

**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             | 2,463,453 |      | DEM_L3_N           |
| Age                  |           |      | DEM_L3_AGEYRSDIST1 |
| Mean                 | 61        |      |                    |
| Median               | 59        |      |                    |
| Age group            |           |      | DEM_L3_AGEYRSDIST2 |
| 0-4                  | 22,435    | 0.9  |                    |
| 5-14                 | 81,297    | 3.3  |                    |
| 15-21                | 98,019    | 4.0  |                    |
| 22-64                | 1,244,430 | 50.5 |                    |
| 65+                  | 1,002,613 | 40.7 |                    |
| Missing              | 14,659    | 0.6  |                    |
| Hispanic             |           |      | DEM_L3_HISPDIST    |
| N (No)               | 858,331   | 34.8 |                    |
| Y (Yes)              | 81,766    | 3.3  |                    |
| Missing or Refused   | 1,523,356 | 61.8 |                    |
| Sex                  |           |      | DEM_L3_SEXDIST     |
| F (Female)           | 1,356,283 | 55.1 |                    |
| M (Male)             | 1,091,721 | 44.3 |                    |
| Missing or Ambiguous | 15,449    | 0.6  |                    |
| Race                 |           |      | DEM_L3_RACEDIST    |
| White                | 725,689   | 29.5 |                    |
| Non-White            | 141,070   | 5.7  |                    |
| Missing or Refused   | 1,596,694 | 64.8 |                    |

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   | 594,970   | 57.8  |                   |
| Non-White   | 116,423   | 11.2  |                   |
| Missing or Refused  | 317,991   | 30.9  |                   |
| 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),<br>TF (Transgender female/Trans woman/Male-to-female),<br>or TM (Transgender male/Trans man/Female-to-male) | 0         | 0.0   |                   |
| Missing or Refused  | 2,463,453 | 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),<br>SE (Something else), QS (Questioning)   | 0         | 0.0   |                   |
| Missing or Refused  | 2,463,453 | 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  | 598,018 | 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   | 264,305 | 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  | 621,539 | 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                | 587,749 | 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 | 383,993 | XTBL_L3_DASH3         |
| Patients with diagnosis data  | Percentage of patients with encounters who have at least 1 diagnosis   | 80%     | ENC_L3_N;<br>DIA_L3_N |
| Patients with procedure data  | Percentage of patients with encounters who have at least 1 procedure   | 75%     | ENC_L3_N;<br>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                            | 6,294,034 |      |                |
| Height (inches), mean              | 65        |      |                |
| Height (inches), median            | 66        |      |                |
| Weight measurements                |           |      | VIT_L3_WT_DIST |
| Records                            | 6,871,773 |      |                |
| Weight (lbs.), mean                | 176       |      |                |
| Weight (lbs.), median              | 175       |      |                |
| Body Mass Index (BMI) measurements |           |      | VIT_L3_BMI     |
| Records                            | 6,594,683 |      |                |
| BMI <=25                           | 2,358,877 | 35.8 |                |
| BMI 26-30                          | 1,872,874 | 28.4 |                |
| BMI >=31                           | 2,362,932 | 35.8 |                |

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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   | 2,463,453   | 2,463,453          | 2,463,453 | ---        | BIRTH_DATE               | 1900_Jan       | 2003_May        | DEM_L3_N; XTBL_L3_DATES     |
| ENROLLMENT    | 450,411     | 450,411            | 450,411   | ---        | ENR_START_DATE           | 2010_Jan       | 2019_Apr        | ENR_L3_N; XTBL_L3_DATES     |
| ENCOUNTER     | 38,308,199  | 38,308,199         | 1,098,305 | 38,308,199 | ADMIT_DATE               | 2011_Jul       | 2019_Aug        | ENC_L3_N; XTBL_L3_DATES     |
| DIAGNOSIS     | 80,279,061  | 80,279,061         | 882,750   | 14,313,654 | ADMIT_DATE               | 2011_May       | 2019_Jul        | DIA_L3_N; XTBL_L3_DATES     |
| PROCEDURES    | 51,825,706  | 51,825,706         | 819,897   | 9,607,770  | ADMIT_DATE               | 2012_Feb       | 2019_Jul        | PRO_L3_N; XTBL_L3_DATES     |
| DEATH         | 344,312     | 344,312            | 269,027   | ---        | DEATH_DATE               | 2001_Jun       | 2019_Mar        | DEATH_L3_N; XTBL_L3_DATES   |
| VITAL         | 39,582,159  | 39,582,159         | 760,716   | 9,192,045  | MEASURE_DATE             | 2010_Dec       | 2019_Jul        | VIT_L3_N; XTBL_L3_DATES     |
| LAB_RESULT_CM | 198,223,536 | 198,223,341        | 510,152   | 4,110,299  | RESULT_DATE              | 2010_Nov       | 2019_Jun        | LAB_L3_N; XTBL_L3_DATES     |
| PRESCRIBING   | 47,194,469  | 47,194,127         | 735,000   | 8,936,465  | RX_ORDER_DATE            | 2010_Dec       | 2019_Jul        | PRES_L3_N; XTBL_L3_DATES    |
| DISPENSING    | 37,245,005  | 37,245,005         | 479,985   | ---        | DISPENSE_DATE            | 2013_Sep       | 2019_Jun        | DISP_L3_N; XTBL_L3_DATES    |
| CONDITION     | 24,370,627  | 24,368,180         | 830,953   | 5,551,231  | REPORT_DATE              | 2010_Dec       | 2019_Aug        | COND_L3_N; XTBL_L3_DATES    |
| PROVIDER      | 197,023     | 197,023            | ---       | ---        | ---                      | ---            | ---             | PROV_L3_N                   |
| MED_ADMIN     | 74,118,709  | 74,118,709         | 408,944   | 2,089,595  | MEDADMIN_START_DATE      | 2010_Sep       | 2019_Jun        | MEDADM_L3_N; XTBL_L3_DATES  |
| OBS_CLIN      | 6,974,782   | 6,974,782          | 122,323   | 273,506    | OBSCLIN_DATE             | 2011_Jan       | 2019_Jul        | OBSCLIN_L3_N; XTBL_L3_DATES |
| OBS_GEN       | 22,616,170  | 14,749,138         | 63,491    | 68,042     | OBSGEN_DATE              | 2003_Feb       | 2018_Jul        | OBSGEN_L3_N; XTBL_L3_DATES  |
| PCORNET_TRIAL | 2,200       | 2,200              | 2,072     | ---        | ---                      | ---            | ---             | 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)                   | 8,681,048      | 22.7 | 48,016,680     | 59.8 | 21,368,462     | 41.2 |
| ED (Emergency Dept)                     | 393,605        | 1.0  | 3,953,138      | 4.9  | 2,611,295      | 5.0  |
| EI (ED to IP Stay)                      | 134,334        | 0.4  | 7,564,376      | 9.4  | 9,195,668      | 17.7 |
| IC (Institutional Professional Consult) | 0              |      | 0              |      | 0              |      |
| IP (Inpatient Hospital Stay)            | 226,143        | 0.6  | 8,297,025      | 10.3 | 12,268,431     | 23.7 |
| IS (Non-acute Institutional Stay)       | 0              |      | 0              |      | 0              |      |
| OA (Other Ambulatory Visit)             | 25,240,923     | 65.9 | 8,536,295      | 10.6 | 3,321,783      | 6.4  |
| OS (Observation Stay)                   | 6,846          | 0.0  | 134,368        | 0.2  | 154,979        | 0.3  |
| Missing, NI, UN or OT                   | 3,625,300      | 9.5  | 3,777,179      | 4.7  | 2,905,088      | 5.6  |
| Total                                   | 38,308,199     |      | 80,279,061     |      | 51,825,706     |      |
| 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            | 2,974,079  | 1.8  | 355,113  | 32.3  | LAB_L3_DCGROUP;ENC_L3_N |
| ALP TOTAL                | 2,972,884  | 1.8  | 354,578  | 32.3  | LAB_L3_DCGROUP;ENC_L3_N |
| ALT                      | 3,038,888  | 1.8  | 356,612  | 32.5  | LAB_L3_DCGROUP;ENC_L3_N |
| AST                      | 3,002,984  | 1.8  | 356,333  | 32.4  | LAB_L3_DCGROUP;ENC_L3_N |
| BASOPHILS ABSOLUTE       | 2,509,728  | 1.5  | 315,946  | 28.8  | LAB_L3_DCGROUP;ENC_L3_N |
| BILIRUBIN TOTAL B/S/P    | 2,982,962  | 1.8  | 359,325  | 32.7  | LAB_L3_DCGROUP;ENC_L3_N |
| BUN                      | 4,356,222  | 2.6  | 392,459  | 35.7  | LAB_L3_DCGROUP;ENC_L3_N |
| CALCIUM B/S/P            | 4,323,557  | 2.6  | 391,683  | 35.7  | LAB_L3_DCGROUP;ENC_L3_N |
| CHLORIDE B/S/P           | 4,322,916  | 2.6  | 391,527  | 35.6  | LAB_L3_DCGROUP;ENC_L3_N |
| CHOLESTEROL-LDL ABSOLUTE | 580,032    | 0.3  | 176,985  | 16.1  | LAB_L3_DCGROUP;ENC_L3_N |
| CREATININE B/S/P         | 4,502,392  | 2.7  | 399,604  | 36.4  | LAB_L3_DCGROUP;ENC_L3_N |
| EGFR                     | 13,986,405 | 8.3  | 383,685  | 34.9  | LAB_L3_DCGROUP;ENC_L3_N |
| GLUCOSE B/S/P            | 4,632,580  | 2.7  | 204,454  | 18.6  | LAB_L3_DCGROUP;ENC_L3_N |
| HEMATOCRIT               | 4,342,796  | 2.6  | 407,737  | 37.1  | LAB_L3_DCGROUP;ENC_L3_N |
| HEMOGLOBIN A1C           | 306,928    | 0.2  | 119,198  | 10.9  | LAB_L3_DCGROUP;ENC_L3_N |
| HEMOGLOBIN B/S/P         | 4,363,101  | 2.6  | 407,938  | 37.1  | LAB_L3_DCGROUP;ENC_L3_N |
| INR                      | 969,729    | 0.6  | 140,027  | 12.7  | LAB_L3_DCGROUP;ENC_L3_N |
| LYMPHOCYTES ABSOLUTE     | 2,557,796  | 1.5  | 321,987  | 29.3  | LAB_L3_DCGROUP;ENC_L3_N |
| MCH                      | 4,148,044  | 2.5  | 401,165  | 36.5  | LAB_L3_DCGROUP;ENC_L3_N |
| MCHC                     | 4,147,449  | 2.5  | 401,132  | 36.5  | LAB_L3_DCGROUP;ENC_L3_N |
| MCV                      | 4,150,217  | 2.5  | 401,436  | 36.6  | LAB_L3_DCGROUP;ENC_L3_N |
| MONOCYTES ABSOLUTE       | 2,512,194  | 1.5  | 316,026  | 28.8  | LAB_L3_DCGROUP;ENC_L3_N |
| NEUTROPHILS ABSOLUTE     | 2,558,425  | 1.5  | 321,948  | 29.3  | 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       | 4,478,856 | 2.6  | 404,033  | 36.8  | LAB_L3_DCGROUP;ENC_L3_N |
| POTASSIUM B/S/P | 4,533,295 | 2.7  | 392,620  | 35.7  | LAB_L3_DCGROUP;ENC_L3_N |
| RBC B/S/P       | 4,162,223 | 2.5  | 403,498  | 36.7  | LAB_L3_DCGROUP;ENC_L3_N |
| RDW             | 4,135,208 | 2.4  | 400,678  | 36.5  | LAB_L3_DCGROUP;ENC_L3_N |
| SODIUM B/S/P    | 4,490,301 | 2.7  | 392,443  | 35.7  | LAB_L3_DCGROUP;ENC_L3_N |
| TOTAL CO2       | 14,046    | 0.0  | 4,564    | 0.4   | LAB_L3_DCGROUP;ENC_L3_N |
| WBC B/S/P       | 4,187,489 | 2.5  | 403,961  | 36.8  | 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 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)                   | 8,681,048  | 728,927  | 11.9                   | 8,622,005                        | 8,622,005  | 1.00                                       | ENC_L3_ENCTYPE |
| ED (Emergency Dept)                     | 393,605    | 177,822  | 2.2                    | 351,959                          | 351,959  | 1.00                                       | ENC_L3_ENCTYPE |
| EI (ED to IP Stay)                      | 134,334    | 69,912   | 1.9                    | 133,938                          | 133,938  | 1.00                                       | ENC_L3_ENCTYPE |
| IC (Institutional Professional Consult) | 0          | 0        |                        | 0                                | 0  |  | ENC_L3_ENCTYPE |
| IP (Inpatient Hospital Stay)            | 226,143    | 139,420  | 1.6                    | 208,877                          | 208,877  | 1.00                                       | ENC_L3_ENCTYPE |
| IS (Non-acute Institutional Stay)       | 0          | 0        |                        | 0                                | 0  |  | ENC_L3_ENCTYPE |
| OA (Other Ambulatory Visit)             | 25,240,923 | 818,065  | 30.9                   | 16,804,844                       | 16,804,844   | 1.00                                       | ENC_L3_ENCTYPE |
| OS (Observation Stay)                   | 6,846      | 6,199    | 1.1                    | 6,377                            | 6,377  | 1.00                                       | ENC_L3_ENCTYPE |
| Missing, NI, UN or OT                   | 3,625,300  | 875,706  | 4.1                    | 985,236                          | 985,236  | 1.00                                       | ENC_L3_ENCTYPE |

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