

PCORnet Data Checks v2

| Category | Type | Check | Description | Changes from v1 |
|------------------------|---------------|---------|---|---|
| Data Model Conformance | Required | DC 1.01 | Required tables are not present | None |
| | Required | DC 1.02 | Expected tables are not populated | VITAL is no longer expected to be populated by all DataMarts (to accommodate claims-based DataMarts). |
| | Required | DC 1.03 | Required fields are not present | None |
| | Required | DC 1.04 | Fields do not conform to CDM specifications for data type, length, or name. | None |
| | Required | DC 1.05 | Tables have primary key definition errors | Extended to include DEATH, DISPENSING, LAB_RESULT_CM, and PRESCRIBING tables |
| | Required | DC 1.06 | Fields contain values outside of CDM specifications | Extended to include DEATH, DISPENSING, LAB_RESULT_CM, and PRESCRIBING fields |
| | Required | DC 1.07 | Fields have non-permissible missing values | Extended to include DEATH, DISPENSING, LAB_RESULT_CM, and PRESCRIBING fields |
| | Required | DC 1.08 | Tables contain orphan PATIDs (PATIDs not in DEMOGRAPHIC) | New |
| | Investigative | DC 1.09 | Tables have orphan ENCOUNTERIDS (ENCOUNTERIDS not in ENCOUNTER) for more than 5% of records. | New |
| | Required | DC 1.10 | Replication errors between the ENCOUNTER, PROCEDURES and DIAGNOSIS tables | New |
| Data Plausibility | Investigative | DC 2.01 | More than 5% of records have future dates | Extended to include DEATH, DISPENSING, LAB_RESULT_CM, and PRESCRIBING fields |
| | Investigative | DC 2.02 | More than 10% of records fall into the lowest or highest categories of age, height, weight, diastolic blood pressure, systolic blood pressure, prescribed days supply, or dispensed days supply | Extended to include DISPENSING and PRESCRIBING fields |
| | Investigative | DC 2.03 | More than 5% of records have illogical date relationships | New |
| | Investigative | DC 2.04 | The average number of encounters per visit is > 2.0 for inpatient (IP), emergency department (ED), or ED to inpatient (EI) encounters | New |
| Data Completeness | Investigative | DC 3.01 | The average number of diagnoses records with known diagnosis types per encounter is below threshold [1.0 for ambulatory (AV), inpatient (IP), emergency department (ED), or ED to inpatient (EI) encounters]. | Restricted to codes with known DX_TYPES since most PCORnet queries will only use known code types. |
| | Investigative | DC 3.02 | The average number of procedure records with known procedure types per encounter is below threshold [0.75 for ambulatory (AV) encounters, 0.75 for emergency department (ED) encounters, 1.00 for ED to inpatient (EI) encounters, and 1.00 for inpatient (IP) encounters]. | <ul style="list-style-type: none"> Restricted to codes with known PX_TYPES since most PCORnet queries will only use known code types. Changed the threshold from 1.0 to 0.75 for AV and ED encounters. |
| | Investigative | DC 3.03 | More than 10% of records have missing or unknown values for the following fields: BIRTH_DATE, SEX, DISCHARGE_DISPOSITION (IP/EI encounters only), DISCHARGE_DATE (IP/EI encounters only), PX_DATE, LOINC, RX_NORM_CUI, RX_ORDER_DATE, RX_DAYS_SUPPLY, or DISPENSE_SUP. | <ul style="list-style-type: none"> Eliminated DX_TYPE, PX_TYPE and VITAL_SOURCE since DataMarts may wish to include records with unmappable values. Eliminated "IS" from the encounter type restriction for institutional variables since they are quite different than EI/IP. Changed threshold to 10% universally instead of 5% for some and 10% for others. Added DISCHARGE_DATE, PX_DATE, LOINC, RX_NORM_CUI, RX_ORDER_DATE, RX_DAYS_SUPPLY, and DISPENSE_SUP |
| | Required | DC 3.04 | Less than 50% of patients with encounters have DIAGNOSIS records | New |
| | Required | DC 3.05 | Less than 50% of patients with encounters have PROCEDURES records | New |
| | Investigative | DC 3.06 | More than 10% of IP (inpatient) or ED to inpatient (EI) encounters with any diagnosis don't have a principal diagnosis | New |