

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	1,766,303		DEM_L3_N
Age			DEM_L3_AGEYRSDIST1
Mean	44		
Median	44		
Age group			DEM_L3_AGEYRSDIST2
0-4	57,550	3.2	
5-14	146,554	8.3	
15-21	118,252	6.7	
22-64	1,065,471	60.4	
65+	378,475	21.5	
Missing	1	0.0	
Hispanic			DEM_L3_HISPDIST
N (No)	1,628,660	92.2	
Y (Yes)	69,597	3.9	
Missing or Refused	68,046	3.9	
Sex			DEM_L3_SEXDIST
F (Female)	948,606	53.7	
M (Male)	817,637	46.3	
Missing or Ambiguous	60	0.0	
Race			DEM_L3_RACEDIST
White	1,476,669	83.6	
Non-White	206,590	11.8	
Missing or Refused	83,044	4.7	

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	1,475,628	83.6	
Non-White	206,336	11.7	
Missing or Refused	82,934	4.7	
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	1,766,303	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	1,766,303	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	1,544,133	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	868,469	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	1,528,143	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	1,400,703	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	1,139,982	XTBL_L3_DASH3
Patients with diagnosis data	Percentage of patients with encounters who have at least 1 diagnosis	99%	ENC_L3_N; DIA_L3_N
Patients with procedure data	Percentage of patients with encounters who have at least 1 procedure	98%	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	11,848,489		
Height (inches), mean	64		
Height (inches), median	66		
Weight measurements			VIT_L3_WT_DIST
Records	21,730,162		
Weight (lbs.), mean	173		
Weight (lbs.), median	174		
Body Mass Index (BMI) measurements			VIT_L3_BMI
Records	11,627,345		
BMI <=25	4,114,487	35.4	
BMI 26-30	3,215,386	27.7	
BMI >=31	4,297,472	37.0	

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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	1,766,303	1,766,303	1,766,303	---	BIRTH_DATE	1936_Dec	2013_Jan	DEM_L3_N; XTBL_L3_DATES
ENROLLMENT	1,764,898	1,764,896	1,764,896	---	ENR_START_DATE	2013_Jan	2019_Jan	ENR_L3_N; XTBL_L3_DATES
ENCOUNTER	75,625,115	75,625,113	1,764,898	75,625,113	ADMIT_DATE	2013_May	2019_Aug	ENC_L3_N; XTBL_L3_DATES
DIAGNOSIS	168,808,042	168,808,042	1,750,357	34,436,776	ADMIT_DATE	2013_Jun	2019_Sep	DIA_L3_N; XTBL_L3_DATES
PROCEDURES	132,521,271	132,521,271	1,727,010	32,755,526	ADMIT_DATE	2013_Sep	2019_Sep	PRO_L3_N; XTBL_L3_DATES
DEATH	76,770	76,770	76,770	---	DEATH_DATE	2013_Sep	2019_Sep	DEATH_L3_N; XTBL_L3_DATES
VITAL	96,576,584	96,576,584	1,611,250	20,221,722	MEASURE_DATE	2013_Jun	2019_Aug	VIT_L3_N; XTBL_L3_DATES
LAB_RESULT_CM	199,355,177	199,355,177	1,323,159	10,458,775	RESULT_DATE	2013_Jun	2019_Aug	LAB_L3_N; XTBL_L3_DATES
PRESCRIBING	98,977,025	98,977,025	1,521,718	26,150,002	RX_ORDER_DATE	2013_May	2019_Sep	PRES_L3_N; XTBL_L3_DATES
CONDITION	9,435,594	9,435,594	1,223,029	0	REPORT_DATE	2013_Jul	2019_Aug	COND_L3_N; XTBL_L3_DATES
DEATH_CAUSE	54,987	54,987	54,987	---	---	---	---	DEATHC_L3_N
PRO_CM	1,469,469	1,469,469	170,134	367,176	PRO_DATE	2015_May	2019_Oct	PROCM_L3_N; XTBL_L3_DATES
PROVIDER	47,683	47,683	---	---	---	---	---	PROV_L3_N
MED_ADMIN	71,665,039	71,665,039	821,306	3,115,566	MEDADMIN_START_DATE	2013_Jun	2019_Sep	MEDADM_L3_N; XTBL_L3_DATES
PCORNET_TRIAL	953	953	952	---	---	---	---	TRIAL_L3_N
LDS_ADDRESS_HISTORY	15,976,704	15,976,704	1,766,043	---	---	---	---	LDSADRS_L3_N
IMMUNIZATION	6,599,777	6,599,777	945,066	3,005,100	VX_RECORD_DATE	2013_Oct	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)	26,419,261	34.9	126,588,657	75.0	94,672,517	71.4
ED (Emergency Dept)	1,302,414	1.7	5,982,461	3.5	5,689,439	4.3
EI (ED to IP Stay)	338,634	0.4	3,785,912	2.2	3,093,015	2.3
IC (Institutional Professional Consult)	0		0		0	
IP (Inpatient Hospital Stay)	494,493	0.7	3,580,834	2.1	3,255,989	2.5
IS (Non-acute Institutional Stay)	312,026	0.4	2,324,953	1.4	333,486	0.3
OA (Other Ambulatory Visit)	38,660,247	51.1	13,134,943	7.8	10,866,140	8.2
OS (Observation Stay)	107,267	0.1	894,082	0.5	2,275,725	1.7
Missing, NI, UN or OT	7,990,771	10.6	12,516,200	7.4	12,334,960	9.3
Total	75,625,113		168,808,042		132,521,271	
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	1,783,935	0.9	548,467	31.1	LAB_L3_DCGROUP;ENC_L3_N
ALP TOTAL	1,687,408	0.8	542,909	30.8	LAB_L3_DCGROUP;ENC_L3_N
ALT	2,087,274	1.0	602,023	34.1	LAB_L3_DCGROUP;ENC_L3_N
AST	1,921,417	1.0	577,698	32.7	LAB_L3_DCGROUP;ENC_L3_N
BASOPHILS ABSOLUTE	2,417,336	1.2	684,729	38.8	LAB_L3_DCGROUP;ENC_L3_N
BILIRUBIN TOTAL B/S/P	1,719,322	0.9	557,261	31.6	LAB_L3_DCGROUP;ENC_L3_N
BUN	4,430,278	2.2	798,395	45.2	LAB_L3_DCGROUP;ENC_L3_N
CALCIUM B/S/P	4,388,964	2.2	785,426	44.5	LAB_L3_DCGROUP;ENC_L3_N
CHLORIDE B/S/P	4,445,506	2.2	795,871	45.1	LAB_L3_DCGROUP;ENC_L3_N
CHOLESTEROL-LDL ABSOLUTE	1,542,242	0.8	561,135	31.8	LAB_L3_DCGROUP;ENC_L3_N
CREATININE B/S/P	5,100,347	2.6	839,499	47.6	LAB_L3_DCGROUP;ENC_L3_N
EGFR	9,080,208	4.6	767,595	43.5	LAB_L3_DCGROUP;ENC_L3_N
GLUCOSE B/S/P	9,432,584	4.7	907,592	51.4	LAB_L3_DCGROUP;ENC_L3_N
HEMATOCRIT	3,889,513	2.0	847,281	48.0	LAB_L3_DCGROUP;ENC_L3_N
HEMOGLOBIN A1C	1,111,054	0.6	307,529	17.4	LAB_L3_DCGROUP;ENC_L3_N
HEMOGLOBIN B/S/P	5,101,062	2.6	952,340	54.0	LAB_L3_DCGROUP;ENC_L3_N
INR	1,864,184	0.9	191,810	10.9	LAB_L3_DCGROUP;ENC_L3_N
LYMPHOCYTES ABSOLUTE	2,551,415	1.3	703,081	39.8	LAB_L3_DCGROUP;ENC_L3_N
MCH	3,789,205	1.9	844,439	47.8	LAB_L3_DCGROUP;ENC_L3_N
MCHC	3,789,195	1.9	844,435	47.8	LAB_L3_DCGROUP;ENC_L3_N
MCV	4,959,751	2.5	948,916	53.8	LAB_L3_DCGROUP;ENC_L3_N
MONOCYTES ABSOLUTE	2,418,283	1.2	684,953	38.8	LAB_L3_DCGROUP;ENC_L3_N
NEUTROPHILS ABSOLUTE	2,551,178	1.3	703,056	39.8	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 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	4,048,671	2.0	848,429	48.1	LAB_L3_DCGROUP;ENC_L3_N
POTASSIUM B/S/P	5,352,784	2.7	811,178	46.0	LAB_L3_DCGROUP;ENC_L3_N
RBC B/S/P	3,789,215	1.9	844,401	47.8	LAB_L3_DCGROUP;ENC_L3_N
RDW	3,786,459	1.9	844,378	47.8	LAB_L3_DCGROUP;ENC_L3_N
SODIUM B/S/P	4,643,691	2.3	799,866	45.3	LAB_L3_DCGROUP;ENC_L3_N
TOTAL CO2	4,442,334	2.2	795,146	45.1	LAB_L3_DCGROUP;ENC_L3_N
WBC B/S/P	3,871,801	1.9	846,679	48.0	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)	26,419,261	1,702,960	15.5	25,455,307	22,019,472	1.16	ENC_L3_ENCTYPE
ED (Emergency Dept)	1,302,414	477,471	2.7	1,345	1,338	1.01	ENC_L3_ENCTYPE
EI (ED to IP Stay)	338,634	174,441	1.9	267	267	1.00	ENC_L3_ENCTYPE
IC (Institutional Professional Consult)	0	0		0	0		ENC_L3_ENCTYPE
IP (Inpatient Hospital Stay)	494,493	310,819	1.6	81,228	80,613	1.01	ENC_L3_ENCTYPE
IS (Non-acute Institutional Stay)	312,026	44,052	7.1	300,976	300,876	1.00	ENC_L3_ENCTYPE
OA (Other Ambulatory Visit)	38,660,247	1,577,323	24.5	33,157,536	31,174,347	1.06	ENC_L3_ENCTYPE
OS (Observation Stay)	107,267	77,068	1.4	8,236	5,428	1.52	ENC_L3_ENCTYPE
Missing, NI, UN or OT	7,990,771	987,736	8.1	7,189,504	6,329,979	1.14	ENC_L3_ENCTYPE

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