MAT & Bonnie User Group

Hosted by:
SemanticBits
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Disclaimer

This meeting is being recorded to ensure notes and action items are captured accurately.

Attendees who have objections to the meeting being recording are asked to let the facilitator know at this time.

Agenda and Objectives

Agenda
1. MAT Updates and Topics for Community Discussion
2. Bonnie Updates and Topics for Community Discussion
3. Tool Modernization Update
4. Community Questions & Discussion
5. Review of Resources

Objectives
- Inform MAT & Bonnie users of current and planned activities
- Create a forum to gather community feedback on future enhancements
- Foster Collaboration through open community discussion

Measure Authoring Tool

MAT 6.10 QDM

MAT 6.10 FHIR

Measure Authoring Tool

Current State:

- MAT 6.10 was released June 16th and is currently available to users.

- Detailed release notes and an updated user guide are available on the MAT web site under Training and Resources

- This version of the MAT supports the authoring of both the QDM/CQL using QDM version 5.6 as well as FHIR based measures.

- A demonstration video of the FHIR features is located on the Training and Resource page of the MAT public web site, under the Helpful Links section here: https://www.emeasuretool.cms.gov/training-resources

Measure Authoring Tool

Maintenance:

- Maintenance is usually zero down time.

- Any known downtime for maintenance will be communicated to all users via email.

- Next planned maintenance release is targeted for July 21st at 8am ET.

Measure Authoring Tool

Known Issues:

1. CQL Libraries, using MAT Global Common Functions will display validation errors if FHIR Helpers is not included.

The workaround is to reinclude FHIR Helpers if it was removed during versioning of the top level CQL Library.

2. User was unable to add kg/m2 into a measure and received an error message. The VSAC was not handling the '/' special character. The team is working to improve error messaging. The workaround provided was to update logic and the reference of kg/m2.

3. For certain measures, a general error is displayed upon measure load, preventing the user from viewing CQL errors. This is only occurring with a few measures that have been reported. The workaround is to select save on the CQL Editor to display CQL errors as expected.

Bonnie

Bonnie 3.3 QDM (Prior)
Bonnie 4.2.1 QDM
Bonnie 6.1.2 FHIR

Bonnie

Current State:

- Bonnie Prior (QDM 5.4), Bonnie QDM (QDM 5.5) and Bonnie FHIR are all available in production environments with separate credentials.

- Bonnie 4.2.1 QDM – export test patients for FHIR

- Bonnie 6.1.2 FHIR – import test patients, calculate Supplemental Data Elements (SDE), additional attribute support

Bonnie

Maintenance:

No planned maintenance currently.

Known Issues:

1. The QRDA export is not correctly reflecting relevant date time. There is no workaround, but this will be addressed in an upcoming release.

2. For Bonnie FHIR, a measure calculation error may be encountered. The tuple naming convention requires an update. The team is working with additional contributors and will address this in an upcoming release.

3. For Bonnie FHIR, measures that include stratification are not displaying properly for users to test. There is no workaround at this time, but this will be addressed in an upcoming release.

4. Some users are not able to import FHIR converted Bonnie test patients into Bonnie FHIR. The workaround is to submit a ticket to the MAT and Bonnie Issue Tracker to request assistance importing your test cases. This is only occurring for some of our users. Enhancements to accommodate this, will be addressed in an upcoming release.

Bonnie QDM

Bonnie Release Update:

Bonnie 5.0 QDM – Releasing July 19th at 5pm ET

- Incorporate QDM 5.6
- Update QDM/CQL to CQL 1.5
- Patient data will be removed if it used deprecated 5.6 attributes
- Transition users to authentication with HARP IDs
- Group Accounts will be used
- Patient conversion functionality disabled until a future Bonnie QDM release to update patient conversion defaults (mid-July)
- Users will receive a warning after 10 minute of inactivity and logged out after 15 minutes. Options for extending this timeout will be explored for future releases.

Bonnie 5.x QDM

- Incorporate requested patient conversion default enhancements
- Reintroduce the patient conversion functionality
- This will be released when the QDM 5.6 -> FHIR conversion specification is finalized

Bonnie Prior

Bonnie Release Update:

Bonnie Prior

- Reflect Bonnie 4.2.1 and will support QDM 5.5
- Requested patient conversion defaults implemented
- Users will NOT use HARP IDs to authenticate until a future release
- Group Accounts are not be reflected

Bonnie FHIR

Planned Releases:

- Release to fix patient upload issues

- Bonnie FHIR will be releasing incrementally to add new FHIR features
  - Users will be notified when those release dates are determined.
  - Attributes adding in the release will be noted in the release notes
  - Submit requests for additional QI-Core Attribute support to the MAT and Bonnie Issue Tracker: https://oncprojectracking.healthit.gov/support/projects/BONNIE MAT/summary

Bonnie FHIR

We are planning a release the second week of August to support more attributes. Expect the following Attributes:

- Condition - Severity, recorder, asserter
- Procedure - reasonCode
- Communication - Status
- ServiceRequest - reasonCode, id
- Task - Status, basedOn
- DeviceRequested -Status, intent
- Encounter - reasonCode
- MedicationAdministered -Effective
- Immunization - Occurrence
- MedicationDispense - Status, daysSupply, dosageInstruction.timing

Bonnie FHIR

Currently Supported Attributes as well as requested attributes will be linked on the Bonnie and MAT issue tracker on the summary page:
https://oncprojectracking.healthit.gov/support/projects/BONNIEMAT/summary

Bonnie

Current State:

Bonnie Prior	Bonnie QDM	Bonnie FHIR
Tool version 3.3	Tool version 4.2.1	Tool version 6.1.2
QDM version 5.4	QDM version 5.5	N/A
Next Release: July 19th	Next release: July 19th	Next release: Second week of August

Bonnie

Future state (After July 19th):

Bonnie Prior	Bonnie QDM	Bonnie FHIR
Tool version 4.2.1	Tool version 5.0	Tool version 6.1.2
QDM version 5.5	QDM version 5.6	N/A
User Sign In: Bonnie Credentials	User Sign In: HARP ID	User Sign In: Bonnie Credentials

Bonnie Transition to HARP

Bonnie Transition to HARP

- Bonnie Prior, Bonnie QDM and Bonnie FHIR will all be migrating to a new CMS environment

- Bonnie QDM - Users will sign into Bonnie using their HCQIS Access Roles and Profile (HARP) IDs with Bonnie QDM 5.0

- Bonnie Prior and Bonnie FHIR will use HARP IDs following future releases – Targeting 2nd week of August

- Users can request a HARP account here: https://harp.cms.gov/register/profile-info

Bonnie Group Account Usage Changes

- Register for a HARP account
- Register for an individual Bonnie account
- Identify accounts used as Group Accounts
- Complete the Group Account Form for new account requests or updates
  - The form can be located <u>here</u>
  - Email the completed form to sb-bonnie-help@semanticbits.com

Group Account Measures and Test Patients

- Measures and test patients residing in each Bonnie account will remain unchanged during this group account access process.
- This activity is related to access only. No changes will be made to the data residing in any existing Bonnie account.
- Note: Please contact the Bonnie team through the <u>MAT and Bonnie Issue Tracker</u> if any changes are needed to the measures and or test patients that reside in a specific account.

Bonnie User Authentication

What to expect when signing into Bonnie QDM following the 5.0 release:

- Users will sign in using their HARP ID
- If the email address previously used with your Bonnie account matches your HARP ID your account will be linked for you
- If the email address previously used is different, you will receive a message to contact the Bonnie Help Desk at: Sb-bonnie-help@semanticbits.com to provide your HARP credentials

Tool Modernization

Measure Authoring Development Integrated Environment (MADiE)

Tool Modernization

- MADiE is the modernization effort for MAT and Bonnie

  Measure Authoring Development Integrated Environment

- Current Activities

  Initial Ambassador interviews have been conducted and analysis is underway to identify themes and key takeaways for the design phase.

Community Questions & Discussion

User Submitted Topics and Questions

Question 1:

Why does "Payer" show in the Data Criteria section? None of the other Supplemental Data Elements display here. Is there a way to remove this?

Data Criteria (FHIR Data Requirements)

- "Coverage: Payer" using "Payer (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.114222.4.11.3591)"
- "Encounter: Emergency Department Visit" using "Emergency Department Visit (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.117.1.7.1.292)"
- "Encounter: Emergency Department Visit" using "Emergency Department Visit (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.464.1003.101.12.1010)"
- "Encounter: Encounter Inpatient" using "Encounter Inpatient (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.666.5.307)"
- "Encounter: Observation Services" using "Observation Services (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113762.1.4.1111.143)"
- "Encounter: Office Visit" using "Office Visit (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.464.1003.101.12.1001)"
- "Encounter: Outpatient Consultation" using "Outpatient Consultation (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.464.1003.101.12.1008)"
- "Encounter: Psych Visit - Diagnostic Evaluation" using "Psych Visit - Diagnostic Evaluation (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.526.3.1492)"
- "Encounter: Psych Visit - Psychotherapy" using "Psych Visit - Psychotherapy (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.526.3.1496)"
- "Encounter: Psychoanalysis" using "Psychoanalysis (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.526.3.1141)"
- "Encounter: Telehealth Services" using "Telehealth Services (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.464.1003.101.12.1031)"
- "Procedure: Suicide risk assessment (procedure)" using "Suicide risk assessment (procedure) (SNOMEDCT Code 225337009)"

User Submitted Topics and Questions

Question 2:

There are 'empty' or 'blank' elements in the Data Criteria section. Why do these display here? Is there a way to remove these?

Data Criteria (FHIR Data Requirements)

- "Condition"
- "Condition: Dental Caries" using "Dental Caries (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.464.1003.125.12.1004)"
- "Coverage: Payer" using "Payer (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.114222.4.11.3591)"
- "Encounter: Clinical Oral Evaluation" using "Clinical Oral Evaluation (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.464.1003.125.12.1003)"
- "Encounter: Emergency Department Visit" using "Emergency Department Visit (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.117.1.7.1.292)"
- "Encounter: Encounter Inpatient" using "Encounter Inpatient (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.666.5.307)"
- "Encounter: Observation Services" using "Observation Services (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113762.1.4.1111.143)"
- "Location"
- "Medication"
- "Provenance"
- "ServiceRequest: Hospice care ambulatory" using "Hospice care ambulatory (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113762.1.4.1108.15)"

User Submitted Topics and Questions

Question 3:

Why do all of these codes appear in the Terminology section? These codes are not used in the Population Criteria and Definitions used by the measure. Is there a way to ensure that codes not used in the measure do not display?

Terminology

- code "active" ("ConditionClinicalStatusCodes Code (active)")
- code "allergy-active" ("AllergyIntoleranceClinicalStatusCodes Code (active)")
- code "allergy-confirmed" ("AllergyIntoleranceVerificationStatusCodes Code (confirmed)")
- code "allergy-inactive" ("AllergyIntoleranceClinicalStatusCodes Code (inactive)")
- code "allergy-refuted" ("AllergyIntoleranceVerificationStatusCodes Code (refuted)")
- code "allergy-resolved" ("AllergyIntoleranceClinicalStatusCodes Code (resolved)")
- code "allergy-unconfirmed" ("AllergyIntoleranceVerificationStatusCodes Code (unconfirmed)")
- code "Billing" ("Diagnosis Role Code (billing)")
- code "Birth date" ("LOINC Code (21112-8)")
- code "Community" ("MedicationRequestCategory Code (community)")
- code "confirmed" ("ConditionVerificationStatusCodes Code (confirmed)")
- code "Dead" ("SNOMEDCT Code (419099009)")
- code "differential" ("ConditionVerificationStatusCodes Code (differential)")
- code "Discharge" ("MedicationRequestCategory Code (discharge)")
- code "entered-in-error" ("ConditionVerificationStatusCodes Code (entered-in-error)")
- code "ER" ("RoleCode Code (ER)")
- code "ICU" ("RoleCode Code (ICU)")
- code "inactive" ("ConditionClinicalStatusCodes Code (inactive)")
- code "provisional" ("ConditionVerificationStatusCodes Code (provisional)")
- code "recurrence" ("ConditionClinicalStatusCodes Code (recurrence)")
- code "refuted" ("ConditionVerificationStatusCodes Code (refuted)")
- code "relapse" ("ConditionClinicalStatusCodes Code (relapse)")
- code "remission" ("ConditionClinicalStatusCodes Code (remission)")
- code "resolved" ("ConditionClinicalStatusCodes Code (resolved)")
- code "Suicide risk assessment (procedure)" ("SNOMEDCT Code (225337009)")
- code "unconfirmed" ("ConditionVerificationStatusCodes Code (unconfirmed)")
- valueset "Emergency Department Visit" (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.:
- valueset "Emergency Department Visit" (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.:
- valueset "Encounter Inpatient" (http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.666.5.3

User Group Discussion

- Topic suggestions and questions for the User Group can also be submitted through the Bonnie MAT Issue Tracker located here:

  https://oncprojectracking.healthit.gov/support/projects/BONNIEMAT/summary

- Additional questions or comments can be submitted by using the chat feature or raising your hand and we will unmute your line.

Resources

Resources

MAT Public Website:
https://www.emeasuretool.cms.gov/

MAT 6.10:
https://www.emeasuretool.cms.gov/MeasureAuthoringTool/Login.html

Bonnie 3.3 QDM (Prior) (QDM version 5.4):
https://bonnie-prior.healthit.gov/

Bonnie 4.2.1 QDM (QDM version 5.5):
https://bonnie.healthit.gov/

Bonnie 6.1.2 FHIR:
https://bonnie-fhir.healthit.gov/

Bonnie MAT Issue Tracker:
https://oncprojectracking.healthit.gov/support/projects/BONNIEMAT/summary

eCQI Resource Center:
https://ecqi.healthit.gov/