number of unique patients with at least 1 ED, EI, IP, OS, or AV encounter within the past 1 year	322,039	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 encounter and DIAGNOSIS and VITAL records within the past 5 years	606,898	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	465,964	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	329,151	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	85%	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 measurements.

	Result	%	Source table
Height measurements			VIT_L3_HT_DIST
Records	4,278,306		
Height (inches), mean	62		
Height (inches), median	65		
Weight measurements			VIT_L3_WT_DIST
Records	7,955,979		
Weight (lbs.), mean	158		
Weight (lbs.), median	163		
Body Mass Index (BMI) measurements			VIT_L3_BMI
Records	4,067,058		
BMI <=25	1,807,556	44.4	
BMI 26-30	945,653	23.3	
BMI >=31	1,313,849	32.3	

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**Table ID. Records, Patients, Encounters, and Date Ranges by Table**

This table contains summary counts, date ranges, and distinct encounters where applicable for each characterized table. The total number of records in each table is also displayed. In most cases this will be identical to the number of characterized records, but may differ slightly because of the lookback date restriction.

Table	All Data	Characterized Data			Characterized Data Range			Source Tables
	Records	Records	Patients	Encounters	Field name	5th Percentile	95th Percentile	
DEMOGRAPHIC	1,088,703	1,088,703	1,088,703	---	BIRTH_DATE	1935_Sep	2014_Feb	DEM_L3_N; XTBL_L3_DATES
ENROLLMENT	1,088,692	1,040,849	1,040,849	---	ENR_START_DATE	2006_Jan	2019_Jan	ENR_L3_N; XTBL_L3_DATES
ENCOUNTER	24,295,173	24,295,173	1,088,703	24,295,173	ADMIT_DATE	2010_Aug	2019_Aug	ENC_L3_N; XTBL_L3_DATES
DIAGNOSIS	62,993,488	62,993,488	979,332	14,783,140	ADMIT_DATE	2010_Oct	2019_Aug	DIA_L3_N; XTBL_L3_DATES
PROCEDURES	102,996,504	102,996,504	929,289	11,686,508	ADMIT_DATE	2010_Aug	2019_Jul	PRO_L3_N; XTBL_L3_DATES
DEATH	71,227	71,227	54,002	---	DEATH_DATE	2010_Jun	2019_Apr	DEATH_L3_N; XTBL_L3_DATES
VITAL	187,206,763	187,206,763	877,906	8,738,412	MEASURE_DATE	2010_Sep	2019_Aug	VIT_L3_N; XTBL_L3_DATES
LAB_RESULT_CM	123,925,479	123,925,479	566,025	3,434,958	RESULT_DATE	2010_Aug	2019_Jul	LAB_L3_N; XTBL_L3_DATES
PRESCRIBING	11,150,931	11,150,931	634,685	5,804,896	RX_ORDER_DATE	2010_Sep	2019_Aug	PRES_L3_N; XTBL_L3_DATES
DISPENSING	2,231,916	2,231,916	168,849	---	DISPENSE_DATE	2015_Oct	2019_Oct	DISP_L3_N; XTBL_L3_DATES
CONDITION	11,303,709	11,303,391	731,462	0	REPORT_DATE	2009_Jun	2019_Aug	COND_L3_N; XTBL_L3_DATES
PROVIDER	219,571	219,571	---	---	---	---	---	PROV_L3_N
MED_ADMIN	71,913,720	71,913,720	576,010	2,368,813	MEDADMIN_START_DATE	2010_Aug	2019_Feb	MEDADM_L3_N; XTBL_L3_DATES
PCORNET_TRIAL	605	605	605	---	---	---	---	TRIAL_L3_N
LDS_ADDRESS_HISTORY	2,979,401	2,979,401	1,058,765	---	---	---	---	LDSADRS_L3_N
IMMUNIZATION	1,010,350	1,010,350	242,462	0	VX_RECORD_DATE	2015_Dec	2019_Oct	IMMUNE_L3_N; XTBL_L3_DATES

The source for the total number of records is the DATAMART\_ALL table.

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

Records are the sum of ALL\_N and NULL\_N for the field which is the primary key for the table. Patients are the sum of DISTINCT\_N and NULL\_N for the PATID field. Encounters are the sum of DISTINCT\_N and NULL\_N for the ENCOUNTERID field.

**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)	14,009,426	57.7	49,983,309	79.3	51,784,676	50.3
ED (Emergency Dept)	447,149	1.8	2,337,103	3.7	5,497,760	5.3
EI (ED to IP Stay)	142,454	0.6	3,247,835	5.2	20,232,524	19.6
IC (Institutional Professional Consult)	0		0		0	
IP (Inpatient Hospital Stay)	227,501	0.9	3,347,680	5.3	24,741,259	24.0
IS (Non-acute Institutional Stay)	0		0		0	
OA (Other Ambulatory Visit)	7,216,196	29.7	2,321,249	3.7	0	
OS (Observation Stay)	36,647	0.2	195,384	0.3	429,277	0.4
Missing, NI, UN or OT	2,215,800	9.1	1,560,928	2.5	311,008	0.3
Total	24,295,173		62,993,488		102,996,504	
Source table	ENC_L3_ENCTYPE		DIA_L3_ENCTYPE		PRO_L3_ENCTTPE	

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

**Table IG. Lab Results For Selected Lab Tests**

This table illustrates the number of records and number of unique patients for 30 high volume data curation lab groups, 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. Version 3.2 of the data curation lab groups includes 490 concepts of interest to the Collaborative Research Groups (CRGs). Groups were constructed based on the LOINC attributes of COMPONENT, SYSTEM, and, if necessary, TIME, METHOD and CLASS. More information about the data curation lab groups is available on the Data Curation home page (<https://pcornet.imeetcentral.com/p/aQAAAAACjjsH>).

DC_LAB_GROUP	Records	Percentage of records in the LAB_RESULT_CM table with a LAB_LOINC code	Patients	Percentage of patients in the ENCOUNTER table	Source tables
ALBUMIN B/S/P	1,097,797	0.9	227,297	20.9	LAB_L3_DCGROUP;ENC_L3_N
ALP TOTAL	1,043,049	0.8	221,646	20.4	LAB_L3_DCGROUP;ENC_L3_N
ALT	1,219,047	1.0	250,800	23.0	LAB_L3_DCGROUP;ENC_L3_N
AST	1,178,711	1.0	244,864	22.5	LAB_L3_DCGROUP;ENC_L3_N
BASOPHILS ABSOLUTE	1,499,340	1.2	280,602	25.8	LAB_L3_DCGROUP;ENC_L3_N
BILIRUBIN TOTAL B/S/P	1,116,235	0.9	224,005	20.6	LAB_L3_DCGROUP;ENC_L3_N
BUN	2,631,872	2.1	332,526	30.5	LAB_L3_DCGROUP;ENC_L3_N
CALCIUM B/S/P	2,045,546	1.7	290,508	26.7	LAB_L3_DCGROUP;ENC_L3_N
CHLORIDE B/S/P	2,774,581	2.2	327,793	30.1	LAB_L3_DCGROUP;ENC_L3_N
CHOLESTEROL-LDL ABSOLUTE	325,147	0.3	135,628	12.5	LAB_L3_DCGROUP;ENC_L3_N
CREATININE B/S/P	2,898,059	2.3	352,297	32.4	LAB_L3_DCGROUP;ENC_L3_N
EGFR	2,206,744	1.8	273,660	25.1	LAB_L3_DCGROUP;ENC_L3_N
GLUCOSE B/S/P	5,756,935	4.6	348,659	32.0	LAB_L3_DCGROUP;ENC_L3_N
HEMATOCRIT	3,214,794	2.6	383,269	35.2	LAB_L3_DCGROUP;ENC_L3_N
HEMOGLOBIN A1C	338,065	0.3	121,328	11.1	LAB_L3_DCGROUP;ENC_L3_N
HEMOGLOBIN B/S/P	3,308,687	2.7	386,594	35.5	LAB_L3_DCGROUP;ENC_L3_N
INR	737,820	0.6	162,389	14.9	LAB_L3_DCGROUP;ENC_L3_N
LYMPHOCYTES ABSOLUTE	1,659,858	1.3	292,093	26.8	LAB_L3_DCGROUP;ENC_L3_N
MCH	2,711,632	2.2	372,594	34.2	LAB_L3_DCGROUP;ENC_L3_N
MCHC	2,711,621	2.2	372,593	34.2	LAB_L3_DCGROUP;ENC_L3_N
MCV	2,711,868	2.2	372,595	34.2	LAB_L3_DCGROUP;ENC_L3_N
MONOCYTES ABSOLUTE	1,646,842	1.3	291,541	26.8	LAB_L3_DCGROUP;ENC_L3_N
NEUTROPHILS ABSOLUTE	1,436,471	1.2	276,387	25.4	LAB_L3_DCGROUP;ENC_L3_N

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

Number of LAB\_RESULT\_CM records with a LAB\_LOINC can be found in Table IVI.

Number of patients in the ENCOUNTER table is the DISTINCT\_N for the PATID field in the ENC\_L3\_N query.

**Table IG. Lab Results For Selected Lab Tests (continued)**

This table illustrates the number of records and number of unique patients for 30 high volume data curation lab groups, 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. Version 3.2 of the data curation lab groups includes 490 concepts of interest to the Collaborative Research Groups (CRGs). Groups were constructed based on the LOINC attributes of COMPONENT, SYSTEM, and, if necessary, TIME, METHOD and CLASS. More information about the data curation lab groups is available on the Data Curation home page (<https://pcorner.imeetcentral.com/p/aQAAAAACjjsH>).

DC_LAB_GROUP	Records	Percentage of records in the LAB_RESULT_CM table with a LAB_LOINC code	Patients	Percentage of patients in the ENCOUNTER table	Source tables
PLATELETS	2,791,941	2.3	372,131	34.2	LAB_L3_DCGROUP;ENC_L3_N
POTASSIUM B/S/P	3,159,580	2.5	333,644	30.6	LAB_L3_DCGROUP;ENC_L3_N
RBC B/S/P	2,753,543	2.2	372,632	34.2	LAB_L3_DCGROUP;ENC_L3_N
RDW	5,317,016	4.3	367,827	33.8	LAB_L3_DCGROUP;ENC_L3_N
SODIUM B/S/P	3,044,493	2.5	335,099	30.8	LAB_L3_DCGROUP;ENC_L3_N
TOTAL CO2	3,287,157	2.7	338,290	31.1	LAB_L3_DCGROUP;ENC_L3_N
WBC B/S/P	2,711,840	2.2	371,331	34.1	LAB_L3_DCGROUP;ENC_L3_N

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Number of LAB\_RESULT\_CM records with a LAB\_LOINC can be found in Table IVI.

Number of patients in the ENCOUNTER table is the DISTINCT\_N for the PATID field in the ENC\_L3\_N query.



**Table IIID. Encounters Per Visit and Per Patient**

This table shows the number of encounters, patients, encounters per patient, visits (unique encounters per patient, provider, encounter type, and day), and encounters per visit by encounter type. These data support Data Check 2.04 (the average number of encounters per visit is > 2.0 for inpatient (IP), emergency department (ED), or ED to inpatient (EI) encounters). A high number of encounters per visit may signal potential redundancy or duplication. Data check exceptions are highlighted in blue and should be investigated and explained in the ETL ADD.

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)	14,009,426	939,552	14.9	7,976,007	7,878,791	1.01	ENC_L3_ENCTYPE
ED (Emergency Dept)	447,149	198,612	2.3	136,135	136,104	1.00	ENC_L3_ENCTYPE
EI (ED to IP Stay)	142,454	92,741	1.5	55,750	55,749	1.00	ENC_L3_ENCTYPE
IC (Institutional Professional Consult)	0	0		0	0		ENC_L3_ENCTYPE
IP (Inpatient Hospital Stay)	227,501	144,051	1.6	82,442	82,337	1.00	ENC_L3_ENCTYPE
IS (Non-acute Institutional Stay)	0	0		0	0		ENC_L3_ENCTYPE
OA (Other Ambulatory Visit)	7,216,196	646,066	11.2	0	0		ENC_L3_ENCTYPE
OS (Observation Stay)	36,647	21,737	1.7	9,040	9,033	1.00	ENC_L3_ENCTYPE
Missing, NI, UN or OT	2,215,800	556,243	4.0	4,488	4,488	1.00	ENC_L3_ENCTYPE

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