

PCORnet Data Checks v6

| Category | Type | Check | Description | Changes from v5 |
|------------------------|---------------|---------|--|-------------------------------------|
| Data Model Conformance | Required | DC 1.01 | Required tables are not present | None |
| | Required | DC 1.02 | Expected tables are not populated | None |
| | Required | DC 1.03 | Required fields are not present | None |
| | Required | DC 1.04 | Fields do not conform to data model specifications for data type, length, or name. | None |
| | Required | DC 1.05 | Tables have primary key definition errors | Added OBS_GEN |
| | Required | DC 1.06 | Fields contain values outside of data model specifications | Added OBS_GEN and OBS_CLIN |
| | Required | DC 1.07 | Fields have non-permissible missing values | Added OBS_GEN and OBS_CLIN |
| | Required | DC 1.08 | Tables contain orphan PATIDs | Added OBS_GEN |
| | Required | DC 1.09 | Tables contain orphan ENCOUNTERIDs | Added OBS_GEN |
| | Required | DC 1.10 | Replication errors between the ENCOUNTER, PROCEDURES and DIAGNOSIS tables | None |
| | Required | DC 1.11 | More than 5% of encounters are assigned to more than one PATID | Added OBS_GEN |
| | Required | DC 1.12 | Tables contain orphan PROVIDERIDs | Added OBS_GEN |
| | Required | DC 1.13 | More than 5% of ICD, CPT, LOINC, RXCUI, or NDC codes do not conform to the expected length or content | New |
| Data Plausibility | Investigative | DC 2.01 | More than 5% of records have future dates | Added OBS_GEN |
| | 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, or dispensed days supply | None |
| | Investigative | DC 2.03 | More than 5% of patients have illogical date relationships | Added OBS_GEN and additional fields |
| | 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 | None |
| | Investigative | DC 2.05 | More than 5% of results for selected laboratory tests do not have the appropriate specimen source | None |
| | Investigative | DC 2.06 | Median lab result values for selected tests are statistical or clinical outliers | Incorporated clinical outliers |
| | Investigative | DC 2.07 | The average number of principal diagnoses per encounter is above threshold [2.0 for inpatient (IP) and ED to inpatient (EI)] | None |
| 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] | None |
| | 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] | None |
| | 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, RX_ORDER_DATE, DISPENSE_SUP, DX_ORIGIN, PX_SOURCE, VITAL_SOURCE, DEATH_SOURCE, CONDITION_SOURCE, RX_SOURCE, MEDADMIN_SOURCE, DIAGNOSIS.ENCOUNTERID, PROCEDURES.ENCOUNTERID, VITAL.ENCOUNTERID, MED_ADMIN.ENCOUNTERID, LAB_RESULT_CM.ENCOUNTERID, MED_ADMIN_CODE, MED_ADMIN_TYPE, OBS_CLIN_CODE, OBS_CLIN_TYPE, OBS_GEN_CODE, OBS_GEN_TYPE | Added 9 fields |
| | Required | DC 3.04 | Less than 50% of patients with encounters have DIAGNOSIS records | None |
| | Required | DC 3.05 | Less than 50% of patients with encounters have PROCEDURES records | None |
| | 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 | None |
| | Investigative | DC 3.07 | Encounters, diagnoses, or procedures in an ambulatory (AV), emergency department (ED), ED to inpatient (EI), or inpatient (IP) setting are less than 75% complete three months prior to the current month | None |
| | Investigative | DC 3.08 | Less than 80% of prescribing orders are mapped to a RXNORM_CUI which fully specifies the ingredient, strength and dose form | None |
| | Investigative | DC 3.09 | Less than 80% of laboratory results are mapped to LAB_LOINC | None |
| | Investigative | DC 3.10 | Less than 80% of quantitative results for tests mapped to LAB_LOINC fully specify the normal range | Excluded all flavors of null |
| | Investigative | DC 3.11 | Vital, prescribing, or laboratory records are less than 75% complete three months prior to the current month | None |
| | Investigative | DC 3.12 | Less than 80% of quantitative results for tests mapped to LAB_LOINC fully specify the SPECIMEN_SOURCE and RESULT_UNIT | Excluded all flavors of null |
| Data Persistence | Investigative | DC 4.01 | More than a 5% decrease in the number of patients or records in a CDM table | New |
| | Investigative | DC 4.02 | More than a 5% decrease in the number of patients with diagnosis, procedures, labs or prescriptions during an ambulatory (AV), emergency department (ED), or inpatient (IP) encounter. | New |
| | Investigative | DC 4.03 | More than a 5% decrease in the number of records for ICD9 or ICD10 diagnosis or procedure codes or CPT/HCPCS procedure codes. | New |