

PCORnet Data Checks v4

Category	Type	Check	Description	Changes from v3
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	None
	Required	DC 1.06	Fields contain values outside of data model specifications	None
	Required	DC 1.07	Fields have non-permissible missing values	None
	Required	DC 1.08	Tables contain orphan PATIDs	None
	Investigative	DC 1.09	Tables have orphan ENCOUNTERIDs for more than 5% of records.	None
	Required	DC 1.10	Replication errors between the ENCOUNTER, PROCEDURES and DIAGNOSIS tables	None
	Investigative	DC 1.11	More than 5% of encounters are assigned to more than one patient.	None
Data Plausibility	Investigative	DC 2.01	More than 5% of records have future dates	None
	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	Removed prescribed days supply since exceptions are reflective of source data.
	Investigative	DC 2.03	More than 5% of patients have illogical date relationships	None
	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
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, or CONDITION_SOURCE	Added data provenance variables. Data provenance may be important to investigators. For example, an investigator may only want to include billed procedures or claims data.
	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.	Added diagnoses and procedures. Overall, these domains are well correlated with encounters but there are some exceptions. Since these domains drive event ascertainment it is important to understand their completeness.
	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.	Removed LAB_NAME which will be deprecated in CDM v4.0.
	Investigative	DC 3.10	Less than 80% of quantitative results for tests mapped to LAB_LOINC fully specify the normal range.	Removed LAB_NAME which will be deprecated in CDM v4.0. Added RESULT_MODIFIER to the criteria.
	Investigative	DC 3.11	Vital, prescribing, or laboratory records are less than 75% complete three months prior to the current month.	New. Separate from 3.07 because the encounter type restriction is not applied.