Cooking with CQL Q&As

Session 66 - Thursday, July 28, 2022

Functions in CQL

**Q:** In the Quality Improvement (QI)-Core 5.0 release, is there a function to capture principal diagnosis?

**A:** There is currently not a function defined for principal diagnosis, though it is a good candidate. The Ischemic Stroke measure has an example of capturing the principal diagnosis. The logic uses "Inpatient Encounter" to find the principal diagnosis in the code:

|  |  |  |
| --- | --- | --- |
|  | | |
|  |  | // connectathon/fhir4/cql/MATGlobalCommonFunctions\_FHIR4-4.0.000.cql | |
|  |  | define "Inpatient Encounter": | |
|  |  | [Encounter: "Encounter Inpatient"] EncounterInpatient | |
|  |  | where EncounterInpatient.status = 'finished' | |
|  |  | and "LengthInDays"(EncounterInpatient.period) <= 120 | |
|  |  | and EncounterInpatient.period ends during "Measurement Period" | |
|  |  |  | |
|  |  | // EXM105 | |
|  |  | define "Inpatient Encounter with Principal Diagnosis of Ischemic Stroke": | |
|  |  | "Inpatient Encounter" Encounter | |
|  |  | let PrincipalDiagnosis: | |
|  |  | (singleton from (Encounter.diagnosis D where D.use ~ ToConcept("Billing") and D.rank = 1)) PD | |
|  |  | return singleton from ([Condition: id in Last(Split(PD.condition.reference, '/'))]) | |
|  |  | where PrincipalDiagnosis.code in "Ischemic Stroke" | |

General CQL

**Q:** Can we use the Quality Improvement (QI)-Core 5.0 release in the September 2022 Connectathon?

**A:** The QI-Core 5.0 release will probably not be ready for the September 2022 Connectathon. We will use the4.1.1 QI-Core release for testing.

General CQL

**Q:** For the September 2022 Connectathon, is it acceptable to build measures for testing using the Quality Improvement (QI)-Core 2022 repository?

**A:** The standards team is currently addressing a few reported issues within the Visual Studio (VS) Code Clinical Quality Language (CQL) plug-in impacting some functionality (e.g., ToConcept). However, it is appropriate to use the QI-Core 2022 repository for the September 2022 Connectathon. Review known issues with the VS Code CQL plug-in at the [GitHub tracking site](https://github.com/cqframework/vscode-cql/issues).