Cooking with CQL – Session 33

March 28, 2019 – 1:00-2:00 PM

Using Quality Data Model (QDM)

Q: Does the new Related Person QDM datatype allow an eCQM specification to reference information about a related person that is already present in the patient's record? As an example, instead of a direct context query, maternal information may be shared in a C-CDA and incorporated into an infant's record.
A: Yes, the new QDM datatype Related Person will allow reference to information that is already present in the patient's record yet represents information about the related person.

Queries in CQL

Q: Looking at the solution for the connection of the mother and baby, is the capability for a cross-context query for a related person new to CQL?
A: Yes, it is new. We would like feedback in order to gain further understanding of the "operator" and how it is being used.

Q: Is the related person query included in the FHIR Quality Measure Implementation Guide?
A: In the FHIR Quality Measure Implementation Guide May ballot content there is an example of this use case and we are seeking comments. Terminology is also being worked on within this example. There is nothing specific about this type of query in the base FHIR Clinical Reasoning measure specification.

Value Sets and CQL

Q: What is the definition of "mother"? Is this a new value set to represent the mother relationship? I expect the new value set to represent the mother relationship
A: The concept "mother" is managed by the relationship attribute of Related Person and could be represented as a value set. If appropriate, it could also be a direct reference code. Consistency in defining relationships across all eCQMs is ideal.

Date and Time Calculations

Q: Regarding estimated due date definition – how can we be sure it's the last physical exam we're interested in. Mothers can have multiple babies over a period of time so how do we know which baby it is associated with on the mother's record? For example, if a mother has 3 pregnancies but we want to reference the 2nd pregnancy, how do we link this last due date in the second pregnancy to the mother's record?

A: This is a case of retrospective data. It might be possible to indicate a one-year time period prior to the delivery date of the referenced pregnancy. One might need to seek guidance from the American College of Obstetrics and Gynecology (ACOG) to get a definition of due date. Regardless, if the expectation is to perform a context-based query, the patient record and the related person might have to exist at the same time.