

**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	1,309,127		DEM_L3_N
Age			DEM_L3_AGEYRSDIST1
Mean	46		
Median	47		
Age group			DEM_L3_AGEYRSDIST2
0-4	28,131	2.2	
5-14	74,055	5.7	
15-21	67,964	5.2	
22-64	798,960	61.0	
65+	287,229	21.9	
Missing	52,788	4.0	
Hispanic			DEM_L3_HISPDIST
N (No)	1,128,160	86.2	
Y (Yes)	60,154	4.6	
Missing or Refused	120,813	9.3	
Sex			DEM_L3_SEXDIST
F (Female)	700,021	53.5	
M (Male)	608,368	46.5	
Missing or Ambiguous	738	0.0	
Race			DEM_L3_RACEDIST
White	898,651	68.6	
Non-White	229,765	17.6	
Missing or Refused	180,711	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	730,202	70.9	
Non-White	184,371	17.9	
Missing or Refused	114,936	11.1	
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	1,309,127	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	1,309,127	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	744,184	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	381,141	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	765,278	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	699,014	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	445,592	XTBL_L3_DASH3
Patients with diagnosis data	Percentage of patients with encounters who have at least 1 diagnosis	93%	ENC_L3_N; DIA_L3_N
Patients with procedure data	Percentage of patients with encounters who have at least 1 procedure	91%	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	5,931,458		
Height (inches), mean	65		
Height (inches), median	66		
Weight measurements			VIT_L3_WT_DIST
Records	10,817,042		
Weight (lbs.), mean	176		
Weight (lbs.), median	175		
Body Mass Index (BMI) measurements			VIT_L3_BMI
Records	9,205,352		
BMI <=25	3,050,249	33.1	
BMI 26-30	2,632,449	28.6	
BMI >=31	3,522,654	38.3	

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

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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	1,309,127	1,309,127	1,309,127	---	BIRTH_DATE	1938_Feb	2009_Nov	DEM_L3_N; XTBL_L3_DATES
ENROLLMENT	1,309,127	1,309,127	1,309,127	---	ENR_START_DATE	2004_Mar	2019_Mar	ENR_L3_N; XTBL_L3_DATES
ENCOUNTER	88,139,460	88,139,460	1,309,127	88,139,460	ADMIT_DATE	2006_Jul	2019_Jun	ENC_L3_N; XTBL_L3_DATES
DIAGNOSIS	185,082,010	185,082,010	1,212,849	47,678,947	ADMIT_DATE	2007_Jun	2019_Aug	DIA_L3_N; XTBL_L3_DATES
PROCEDURES	180,105,989	180,105,989	1,194,814	42,764,142	ADMIT_DATE	2007_Jan	2019_Jul	PRO_L3_N; XTBL_L3_DATES
DEATH	94,130	94,130	94,130	---	DEATH_DATE	2005_Jun	2019_Feb	DEATH_L3_N; XTBL_L3_DATES
VITAL	49,346,169	49,346,169	1,045,098	24,513,055	MEASURE_DATE	2008_Jul	2019_Aug	VIT_L3_N; XTBL_L3_DATES
LAB_RESULT_CM	155,685,568	155,685,450	643,626	6,376,732	RESULT_DATE	2006_Dec	2019_Aug	LAB_L3_N; XTBL_L3_DATES
PRESCRIBING	44,249,303	44,249,303	778,111	12,615,661	RX_ORDER_DATE	2009_Nov	2019_Aug	PRES_L3_N; XTBL_L3_DATES
DISPENSING	168,584,143	168,584,143	661,275	---	DISPENSE_DATE	2012_Dec	2019_Aug	DISP_L3_N; XTBL_L3_DATES
CONDITION	7,876,365	7,876,365	585,065	2,039,025	REPORT_DATE	2009_Jul	2019_Aug	COND_L3_N; XTBL_L3_DATES
PROVIDER	45,271	45,271	---	---	---	---	---	PROV_L3_N
MED_ADMIN	47,466,540	47,466,540	490,767	2,409,747	MEDADMIN_START_DATE	2013_Jan	2019_Aug	MEDADM_L3_N; XTBL_L3_DATES
OBS_CLIN	5,405,298	5,405,291	227,675	592,817	OBSCLIN_DATE	2013_Apr	2019_Aug	OBSCLIN_L3_N; XTBL_L3_DATES
PCORNET_TRIAL	523	523	523	---	---	---	---	TRIAL_L3_N
LDS_ADDRESS_HISTORY	1,285,166	1,285,166	1,285,166	---	---	---	---	LDSADRS_L3_N
IMMUNIZATION	4,397,945	4,397,945	469,644	1,075,878	VX_RECORD_DATE	2009_Mar	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)	20,342,153	23.1	96,315,604	52.0	53,631,957	29.8
ED (Emergency Dept)	865,929	1.0	4,922,645	2.7	7,220,793	4.0
EI (ED to IP Stay)	0		0		0	
IC (Institutional Professional Consult)	0		0		0	
IP (Inpatient Hospital Stay)	374,485	0.4	11,335,844	6.1	48,739,128	27.1
IS (Non-acute Institutional Stay)	761	0.0	1,185	0.0	53	0.0
OA (Other Ambulatory Visit)	24,329,122	27.6	18,459,252	10.0	14,338,459	8.0
OS (Observation Stay)	79,487	0.1	1,130,743	0.6	3,280,117	1.8
Missing, NI, UN or OT	42,147,523	47.8	52,916,737	28.6	52,895,482	29.4
Total	88,139,460		185,082,010		180,105,989	
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	2,397,387	1.5	376,685	28.8	LAB_L3_DCGROUP;ENC_L3_N
ALP TOTAL	2,345,415	1.5	372,924	28.5	LAB_L3_DCGROUP;ENC_L3_N
ALT	2,454,652	1.6	381,328	29.1	LAB_L3_DCGROUP;ENC_L3_N
AST	2,430,736	1.6	379,276	29.0	LAB_L3_DCGROUP;ENC_L3_N
BASOPHILS ABSOLUTE	2,327,497	1.5	394,552	30.1	LAB_L3_DCGROUP;ENC_L3_N
BILIRUBIN TOTAL B/S/P	2,378,979	1.5	388,296	29.7	LAB_L3_DCGROUP;ENC_L3_N
BUN	4,190,904	2.7	465,087	35.5	LAB_L3_DCGROUP;ENC_L3_N
CALCIUM B/S/P	4,812,997	3.1	498,250	38.1	LAB_L3_DCGROUP;ENC_L3_N
CHLORIDE B/S/P	4,861,942	3.1	498,190	38.1	LAB_L3_DCGROUP;ENC_L3_N
CHOLESTEROL-LDL ABSOLUTE	932,116	0.6	245,703	18.8	LAB_L3_DCGROUP;ENC_L3_N
CREATININE B/S/P	4,936,442	3.2	507,429	38.8	LAB_L3_DCGROUP;ENC_L3_N
EGFR	8,902,157	5.7	465,257	35.5	LAB_L3_DCGROUP;ENC_L3_N
GLUCOSE B/S/P	7,624,539	4.9	523,925	40.0	LAB_L3_DCGROUP;ENC_L3_N
HEMATOCRIT	4,593,247	3.0	516,573	39.5	LAB_L3_DCGROUP;ENC_L3_N
HEMOGLOBIN A1C	716,184	0.5	163,221	12.5	LAB_L3_DCGROUP;ENC_L3_N
HEMOGLOBIN B/S/P	4,602,962	3.0	515,204	39.4	LAB_L3_DCGROUP;ENC_L3_N
INR	1,551,749	1.0	174,721	13.3	LAB_L3_DCGROUP;ENC_L3_N
LYMPHOCYTES ABSOLUTE	2,607,837	1.7	405,170	30.9	LAB_L3_DCGROUP;ENC_L3_N
MCH	4,322,787	2.8	507,148	38.7	LAB_L3_DCGROUP;ENC_L3_N
MCHC	4,256,108	2.7	500,007	38.2	LAB_L3_DCGROUP;ENC_L3_N
MCV	4,324,149	2.8	507,193	38.7	LAB_L3_DCGROUP;ENC_L3_N
MONOCYTES ABSOLUTE	2,568,091	1.6	404,870	30.9	LAB_L3_DCGROUP;ENC_L3_N
NEUTROPHILS ABSOLUTE	2,647,479	1.7	410,960	31.4	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	4,130,274	2.7	480,080	36.7	LAB_L3_DCGROUP;ENC_L3_N
POTASSIUM B/S/P	4,974,426	3.2	499,025	38.1	LAB_L3_DCGROUP;ENC_L3_N
RBC B/S/P	4,061,733	2.6	479,411	36.6	LAB_L3_DCGROUP;ENC_L3_N
RDW	4,315,488	2.8	506,910	38.7	LAB_L3_DCGROUP;ENC_L3_N
SODIUM B/S/P	4,900,061	3.1	498,315	38.1	LAB_L3_DCGROUP;ENC_L3_N
TOTAL CO2	544,246	0.3	110,909	8.5	LAB_L3_DCGROUP;ENC_L3_N
WBC B/S/P	4,098,646	2.6	479,678	36.6	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 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)	20,342,153	871,846	23.3	15,637,725	15,544,656	1.01	ENC_L3_ENCTYPE
ED (Emergency Dept)	865,929	364,911	2.4	1,654	1,648	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)	374,485	203,360	1.8	374,247	374,197	1.00	ENC_L3_ENCTYPE
IS (Non-acute Institutional Stay)	761	573	1.3	761	745	1.02	ENC_L3_ENCTYPE
OA (Other Ambulatory Visit)	24,329,122	805,046	30.2	24,221,399	23,186,192	1.04	ENC_L3_ENCTYPE
OS (Observation Stay)	79,487	54,316	1.5	79,103	79,050	1.00	ENC_L3_ENCTYPE
Missing, NI, UN or OT	42,147,523	2,076,278	20.3	40,594,772	39,590,611	1.03	ENC_L3_ENCTYPE

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