FHIR MAT UI/UX
Questions for the Measure Developer Community
Cynthia Barton, Semantic Bits

Agenda
1. Establish Weekly Measure Developer Meetings … guidance on finding best time; Doodle Poll?
2. Deploy as one MAT or two (QDM/CQL and MAT-on-FHIR)?
3. Review recommended changes to MAT labels
Goal - Provide a Sandbox
for User Acceptance Testing; work here will not be saved in GA version

<table>
<thead>
<tr>
<th>Delivery Goal</th>
<th>Measure Developer Sandbox</th>
</tr>
</thead>
<tbody>
<tr>
<td>Convert a QDM CQL Measure to FHIR</td>
<td>Jan 28, 2020</td>
</tr>
<tr>
<td>Edit or Add Fhir Measures</td>
<td>March 1, 2020</td>
</tr>
<tr>
<td>Package/Bundle Fhir Measure</td>
<td>April 1, 2020</td>
</tr>
<tr>
<td>Minimum packaging: XML, JSON, Human Readable</td>
<td></td>
</tr>
<tr>
<td>Export, Share, Measure History</td>
<td>May 1, 2020</td>
</tr>
<tr>
<td>Bonnie on FHIR</td>
<td>Post MVP</td>
</tr>
</tbody>
</table>
# MAT Evolution: Sandbox For Fhir

<table>
<thead>
<tr>
<th>Description</th>
<th><strong>One MAT - Current Approach</strong></th>
<th><strong>Two Separate MATs</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bring forward prior measures and convert them as well as author new measures in one platform.</td>
<td>Preserve measure authoring in QDM/CQL MAT and have separate “MAT-on-FHIR” log in that does not support authoring of QDM/CQL measures</td>
</tr>
<tr>
<td></td>
<td>Unresolved: Should Measure Developer be restricted from editing QDM measures in MAT-on-FHIR?</td>
<td></td>
</tr>
<tr>
<td>Advantages</td>
<td>Simplicity</td>
<td>Makes any confusion unlikely since old and new are separated</td>
</tr>
<tr>
<td></td>
<td>We will provide a sandbox for the developers to test each feature as they arise (become available)</td>
<td></td>
</tr>
<tr>
<td>Disadvantages</td>
<td>Potential confusion</td>
<td>You would need to log on to separate MAT, it would take longer, moving measures would likely require more steps in some cases.</td>
</tr>
<tr>
<td></td>
<td>We added FHIR vs QDM differentiators</td>
<td>To reference source QDM measure for a converted FHIR measure, you’d need to go to legacy MAT</td>
</tr>
<tr>
<td></td>
<td>- in the grids</td>
<td>We will have to display QDM measures to all of them to be converted</td>
</tr>
<tr>
<td></td>
<td>- in each tab</td>
<td>Add months to the project</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Put FHIR boundaries around QDM version</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Put QDM boundaries around FHIR version</td>
</tr>
</tbody>
</table>
Current Measure Library
MAT Measure Models

An updated Model Type display differentiates the measure data model and expression logic model.

Community Feedback recommends the Model display to be:

1. QDM / QDM
2. QDM / CQL
3. FHIR / CQL

What do YOU think?
Differentiate a FHIR Measure from QDM

In the sub-tabs you'll see measure's model, in addition to seeing it in the list of measures (grid) in the measure library page.

Is this enough to inform the measure developers they are working in a QDM versus a FHIR measure?
Edit a Measure

Edit a Measure by clicking the Edit button OR by double-clicking the measure. One person thought a double click might confuse people. Is a double click to open a measure confusing?
View Human Readable?

Can the human-readable eCQM be delivered after MVP?
Current MAT Export

- ADEAnticoagAmb_v5_5_eCQM.xml
- ADEAnticoagAmb_v5_5_HumanReadable.html
- AdverseDrugEventsforPatientsTakingAnticoagulantMedicationsinanAmbulatorySetting-0.1.018.cql
- AdverseDrugEventsforPatientsTakingAnticoagulantMedicationsinanAmbulatorySetting-0.1.018.js
- AdverseDrugEventsforPatientsTakingAnticoagulantMedicationsinanAmbulatorySetting-0.1.018.xml
- MATGlobalCommonFunctions-2.0.000.cql
- MATGlobalCommonFunctions-2.0.000.json
- MATGlobalCommonFunctions-2.0.000.xml
Bundling FHIR Measures

• What are the MUST HAVE exports of FHIR measure artifacts for MVP?

Current Packaging Plan for MVP

• Minimal Package:
  • The Measure
  • The Measure logic as a CQL Library with ELM/XML, ELM/JSON and TXT/CQL

Packaging Post-MVP:

• Full Package:
  • The measure
  • The measure logic as a CQL library with ELM/XML, ELM/JSON and TXT/CQL (Maybe additional representations)
  • All included CQL libraries (recursive)
  • All terminologies reference in any library included, value sets and code systems resources.
  • Human Readable
Questions?

Cynthia Barton - cbarton@cognitivemedicine.com

Kathy Carson - kathy.carson@semanticbits.com