



# Measure Authoring Tool 6.04 QDM and FHIR

*Scheduled Maintenance Release*  
*April 01, 2021*

# Changes Included in the Maintenance Release:

- Clarifications were added to some warnings and messages
- Addressed a FHIR issue of unprintable and other Unicode characters included in FHIR Measures that were preventing packaging.
- Changed MySQL8 DB Configuration to allow a larger Unicode character set
- MAT uses UTF-8 encoding
- FHIR CQL to ELM translator updated to 1.5.2
- QDM CQL to ELM translator updated to 1.4.8
- Still CQL 1.4; No QDM changes; No export artifact changes.
- All retrieves are now included in the data requirements when FHIR Measures contain multiple Direct Reference Codes using the same Resource.
- Correction to URL used for measure type in JSON and XML FHIR export files
- Logging and Configuration changes to improve MAT performance
- eCQM ID Generation enhancement

# Included in this Release:

You can still generate an eCQM ID here

The screenshot displays the 'Measure Authoring Tool v6.04 (FHIR)' interface. The main title is 'Median Admit Decision Time to ED Departure Time for Admitted Patients Draft v9.1.008 (QDM / CQL)'. The interface includes a navigation bar with tabs for 'Measure Library', 'Measure Composer', 'CQL Library', and 'CQL Composer'. Below the navigation bar, there are tabs for 'Measure Details', 'CQL Workspace', 'Population Workspace', 'Measure Packager', 'Clause Workspace', and 'QDM Elements'. A 'Delete Measure' button is visible on the left, and a 'View Human Readable' button is on the right. The 'General Measure Information' section is highlighted with a green checkmark. This section contains the following fields:

- Measure Steward / Developer: [Green checkmark]
- Description: [Green checkmark]
- Copyright: [Green checkmark]
- Disclaimer: [Green checkmark]
- Measure Type: [Green checkmark]
- Stratification: [Green checkmark]
- Risk Adjustment: [Green checkmark]
- Rate Aggregation: [Green checkmark]
- Rationale: [Green checkmark]
- Clinical Recommendation: [Green checkmark]
- Improvement Notation: [Green checkmark]
- References: [Green checkmark]
- Definition: [Green checkmark]
- Guidance: [Green checkmark]
- Transmission Format: [Green checkmark]

The 'General Measure Information' section also includes the following fields:

- Measure Name \*: Median Admit Decision Time to ED Departure Time
- eCQM Abbreviated Title \*: CMS111
- Measure Scoring \*: Continuous Variable (dropdown)
- Patient-based Measure \*: No (dropdown)
- Finalized Date: 12/15/2020 03:27 PM
- GUID: 979f21bd-3f93-4cdd-8273-b23dfe9c0513
- eCQM Version Number: Draft v9.1.008
- eCQM Identifier (Measure Authoring Tool): 111 (with a 'Generate Identifier' button)
- Endorsed By NQF: No (dropdown)
- NQF Number: Not Applicable
- Measurement Period \*:  Calendar Year (January 1, 20XX through December 31, 20XX)
- From: [Date picker] To: [Date picker]

# eCQM ID Generation

You can now also generate the CMS ID when you create a measure or composite measure.

The screenshot displays the 'Measure Authoring Tool v6.04 (FHIR)' interface. At the top, there are navigation tabs for 'Measure Library', 'Measure Composer', 'CQL Library', and 'CQL Composer'. The current page is 'My Measures > Create New Measure'. The form includes the following fields and options:

- All fields are required.**
- Measure Name \***: A text input field.
- Model \***: Radio buttons for 'FHIR' (selected) and 'QDM'.
- Automatically Generate a CMS ID on Save.
- Match CQL Library Name to Generated ID.
- CQL Library Name \***: A text input field with a warning: 'WARNING: Long CQL Library names may cause problems upon export with zip files and file storage. Please keep CQL Library names concise.'
- eCQM Abbreviated Title \***: A text input field.
- Measure Scoring \***: A dropdown menu with '--Select--'.
- Patient-based Measure \***: A dropdown menu with 'Yes'.

At the bottom of the form are two buttons: 'Save and Continue' (blue) and 'Cancel' (red).

# eCQM ID Generation

- Select the Automatically Generate a CMS ID on Save checkbox:
  - The CMS ID will be generated on Save
- Select the Match CQL Library Name to Generated ID checkbox:
  - The CQL Library Name will be set to match the CMS ID that was generated
- Leave it unchecked if you don't want it to match the CMS ID. You'll need to fill in the library name.
- If you don't select the first checkbox:
  - No CMS ID will be generated on Save
- You still have the option to generate the ID later.

The screenshot displays the 'Measure Authoring Tool v6.04 (FHIR)' interface. At the top, there are navigation tabs for 'Measure Library', 'Measure Composer', 'CQL Library', and 'CQL Composer'. The current view is 'My Measures > Create New Measure'. The form contains several fields and options:

- Measure Name \***: A text input field.
- Model \***: Radio buttons for 'FHIR' (selected) and 'QDM'.
- Automatically Generate a CMS ID on Save.
- Match CQL Library Name to Generated ID.
- CQL Library Name \***: A text input field with a warning message: 'WARNING: Long CQL Library names may cause problems upon export with zip files and file storage. Please keep CQL Library names concise.'
- eCQM Abbreviated Title \***: A text input field.
- Measure Scoring \***: A dropdown menu with '--Select--'.
- Patient-based Measure \***: A dropdown menu with 'Yes'.

At the bottom of the form are two buttons: 'Save and Continue' (blue) and 'Cancel' (red).

# Contact Us

The MAT can be accessed from the MAT public web site [here](#).

Detailed release notes are located [here](#) on the MAT public web site, under the Training and Resources page.

The MAT support team is available to answer questions and to provide user support.

Please continue to contact MAT Support through the Bonnie and MAT Issue Tracker here: <https://oncprojecttracking.healthit.gov/support/projects/BONNIEMAT/summary>.