

**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	1,256,882		DEM_L3_N
Age			DEM_L3_AGEYRSDIST1
Mean	40		
Median	39		
Age group			DEM_L3_AGEYRSDIST2
0-4	36,668	2.9	
5-14	143,319	11.4	
15-21	112,871	8.9	
22-64	755,527	60.1	
65+	208,497	16.6	
Missing	0	0.0	
Hispanic			DEM_L3_HISPDIST
N (No)	664,573	52.9	
Y (Yes)	531,586	42.3	
Missing or Refused	60,723	4.8	
Sex			DEM_L3_SEXDIST
F (Female)	668,706	53.2	
M (Male)	587,219	46.7	
Missing or Ambiguous	957	0.1	
Race			DEM_L3_RACEDIST
White	962,440	76.6	
Non-White	121,740	9.7	
Missing or Refused	172,702	13.8	

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	762,559	80.3	
Non-White	90,696	9.6	
Missing or Refused	96,265	10.1	
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	1,256,882	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	1,256,882	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	672,775	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	237,801	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	614,840	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	485,920	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	350,786	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	84%	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	17,526,341		
Height (inches), mean	63		
Height (inches), median	64		
Weight measurements			VIT_L3_WT_DIST
Records	29,269,556		
Weight (lbs.), mean	169		
Weight (lbs.), median	168		
Body Mass Index (BMI) measurements			VIT_L3_BMI
Records	2,241,394		
BMI <=25	696,646	31.1	
BMI 26-30	659,117	29.4	
BMI >=31	885,631	39.5	

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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	1,256,882	1,256,882	1,256,882	---	BIRTH_DATE	1940_May	2012_Oct	DEM_L3_N; XTBL_L3_DATES
ENROLLMENT	792,668	792,668	792,668	---	ENR_START_DATE	2005_May	2018_Aug	ENR_L3_N; XTBL_L3_DATES
ENCOUNTER	25,094,221	25,094,221	1,256,882	25,094,221	ADMIT_DATE	2007_Sep	2019_Jun	ENC_L3_N; XTBL_L3_DATES
DIAGNOSIS	33,691,924	33,691,924	1,042,536	12,949,997	ADMIT_DATE	2009_Jul	2019_Jan	DIA_L3_N; XTBL_L3_DATES
PROCEDURES	36,875,826	36,875,826	1,059,440	11,293,373	ADMIT_DATE	2007_Nov	2019_Feb	PRO_L3_N; XTBL_L3_DATES
DEATH	41,228	41,228	41,228	---	DEATH_DATE	2006_Aug	2018_Dec	DEATH_L3_N; XTBL_L3_DATES
VITAL	50,144,113	50,144,111	1,141,494	20,253,024	MEASURE_DATE	2007_Nov	2019_Apr	VIT_L3_N; XTBL_L3_DATES
LAB_RESULT_CM	175,127,575	175,127,571	753,672	4,979,135	RESULT_DATE	2006_Jan	2019_Feb	LAB_L3_N; XTBL_L3_DATES
PRESCRIBING	14,364,584	14,364,584	787,196	6,255,129	RX_ORDER_DATE	2007_Nov	2019_Apr	PRES_L3_N; XTBL_L3_DATES
DISPENSING	17,639,660	17,639,660	265,411	---	DISPENSE_DATE	2012_Apr	2019_Jul	DISP_L3_N; XTBL_L3_DATES
CONDITION	26,072,154	26,071,725	733,541	6,225,507	REPORT_DATE	2014_Apr	2019_Apr	COND_L3_N; XTBL_L3_DATES
PROVIDER	18,573	18,573	---	---	---	---	---	PROV_L3_N
MED_ADMIN	25,563,728	25,563,719	234,635	501,146	MEDADMIN_START_DATE	2011_Sep	2019_Mar	MEDADM_L3_N; XTBL_L3_DATES
LDS_ADDRESS_HISTORY	23,269,244	23,269,244	1,248,336	---	---	---	---	LDSADRS_L3_N
IMMUNIZATION	1,237,841	1,237,841	234,538	486,512	VX_RECORD_DATE	2005_Dec	2016_Apr	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)	13,589,669	54.2	27,211,998	80.8	17,313,548	47.0
ED (Emergency Dept)	716,073	2.9	1,528,055	4.5	2,659,468	7.2
EI (ED to IP Stay)	0		0		0	
IC (Institutional Professional Consult)	0		0		0	
IP (Inpatient Hospital Stay)	392,038	1.6	1,053,843	3.1	12,740,464	34.5
IS (Non-acute Institutional Stay)	0		0		0	
OA (Other Ambulatory Visit)	1,944,400	7.7	411,911	1.2	305,377	0.8
OS (Observation Stay)	88,720	0.4	215,865	0.6	952,551	2.6
Missing, NI, UN or OT	8,363,321	33.3	3,270,252	9.7	2,904,418	7.9
Total	25,094,221		33,691,924		36,875,826	
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	2,678,074	1.5	500,414	39.8	LAB_L3_DCGROUP;ENC_L3_N
ALP TOTAL	2,629,882	1.5	528,728	42.1	LAB_L3_DCGROUP;ENC_L3_N
ALT	2,678,846	1.5	534,423	42.5	LAB_L3_DCGROUP;ENC_L3_N
AST	2,666,423	1.5	533,659	42.5	LAB_L3_DCGROUP;ENC_L3_N
BASOPHILS ABSOLUTE	1,411,082	0.8	362,924	28.9	LAB_L3_DCGROUP;ENC_L3_N
BILIRUBIN TOTAL B/S/P	2,829,690	1.6	562,624	44.8	LAB_L3_DCGROUP;ENC_L3_N
BUN	4,679,557	2.7	598,861	47.6	LAB_L3_DCGROUP;ENC_L3_N
CALCIUM B/S/P	4,687,638	2.7	600,465	47.8	LAB_L3_DCGROUP;ENC_L3_N
CHLORIDE B/S/P	4,670,387	2.7	600,338	47.8	LAB_L3_DCGROUP;ENC_L3_N
CHOLESTEROL-LDL ABSOLUTE	894,870	0.5	250,403	19.9	LAB_L3_DCGROUP;ENC_L3_N
CREATININE B/S/P	4,779,838	2.8	603,962	48.1	LAB_L3_DCGROUP;ENC_L3_N
EGFR	779,568	0.4	198,791	15.8	LAB_L3_DCGROUP;ENC_L3_N
GLUCOSE B/S/P	9,908,684	5.7	624,383	49.7	LAB_L3_DCGROUP;ENC_L3_N
HEMATOCRIT	4,856,676	2.8	650,734	51.8	LAB_L3_DCGROUP;ENC_L3_N
HEMOGLOBIN A1C	779,977	0.5	198,125	15.8	LAB_L3_DCGROUP;ENC_L3_N
HEMOGLOBIN B/S/P	4,756,455	2.7	625,607	49.8	LAB_L3_DCGROUP;ENC_L3_N
INR	224,982	0.1	78,738	6.3	LAB_L3_DCGROUP;ENC_L3_N
LYMPHOCYTES ABSOLUTE	1,416,264	0.8	363,248	28.9	LAB_L3_DCGROUP;ENC_L3_N
MCH	4,210,006	2.4	620,189	49.3	LAB_L3_DCGROUP;ENC_L3_N
MCHC	4,210,407	2.4	620,188	49.3	LAB_L3_DCGROUP;ENC_L3_N
MCV	4,210,482	2.4	620,226	49.3	LAB_L3_DCGROUP;ENC_L3_N
MONOCYTES ABSOLUTE	1,414,742	0.8	363,206	28.9	LAB_L3_DCGROUP;ENC_L3_N
NEUTROPHILS ABSOLUTE	1,792,171	1.0	357,927	28.5	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://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
PLATELETS	4,421,476	2.6	618,988	49.2	LAB_L3_DCGROUP;ENC_L3_N
POTASSIUM B/S/P	5,081,381	2.9	599,865	47.7	LAB_L3_DCGROUP;ENC_L3_N
RBC B/S/P	4,204,061	2.4	620,053	49.3	LAB_L3_DCGROUP;ENC_L3_N
RDW	4,208,064	2.4	620,128	49.3	LAB_L3_DCGROUP;ENC_L3_N
SODIUM B/S/P	5,071,153	2.9	600,918	47.8	LAB_L3_DCGROUP;ENC_L3_N
TOTAL CO2	5,274,324	3.0	605,207	48.2	LAB_L3_DCGROUP;ENC_L3_N
WBC B/S/P	4,205,237	2.4	620,053	49.3	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)	13,589,669	959,155	14.2	13,589,669	13,392,685	1.01	ENC_L3_ENCTYPE
ED (Emergency Dept)	716,073	376,182	1.9	716,073	715,698	1.00	ENC_L3_ENCTYPE
EI (ED to IP Stay)	0	0		0	0		ENC_L3_ENCTYPE
IC (Institutional Professional Consult)	0	0		0	0		ENC_L3_ENCTYPE
IP (Inpatient Hospital Stay)	392,038	241,348	1.6	392,038	391,735	1.00	ENC_L3_ENCTYPE
IS (Non-acute Institutional Stay)	0	0		0	0		ENC_L3_ENCTYPE
OA (Other Ambulatory Visit)	1,944,400	243,485	8.0	1,944,400	1,805,113	1.08	ENC_L3_ENCTYPE
OS (Observation Stay)	88,720	73,402	1.2	88,720	88,705	1.00	ENC_L3_ENCTYPE
Missing, NI, UN or OT	8,363,321	739,250	11.3	8,363,321	8,014,224	1.04	ENC_L3_ENCTYPE

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