

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	3,169,202		DEM_L3_N
Age			DEM_L3_AGEYRSDIST1
Mean	42		
Median	40		
Age group			DEM_L3_AGEYRSDIST2
0-4	131,095	4.1	
5-14	374,812	11.8	
15-21	261,569	8.3	
22-64	1,741,832	54.9	
65+	659,894	20.8	
Missing	0	0.0	
Hispanic			DEM_L3_HISPDIST
N (No)	0	0.0	
Y (Yes)	114,233	3.6	
Missing or Refused	3,054,969	96.4	
Sex			DEM_L3_SEXDIST
F (Female)	1,641,140	51.8	
M (Male)	1,517,321	47.9	
Missing or Ambiguous	10,741	0.3	
Race			DEM_L3_RACEDIST
White	2,095,002	66.1	
Non-White	428,919	13.6	
Missing or Refused	645,281	20.4	

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	1,555,894	64.9	
Non-White	329,344	13.8	
Missing or Refused	512,438	21.3	
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	3,169,202	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	3,169,202	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	2,007,704	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	1,073,550	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	222,166	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	129,605	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	113,680	XTBL_L3_DASH3
Patients with diagnosis data	Percentage of patients with encounters who have at least 1 diagnosis	89%	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	571,615		
Height (inches), mean	67		
Height (inches), median	66		
Weight measurements			VIT_L3_WT_DIST
Records	699,777		
Weight (lbs.), mean	191		
Weight (lbs.), median	182		
Body Mass Index (BMI) measurements			VIT_L3_BMI
Records	392,545		
BMI <=25	177,369	45.2	
BMI 26-30	73,555	18.7	
BMI >=31	141,621	36.1	

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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	3,169,202	3,169,202	3,169,202	---	BIRTH_DATE	1936_Jan	2014_Apr	DEM_L3_N; XTBL_L3_DATES
ENROLLMENT	1,157,972	1,157,972	1,157,972	---	ENR_START_DATE	2010_Jan	2018_Sep	ENR_L3_N; XTBL_L3_DATES
ENCOUNTER	51,716,350	51,716,350	2,627,738	51,716,350	ADMIT_DATE	2010_Aug	2019_May	ENC_L3_N; XTBL_L3_DATES
DIAGNOSIS	79,925,164	79,925,164	2,346,006	23,705,536	ADMIT_DATE	2010_Jul	2019_Apr	DIA_L3_N; XTBL_L3_DATES
PROCEDURES	50,359,785	50,359,785	2,401,404	45,937,467	ADMIT_DATE	2010_Jul	2019_Apr	PRO_L3_N; XTBL_L3_DATES
DEATH	74,952	74,952	74,952	---	DEATH_DATE	2010_Apr	2019_May	DEATH_L3_N; XTBL_L3_DATES
VITAL	3,146,918	3,146,918	230,434	864,967	MEASURE_DATE	2010_Apr	2014_Oct	VIT_L3_N; XTBL_L3_DATES
LAB_RESULT_CM	285,122,338	285,122,338	1,639,170	10,256,483	RESULT_DATE	2010_Aug	2019_May	LAB_L3_N; XTBL_L3_DATES
PRESCRIBING	281,663	281,663	43,139	117,914	RX_ORDER_DATE	2010_Mar	2014_Aug	PRES_L3_N; XTBL_L3_DATES
DISPENSING	126,226,647	126,226,647	1,625,693	---	DISPENSE_DATE	2010_Apr	2018_Jun	DISP_L3_N; XTBL_L3_DATES
PROVIDER	94,116	94,116	---	---	---	---	---	PROV_L3_N
PCORNET_TRIAL	156	156	156	---	---	---	---	TRIAL_L3_N

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)	44,684,701	86.4	55,534,103	69.5	45,909,149	91.2
ED (Emergency Dept)	4,460,775	8.6	9,967,330	12.5	1,747,452	3.5
EI (ED to IP Stay)	0		0		0	
IC (Institutional Professional Consult)	0		0		0	
IP (Inpatient Hospital Stay)	1,794,007	3.5	13,429,413	16.8	2,697,354	5.4
IS (Non-acute Institutional Stay)	0		0		0	
OA (Other Ambulatory Visit)	0		0		0	
OS (Observation Stay)	0		0		0	
Missing, NI, UN or OT	776,867	1.5	994,318	1.2	5,830	0.0
Total	51,716,350		79,925,164		50,359,785	
Source table	ENC_L3_ENCTYPE		DIA_L3_ENCTYPE		PRO_L3_ENCTTPE	

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	5,572,358	2.0	1,056,288	40.2	LAB_L3_DCGROUP;ENC_L3_N
ALP TOTAL	5,106,401	1.8	1,046,599	39.8	LAB_L3_DCGROUP;ENC_L3_N
ALT	5,473,438	1.9	1,077,080	41.0	LAB_L3_DCGROUP;ENC_L3_N
AST	5,310,521	1.9	1,061,713	40.4	LAB_L3_DCGROUP;ENC_L3_N
BASOPHILS ABSOLUTE	5,346,844	1.9	1,067,221	40.6	LAB_L3_DCGROUP;ENC_L3_N
BILIRUBIN TOTAL B/S/P	5,250,276	1.8	1,086,489	41.3	LAB_L3_DCGROUP;ENC_L3_N
BUN	10,811,181	3.8	1,319,752	50.2	LAB_L3_DCGROUP;ENC_L3_N
CALCIUM B/S/P	10,343,522	3.6	1,281,403	48.8	LAB_L3_DCGROUP;ENC_L3_N
CHLORIDE B/S/P	10,822,734	3.8	1,318,462	50.2	LAB_L3_DCGROUP;ENC_L3_N
CHOLESTEROL-LDL ABSOLUTE	1,799,531	0.6	639,025	24.3	LAB_L3_DCGROUP;ENC_L3_N
CREATININE B/S/P	11,145,305	3.9	1,334,996	50.8	LAB_L3_DCGROUP;ENC_L3_N
EGFR	11,083,241	3.9	1,164,850	44.3	LAB_L3_DCGROUP;ENC_L3_N
GLUCOSE B/S/P	23,130,095	8.1	1,396,623	53.1	LAB_L3_DCGROUP;ENC_L3_N
HEMATOCRIT	10,269,854	3.6	1,367,537	52.0	LAB_L3_DCGROUP;ENC_L3_N
HEMOGLOBIN A1C	1,895,662	0.7	582,239	22.2	LAB_L3_DCGROUP;ENC_L3_N
HEMOGLOBIN B/S/P	11,585,640	4.1	1,403,836	53.4	LAB_L3_DCGROUP;ENC_L3_N
INR	2,341,224	0.8	387,846	14.8	LAB_L3_DCGROUP;ENC_L3_N
LYMPHOCYTES ABSOLUTE	5,807,915	2.0	1,090,640	41.5	LAB_L3_DCGROUP;ENC_L3_N
MCH	9,994,437	3.5	1,363,302	51.9	LAB_L3_DCGROUP;ENC_L3_N
MCHC	9,995,586	3.5	1,363,340	51.9	LAB_L3_DCGROUP;ENC_L3_N
MCV	9,996,410	3.5	1,363,431	51.9	LAB_L3_DCGROUP;ENC_L3_N
MONOCYTES ABSOLUTE	5,760,640	2.0	1,089,782	41.5	LAB_L3_DCGROUP;ENC_L3_N
NEUTROPHILS ABSOLUTE	5,868,194	2.1	1,090,883	41.5	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://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	0.0	2	0.0	LAB_L3_DCGROUP;ENC_L3_N
POTASSIUM B/S/P	11,820,983	4.1	1,335,355	50.8	LAB_L3_DCGROUP;ENC_L3_N
RBC B/S/P	9,999,161	3.5	1,363,431	51.9	LAB_L3_DCGROUP;ENC_L3_N
RDW	0		0		LAB_L3_DCGROUP;ENC_L3_N
SODIUM B/S/P	11,449,887	4.0	1,321,760	50.3	LAB_L3_DCGROUP;ENC_L3_N
TOTAL CO2	10,393,385	3.6	1,280,579	48.7	LAB_L3_DCGROUP;ENC_L3_N
WBC B/S/P	0		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)	44,684,701	2,320,854	19.3	44,684,701	39,298,727	1.14	ENC_L3_ENCTYPE
ED (Emergency Dept)	4,460,775	1,172,892	3.8	4,460,775	4,018,721	1.11	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)	1,794,007	708,201	2.5	1,794,007	1,599,776	1.12	ENC_L3_ENCTYPE
IS (Non-acute Institutional Stay)	0	0		0	0		ENC_L3_ENCTYPE
OA (Other Ambulatory Visit)	0	0		0	0		ENC_L3_ENCTYPE
OS (Observation Stay)	0	0		0	0		ENC_L3_ENCTYPE
Missing, NI, UN or OT	776,867	154,270	5.0	776,867	743,263	1.05	ENC_L3_ENCTYPE

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