

MAT & Bonnie User Group



August User Group

Hosted by:

SemanticBits

August 18th, 2022

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
2. Bonnie Updates
3. Tool Modernization - MADiE Updates
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 & FHIR

Measure Authoring Tool: Current State

MAT 6.10

- MAT 6.10
- Maintenance release on 7/18/22 included:
 - Newly created FHIR measures and libraries now reference the updated versions of the following libraries:
 - FHIR Helpers, called FHIRHelpers, version 4.1.000
 - Supplemental Data Elements, called SupplementalDataElementsFHIR4, version 3.0.000
 - MAT Global, version 7.0.000
 - For QDM/CQL measure packages, file names for the primary measure CQL, XML, JSON and HQMF files have been updated to include the revision number of '.xxx' at the end of the file name. This update corrects a known issue of the file names in the package not including the revision number by aligning with the naming convention used in the HQMF file.
- Release Notes are available on the MAT web site under Training and Resources
- QDM measures continue to use version 1.5.3 of the CQL-ELM translator.
- FHIR measures continue to use version 1.5.4 of the CQL-ELM translator.

Measure Authoring Tool

Maintenance:

- No planned maintenance releases at this time.
- Maintenance is usually zero down time.
- Any known downtime for maintenance will be communicated to all users via email.

Known Issues:

1. For FHIR measures, when the same CQL definition is used in Supplemental Data Elements (SDE) and as a Risk Adjustment Variable (RAV), the measure is not able to be packaged. Users will receive an error for 'duplicate id value'. The workaround is to create different definition(s) when they are needed in both SDE and RAV. ([BonnieMAT-1212](#))

Bonnie

Bonnie 4.3.1 QDM (Prior)

Bonnie 5.1.2 QDM

Bonnie 6.2.3 FHIR

Bonnie Prior: Current State

Bonnie 4.3.1 Prior

- Supports QDM 5.5
- Requested patient conversion defaults implemented
- Users use HARP IDs for authentication
- Group Account functionality is available
- Users will receive a warning after 10 minute of inactivity and logged out after 15 minutes
- Bonnie 4.3.1 Prior maintenance release on 7/19/22
 - Privacy Policy button linking to the [CMS Privacy Policy](#) added on the landing page

Bonnie QDM: Current State

Bonnie 5.1.2 QDM

- Bonnie 5.1.2 QDM maintenance release on 7/19/22
 - Privacy Policy button linking to the [CMS Privacy Policy](#) added on the landing page
- Supports QDM 5.6
- Supports QDM/CQL and CQL 1.5
- Patient conversion functionality will remain disabled

Bonnie FHIR: Current State

Bonnie 6.2.3 FHIR

- Bonnie 6.2.3 FHIR maintenance release on 7/19/22
 - Privacy Policy button linking to the [CMS Privacy Policy](#) added on the landing page

Bonnie FHIR File Size

- A configuration change was made to increase the file size for measure uploads into Bonnie FHIR. Please contact the help desk if you receive an error when uploading a measure.

Bonnie FHIR Attributes

- Attributes supported by Bonnie FHIR are linked on the Bonnie and MAT issue tracker on the summary page
- Updates have been made to reflect the current state of attribute support, naming conventions and to add clarifying footnotes
- <https://oncprojecttracking.healthit.gov/support/projects/BONNIEMAT/summary>

Bonnie

Maintenance:

No planned maintenance currently.

Known Issues:

1. The QRDA export is not correctly reflecting relevant date time. There is no workaround. We don't have plans to address this in Bonnie at this time.
2. For Bonnie FHIR, measures that include stratification are not displaying properly for users to test. There is no workaround at this time. We don't have plans to address this in Bonnie at this time.
3. For Bonnie QDM, if the result of any CQL aggregate functions, such as Count, Min, Max, Average, etc, is 0, then Bonnie currently displays 'No Result Calculated'. The Execution Engine is producing the correct results. This is a display issue only. We don't have a planned release to address this in Bonnie at this time ([BONNIEMAT-1096](#)).
4. For Bonnie QDM, when measure observations are used in ratio measures, the measure observation logic is being executed against test cases, even if that test case did not first meet the numerator or denominator criteria. When measure logic cannot be modified, there is no workaround. This will affect the pass rate of the measure. There are not plans to address this in a future release. ([BONNIEMAT-1106](#))
5. For Bonnie QDM, the CQM Model used in Bonnie does not currently support the 'is' operator when it is referencing any 'entity', which can include practitioner, patient, organization care partner or location. Logic may be able to be altered as a workaround. ([BONNIEMAT-1158](#))
6. For Bonnie Prior, test cases that include certain QDM attributes are preventing test case conversion from QDM to FHIR. The QDM attributes are PatientEntity, CarePartner, Practitioner and Organization. A workaround of removing these QDM attributes will allow the conversion to process. ([BONNIEMAT-1177](#))

Bonnie and MAT: Future State

All future MAT and Bonnie enhancements or updates will be evaluated for:

- Priority – Is it needed to support CMS contracted measure development work? Does it correct an issue?
- Level of Effort – Does this impact the delivery of MADiE?
- Benefit – Can users complete their work with or without the enhancement?

Any future MAT or Bonnie releases will be communicated to users during User Group, community and stakeholder meetings and via email communication.

MADiE

Development and User Acceptance Testing (UAT) Updates

MADiE Timelines

UAT Timelines:

- Drop 4 of MADiE kicked off on August 12th and will conclude on August 26th
- Drop 5 in October will be the final Drop before the MADiE MVP release in Fall of 2022
- Each testing cycle runs for 2 weeks – access will only be available during the active testing cycles
- MVP for public use targeted for November 2022
- Post-MVP release with export functionality targeted for February 2023

Interested in participating?


- Individuals interested in testing should send an email to semanticbits-madie-help@icf.com
- System preparation instructions will be provided to gain appropriate access

MADiE Terminology

Measure Groups or Population Criteria?

- Currently the MADiE team is considering the label “Population Criteria” to replace the label “Measure Groups”.
- “Population Criteria” & “Measure Groups” labels are related to current functionality in MAT, found in the “Population Workspace” and “Measure Packager”.
- Content related to these areas are also found in the “Human Readable” and referred to as “Population Criteria”.

MADiE Terminology

Measure Authoring Tool v6.10 (FHIR) ● Sign in to UMLS ● Sign in to Bonnie 

Measure Library **▶ Measure Composer** CQL Library CQL Composer

CN CV Test Measure (Global Malnutrition Composite Score) Draft v0.0.000 (QDM / CQL)




Measure Details CQL Workspace **▶ Population Workspace** Measure Packager Clause Workspace QDM Elements

Initial Populations

- Measure Populations
- Measure Population Exclusions
- Stratification
- Measure Observations
- View Populations

Population Workspace > Initial Populations


Caution: Removing or invalidating a population will cause any package groupings containing that population to be cleared on the Measure Packager.

Initial Population 1   

[+ Add New](#)

[<< Go to CQL Workspace](#) [Go to Measure Packager >>](#)

MADiE Terminology

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Measure Details CQL Workspace Population Workspace **▶ Measure Packager** Clause Workspace QDM Elements

+ Create New Grouping

Package Grouping (Measure Grouping 1)

Populations	Package Grouping	Grouping Details
<ul style="list-style-type: none">Initial Population 1Measure Population 1Measure Observation 1Measure Observation 2Measure Observation 3Measure Observation 4Measure Observation 5Measure Observation 6	<div style="border: 1px solid #ccc; width: 100px; height: 100px;"></div>	Score Unit <input type="text" value="UCUM code or name"/>

Save Grouping

Supplemental Data Elements

Definitions	Supplemental Data Elements
<ul style="list-style-type: none">Encounter with Malnutrition AssessmentEncounter with Malnutrition DiagnosisEncounter with Malnutrition Risk ScreeningEncounter with Malnutrition Screening At Risk ResultEncounter with Nutrition Assessment Malnourishment	<ul style="list-style-type: none">SDE EthnicitySDE PayerSDE RaceSDE Sex

MADiE Terminology

The screenshot shows the MADiE Measure Group configuration interface. The header includes the MADiE logo, 'Measure Authoring Development Integrated Environment', and navigation links for 'Measures', 'Libraries', and 'Help'. A user profile for 'Jasmine' is visible in the top right. The main content area is titled 'Intensive Care Unit Venous Thromboembolism Prophylaxis FHIR' and includes filters for 'Active', 'FHIR', 'v1.0', and the date range '1/1/2023 - 12/31/2023'. Below the filters are tabs for 'Details', 'CQL Editor', 'Groups', and 'Test Cases', with 'Groups' currently selected. A 'View Human Readable' link is also present.

Measure Group 1 * Indicates required field

Measure Group Description

This measure assesses the number of patients who received Venous Thromboembolism (VTE) prophylaxis or have documentation why no VTE prophylaxis was given the day of or the day after the initial admission (or transfer) to the Intensive Care Unit (ICU) or surgery end date for surgeries that start the day of or the day after ICU admission (or transfer)

*** Measure Group Type** *** Population Basis** **Scoring Unit**

Process | Encounters | UCUM Code or Name

*** Scoring**

Proportion

Populations | Stratifications | Calculation Notes

*** Initial Population**

Initial Population

*** Denominator** **Denominator Exclusion**

Denominator | Denominator Exclusions

*** Numerator** **Numerator Exclusion**

Numerator | -

Denominator Exception

Denominator Exceptions

Save **Cancel** **Delete**

MADiE Terminology

Measure Groups or Population Criteria?

- Does the term, “Population Criteria” generally convey to you the content found in these areas?
- Is “Population Criteria” a term used to describe content found in these areas?

Please type your answer in Chat!

Community Questions & Discussion

Help Desk Email Updates

- Help Desk Support remains through [ONC Jira - BonnieMAT Issue Tracker](#)
 - Exceptions include:
 - Bonnie Group Account Form submission and updates
 - MADiE User Acceptance Testing
- Email communications will be sent to users from updated email addresses:
 - MAT: semanticbits-mat-help@icf.com
 - Bonnie: semanticbits-bonnie-help@icf.com
 - MADiE: semanticbits-madie-help@icf.com
- SemanticBits team members now have ICF emails - the domain was updated from semanticbits.com to icf.com

Help Desk Notifications

- The ONC Jira Issue Tracking system made a security update on 5/24.
 - Following this update, users have reported that email notifications on tickets are now being sent to their junk/spam folder
- Semantic Bits emails have now been transitioned to an ICF email domain.
 - Some users have reported communications are in their junk/spam folder
- How do you know if this affects you?
 - If you submit a Jira ticket and do not receive an email response immediately following, please check your junk/spam and mark the domain as safe.
 - Check your inbox for an all user communication sent on 8/9 for PII/PHI reminder. If you didn't receive this, please check your junk/spam and mark ICF addresses as safe.

PHI/ PII

- PHI and PII are prohibited in MAT, Bonnie or MADiE.
- Measure testing should only represent synthetic patient test data.
- Report any questions or concerns to the Help Desk.



Reminder when submitting tickets...

MAT Tickets

- Indicate the tool type and Measure Model: QDM vs. FHIR
- Attach the measure package if appropriate
- Provide Screenshots of error messages

Bonnie Tickets

- Be sure to indicate tool type: Prior, QDM, FHIR
- Attach the affected test cases and reference them in the ticket by name if possible
- Attach the measure package used with the test cases
- Provide which account was used to test the measure(s)

User Group Discussion

- Topic suggestions and questions for the User Group can also be submitted through the Bonnie MAT Issue Tracker located here: <https://oncprojecttracking.healthit.gov/support/projects/BONNIEMAT/summary>
- Additional questions or comments can be submitted by using the chat feature or unmuting your own line.

Resources

Resources for Users

Bonnie and MAT Troubleshooting Guides

- Located on the ONC Jira Bonnie MAT Issue Tracker – Summary page
 - [Bonnie Troubleshooting Guide](#)
 - [MAT Troubleshooting Guide](#)

Tool Release Table

- Located on the MAT Public web site under Training and Resources/MAT Helpful Links
- [Bonnie and MAT Release Schedule](#)

Negation Rationale in Bonnie FHIR

- Located on the MAT Public web site under Training and Resources/Bonnie Helpful Links
- [Bonnie FHIR: How to use Negation Rationale](#)

Resources

MAT Public Website:

<https://www.emasuretool.cms.gov/>

MAT 6.10:

<https://www.emasuretool.cms.gov/MeasureAuthoringTool/Login.html>

Bonnie 4.3.1 QDM (Prior) (QDM version 5.5):

<https://bonnie-prior.healthit.gov/>

Bonnie 5.1.2 QDM (QDM version 5.6):

<https://bonnie.healthit.gov/>

Bonnie 6.2.3 FHIR:

<https://bonnie-fhir.healthit.gov/>

Bonnie MAT Issue Tracker:

<https://oncprojecttracking.healthit.gov/support/projects/BONNIEMAT/summary>

eCQI Resource Center:

<https://ecqi.healthit.gov/>