

# **MADiE User Group**

*March User Group*

*Hosted by ICF/SemanticBits*

*April 17<sup>th</sup>, 2025*



*MADiE is owned and operated under contract with CMS*

*Contracting Officer Representative (COR): Emmanuel Kalluri*

# Disclaimer

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

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

# Agenda and Objectives

## Agenda

1. MADiE Updates
2. Help Desk Ticket Submission Information
3. User Experience/Design Discussions
4. Community Questions & Discussions
5. Review of Resources

## Objectives

- Inform MADiE users of current and planned activities
- Create a forum to gather community feedback on future enhancements
- Foster collaboration through open community discussion

# 60 Day Account Deactivation

## Keeping your MADiE Account Active:

- In accordance with CMS and HHS security requirements, MADiE has implemented an account deactivation policy for all users who have not logged in within the previous 60 days or more.
- Users will receive warning messages after 30 days of inactivity.
- After 60 days of inactivity, accounts will be deactivated.
- To access a deactivated MADiE account again, users will need to request the MADiE role in HARP.
  - **Do NOT respond to the deactivation email.**

\*Keep your MADiE account active to continue to receive important email communications!

# MADiE

## MADiE 2.2.1

# MADiE: Current State (1 of 5)

## MADiE – 2.2.1 4/17/2025

- **QI-Core Measures:** To ensure consistencies with date/times across time zones MADiE will now force time zone offsets to be zero (UTC time zone). when a user performs any of the following:
  - Saves their test case JSON
  - Drafts their measure
  - Copies a test case
- When exporting a measure, users will have the ability to choose whether they want to "Export" the measure (containing all errors/warning/info messages in the ELM files) or "Export for Publish" (which will be a clean version that does not include the errors/warning/info messages in the ELM files) ([MADIE-2115](#))
- Resolved Known Issues:
  - The following fields are now displayed in the human readable file for a QI-Core measure: ([MADIE-2123](#))
    - Measure name
    - Effective period
    - Use Context - this is the Guidance (usage) field in MADiE
    - Copyright
    - Purpose
  - Denominator and Numerator Observations have been added to the measure report populations in test case exports ([MADIE-2146](#))
  - QDM measures may not display Risk Adjustments and/or Supplemental Data Elements due to a mismatch between CQL definitions and what is selected on the Population Criteria tab for SDE/RAV. MADiE has been updated to warn users when a mismatch exists to prevent the loss of risk adjustment and/or supplemental data elements.  
**Note:** Measures versioned prior to this update may still see this issue, but creating another draft of the measure will resolve the issue and apply the correct validations. ([MADIE-2157](#))
  - Users are now able to re-import QI-Core test cases that were exported from MADiE, updated, and repackaged correctly for import. ([MADIE-2180](#))

# MADiE: Current State (2 of 5)

## MADiE – 2.2.0 4/9/2025

- The following updates have been made on the library list page:
  - The View/Edit button beside each library in the list has been replaced with either a View or Edit button (depending on if the user has edit access to the library).
  - An “Action Center” has been moved to the top of the library list pages with icons for the following actions added:
    - Delete
    - Version
    - Draft
  - A column of checkboxes in the grid allow users to select which library on which to perform an action.
- Users now have the ability to export a measure directly from the human readable popup screen.
- **QDM Measures:** MADiE will use the values in the value sets defined in the measure CQL for Sex, Race, and Ethnicity to populate the options available in the demographics section when building test cases, and to populate the JSON and exports. ([MADIE-2142](#))
- **QI-Core Measures:**
  - MADiE now prevents a user from creating a draft off a QI-Core 4.1.1 measure if a QI-Core 6.0.0 measure (either a draft or version) has already been created for that measure.

# MADiE: Current State (3 of 5)

## MADiE – 2.2.0 4/9/2025

### QI-Core Measures:

- New QI-Core 6.0.0 measure CQL will include a common set of CQL code. This will include the following:
  - Library statement
  - Using statement
  - Statements to include the following libraries:
    1. CQMCommon
    2. FHIRHelpers
    3. QICoreCommon
    4. SupplementalDataElements
    5. CumulativeMedicationDuration
  - Parameter statement for the measurement period
  - Context statement
  - SDE definitions
- Improvement Notation is now optional in QI-Core cohort measures.
- Users now have the ability to enter terms used in the measure and their associated definitions on the measure Details tab, Definition subtab. The measure definitions will be included in the measure bundles (XML and JSON).

**Note:** Including measure definitions in the human readable export requires an update to the liquid template prior to including in a MADiE future release.



# MADiE: Current State (4 of 5)

## MADiE – 2.2.0 4/9/2025

### QI-Core Measures:

- Users now have the ability to enter a Purpose (free text) for the measure and it is included in the measure export.
- Users now have the ability to specify stratifications in ratio measures and it is included in the measure export.
- Association validations have been updated for stratified [QI-Core Ratio measures with two initial populations](#).
- Measure exports will now use a display ID for group and population ID's instead of a UUID. The group ID format will be "Group\_x" where x is the group number. The population ID format will be "PopulationName\_group#\_z" where z is the population number for that group. Examples of group and population ID's include "Group\_1", "Group\_2", and "InitialPopulation\_1\_1" and "InitialPopulation\_2\_1".  
**Note:** The Population Number ONLY displays if more than one of those populations exist in a given group (e.g., ratio measures with two IPs). ([MADIE-2147](#))
- Users can now choose to include Supplemental Data Elements (SDE) in their test case calculations and highlighting.

# MADiE: Current State (5 of 5)

## MADiE – 2.2.0 4/9/2025

### QI-Core Measures:

- Find & Replace is now available when creating or editing test case JSON. Users with view access can now use the Find feature when viewing test case JSON.
- MADiE has been updated to use CQL-ELM Translator 3.22.0. More information can be found [here](#). ([MADIE-2124](#))
- Resolved Known Issues:
  - Direct Reference Codes (DRCs) are appearing twice in measure exports if it is defined in both the measure and an included library. ([MADIE-2148](#))
- **QI-Core Measures:** SimpleObservation function not recognized in QI-Core 6.0.0 translator due to there being 2 different versions of cqframework in MADiE. ([MADIE-2153](#))

# MADiE – Known Issues (1 of 5)

The Known Issues List is posted and maintained on the [Training and Resources](#) tab on the public website and the Summary page of the [MADiE ONC Jira Issue Tracker](#).

## **CQL-ELM Translator Known Issues as of 4/17/2025:**

There is an issue in how reasonCode is getting mapped to ELM for the CommunicationNotDone datatype in QI-Core 4.1.1. Refer to the following tickets for more information on this issue:

- [https://github.com/cqframework/clinical\\_quality\\_language/issues/1153](https://github.com/cqframework/clinical_quality_language/issues/1153)
- [MADiE-1420](#)

# MADiE – Known Issues (2 of 5)

## MADiE Known Issues as of 4/17/2025:

- Users will automatically be logged out of MADiE after 30 minutes of inactivity. If the user has more than one active session of MADiE in any combination (in different tabs in the same browser or in different browsers) and one of the sessions reaches 30 minutes of inactivity the session will expire, and the user will be logged out of all sessions. If the user is logged out prior to saving changes, any unsaved changes will not be retained when the user logs into MADiE again.
  - **Workaround:** Users can keep all sessions active by clicking on the screen for each session periodically. Clicking on each active session prior to reaching 30 minutes of inactivity will prevent the sessions from expiring and prevent the user from being logged out of all sessions. [MADIE-1554](#) [MADIE-1623](#)
- Measures transferred from MAT to MADiE need to be reviewed in MADiE and the CQL updated (can just add a space to the CQL) after the transfer and prior to working with the measure (including working with test cases or exporting the measure). Until this step is complete you may see a CQL error notification on the Test Cases screen and/or during Measure Export.
- **QDM Measures:** When editing a MADiE test case that was imported from Bonnie QDM, if the test case description exceeds the allowable 250 characters, the 'Save' button is disabled and updates cannot be made to the test case.
  - **Workaround:** Edit the MADiE test case description to less than 250 characters. [MADIE-1825](#)

# MADiE – Known Issues (3 of 5)

## MADiE Known Issues as of 4/17/2025:

- Users may experience toggling back and forth between their current tab and a new tab or flickering and, in some cases, discontinuation of their MADiE session.
  - **Workaround:** Refresh the page or log out of all MADiE instances and begin a new MADiE session. [MADIE-1922](#)
- When importing QI-Core test cases from MADiE into a measure with Stratifications, the test cases will appear as if the measure does not have stratifications. This occurs even if the measure the test cases were exported from had stratifications.
  - **Workaround:** Navigate to the population criteria tab, modify any stratification, click save. Then navigate back to the test cases and stratification should now be present.
- **QDM Measures:** QRDA export will fail if a measure includes one or more test cases that have the Payer data element added, but no code selected for the data element.
  - **Workaround:** Update the impacted test cases to either add a code to the Payer data element or remove the Payer data element. [MADIE-2043](#)

# MADiE – Known Issues (4 of 5)

## MADiE Known Issues as of 4/17/2025:

- **QDM Measures:** Unexpected results are received for test cases that included a quantity prior to the update released with MADiE 2.0.7 on 10/13/2024.
  - **Workaround:** Users will need to update impacted test cases to edit the quantity and save the test case again. This will apply the update released with MADiE 2.0.7 to be applied to that test case. [MADIE-2056](#)
- **QDM Measures:** For Ratio and Continuous Variable measures, in test cases imported from Bonnie with observations, users may receive an error message and be prevented from editing the impacted test cases.
  - **Workaround:** Remove the observation expected value by zeroing out the relevant population (Numerator, Denominator or Measure Population), and then re-enter the expected values. If a test case has multiple observations, each will need to be updated accordingly. [MADIE-2090](#)

# MADiE – Known Issues (5 of 5)

## MADiE Known Issues as of 4/17/2025:

- **QI-Core Measures:** Test case execution produces unexpected results after a measure draft is versioned.
  - **Work around:** By creating a draft of the new measure version and running test cases, the test case execution will perform as expected.  
[MADIE-2191](#), [MADIE-2192](#), [MADIE-2193](#)

# QI-Core v6.0.0 CQL Libraries

## Global Shared Libraries in MADiE:

Commonly used QI-Core v6.0.0 libraries have been entered into MADiE.

QI-Core v6.0.0 Name in MADiE	Version in MADiE
CQMCommon	4.1.000
FHIRHelpers	4.4.000
QICoreCommon	4.0.000
CumulativeMedicationDuration	5.0.000
SupplementalDataElements	5.1.000



# QI-Core v4.1.1 CQL Libraries

## Global Shared Libraries in MADiE:

Commonly used QI-Core v4.1.1 libraries have been entered into MADiE.

QI-Core v4.1.1 Name in MADiE	Version in MADiE
CQMCommon	2.2.000
FHIRCommon	4.3.000
FHIRHelpers	4.4.000
QICoreCommon	2.1.000
CumulativeMedicationDuration	4.1.000
SupplementalDataElements	3.5.000

# QDM CQL v5.6 Libraries

## Global Shared Libraries in MADiE:

Commonly used QDM libraries have been entered into MADiE.

QDM 5.6 Name in MADiE	Version in MADiE
CQMCommonQDM	9.0.000
CumulativeMedicationDurationQDM	3.0.000

# Versioning Measures in MADiE

**QI-Core Measures:** When versioning MADiE measures, please double check you have selected the appropriate version (Major, Minor or Patch). A pop up will appear where a user can select Major, Minor, or Patch version. The pop up will also display the current version number, the future version number after versioning is complete, and a text area for the user to confirm the new version number. Users will need to type in the version number, and it will need to match what the tool will be updating the version number to in order to proceed.

To better understand what part of the measure version is updated when versioning a measure, see the values below. X is the value that will be incremented. P is the value that remains the same after versioning. 0 is the value that will be cleared out and set to 0 after versioning.

Major X.0.000  
Minor P.X.000  
Patch P.P.XXX

If you version your measure using the wrong version type (Major, Minor, or Patch), the MADiE Help Desk Team can help. Complete the MADiE Revert Measure Version Request Form v1.0 available on the [Training and Resources](#) tab on the public website and submit the form via email to [semanticbits-madie-help@icf.com](mailto:semanticbits-madie-help@icf.com)

**Create Version** \* Indicates required field

\* Version Type: Patch

Current Version #: 0.0.000

New Version #: 0.0.001

\* Confirm New Version #: Confirm New Version Number

Buttons: Cancel, Continue

# CMS Web Application Firewall Errors

## CMS Web Application Firewall (WAF) Issues

- CMS WAF errors are received when an attempted action (i.e. saving or exporting) is rejected by the CMS security policy, blocking further action by the user
- This can happen when working in a measure or test case that previously did not receive a CMS WAF error, or when making a change to the measure or test case

## When an action is blocked, please include the following information in your ONC JIRA ticket.

- Measure Name/ID
- Test case Name (if applicable)
- Action that resulted in unexpected error messages or an inability to save changes (include specific verbiage/CQL/JSON that was unable to save)
- Providing the error message assists the team in confirming the cause of the issue
- When error messages include a 'Support ID' include that ID number in your ticket so that can be provided to CMS to unblock the attempted action

## Examples of CMS WAF error messages:

- The Measure Authoring Tool was unable to process the request. Please try again. If the problem persists, please contact the Help Desk.
- System error. Unable to process information
- 403 Forbidden The requested URL was rejected by CMS security policy. If you believe this is in error, please contact the HIDS Security Operations Center [QNET\\_soc@cms.hhs.gov](mailto:QNET_soc@cms.hhs.gov) and reference your Support ID: 2586968644408754759

# Help Desk Ticket Submission Process (1 of 3)

The **MADiE Ticket Submission Guidance** document on the [Training and Resources](#) tab on the public website provides guidance to measure developers needing assistance with measures or test cases.

This document includes the following:

- Steps to take prior to submitting a Help Desk ticket
- When to submit a ticket to MADiE Issue Tracker (MADiEIT) and when to submit a ticket to CQL Issue Tracker (CQLIT)
- A list of artifacts to include if a ticket is being created with either CQLIT or MADiEIT for assistance with measure CQL or test case JSON

Reference the [MADiE Help Desk Process Diagram](#)

# Help Desk Ticket Submission Process (2 of 3)

## Steps to take prior to submitting a ticket:

1. **Search for an Issue:** Have a question or experiencing an issue? Search by keyword or project, see if others have submitted the same question or reported the same issue, and review the responses.
2. **If a ticket needs to be submitted, identify the appropriate Issue Tracker – CQLIT or MADiEIT**
  - Submitting tickets to the incorrect IT will increase the response time as two teams will need to review the ticket. This will delay possible resolution for the submitter.
3. **Identify the Ticket Type to be used**
  - Choices are – **Bug/Issue**, Delete Library, **Enhancement Request**, MADiE Access Question, **Question**, User Group Question/Topic, or User Research Feedback
  - The responses that are auto-generated when a ticket is created is determined by the ticket type and include additional information that may be needed for the ticket to be processed.
  - For example, the auto-response, required information, and format for that information for an Enhancement Request ticket is driven by the “Are you part of a CMS Contract” field. CMS Contractors must attach a completed Enhancement Request Form while other submitters are directed to answer several questions in the description or as a comment.

# Help Desk Ticket Submission Process (3 of 3)

## Steps to take prior to submitting a ticket (continued):

### 5. Include all required information based on the type of ticket you are creating

- Populate all applicable available fields when creating the ticket. These fields can be updated after the ticket is created by selecting “Edit” if additional information needs to be added.
- The required fields are specific to the Issue Tracker the ticket is submitted to. For example, the measure name and URL is required for the MADiEIT but is not available for the CQLIT. When tickets are moved only the data in fields available by the IT the ticket is moved to will be retained, and different data may be needed that wasn't originally entered.

### 6. Attach required artifacts and supporting documentation

- Tickets created with required information and supporting documentation missing will be sent back to the submitter with a comment listing the missing information and supporting documentation. Populating all applicable fields while creating the ticket will assist the MADiE team when processing this ticket.
- **IMPORTANT NOTE:** Until all required information and supporting documentation are included, the ticket cannot be processed. Including this information at the time of ticket creation will expedite the time from ticket creation to when the team may begin processing the ticket. **Specifically: Attach the measure package and test case export, include measure, library and/or test case URLs, and include the Enhancement Request Form when applicable for the ticket you are submitting.**

# Tickets to be Submitted to the CQLIT

Tickets submitted to the CQL Issue Tracker will be evaluated and the standards team may identify the ticket needs to be moved on to the MADiE Issue Tracker to evaluate MADiE functionality.

## The following types of tickets should be submitted to the [CQL Issue Tracker](#):

- User is experiencing a CQL error in the MADiE CQL Editor that is not resolved after reviewing resources (see list in the Ticket Submission Guidance document) and consulting with SMEs
- User is unable to resolve JSON test case error message(s) after reviewing resources (see list in the Ticket Submission Guidance document) and consulting with SMEs
- MADiE test case results are not as expected, and the following has been confirmed:
  - JSON does not contain validation errors
  - Valid CQL
  - Appropriate utilization of QI-Core Profiles:
    - [hl7.org/fhir/us/qicore/STU4.1.1/profiles.html](http://hl7.org/fhir/us/qicore/STU4.1.1/profiles.html)
    - [hl7.org/fhir/us/qicore/STU6/profiles.html](http://hl7.org/fhir/us/qicore/STU6/profiles.html)



# Tickets to be Submitted to the MADiEIT

The following types of tickets should be submitted to the [MADiE Issue Tracker](#):

- Enhancement requests
- Issues accessing the applications after verifying network or internet connection
- Tool performance issues in which do not subside after verifying network or internet connection
- Error message received which instructs the user to contact the Help Desk
- Clarification needed for functionality after review of resources
- MADiE CQL error that was not resolved after review of available resources, consulting with SMEs and/or [CQL Issue Tracker](#)
- MADiE test case error that was not resolved after review of available resources, consulting with SMEs and/or [CQL Issue Tracker](#)
- MADiE measure export inquiries
- Issues with the measure HTML file (referred to as the 'Human Readable'), in the measure package export
- MADiE test case export (QRDA or Excel) inquiries
- Library deletion requests

# Help Desk Requests Including HARP IDs

- The following requests must be submitted via email at [semanticbits-madie-help@icf.com](mailto:semanticbits-madie-help@icf.com) as they contain HARP IDs
  - Add measure or library sharing requests
  - Remove measure and library sharing access requests
  - Measure or library ownership transfer requests
  - CMS ID deletion requests
  - Revert measure version requests
  - or other inquiries with a HARP ID
- Do not submit these requests until you have confirmed that all users involved in the request have active MADiE accounts

# UXD – Enhanced Formatting for Text Fields

As requested, we provided formatting tools in the text entry fields for MADiE:

- Ability to format text to improve readability.
  - Includes the ability to create lists
- Ability to create tables that can be formatted by the users
  - Addition/ deletion of rows and columns.

The screenshot displays the MADiE (Measure Authoring Development Integrated Environment) interface. The main content area is titled 'Bone density evaluation for patients with prostate cancer and receiving androgen deprivation therapy FHIR'. Below the title, there are tabs for 'Details', 'CQL Editor', 'Population Criteria', 'Test Cases (5)', and 'Review Info'. The 'Description' field is highlighted, showing a text entry area with a rich text editor toolbar. The toolbar includes buttons for bold (B), italic (I), underline (U), strikethrough (ABC), bulleted list, numbered list, and a 'Create a table' button. A yellow callout box points to the 'Create a table' button with the text 'Create a table'. Another yellow callout box points to the text formatting toolbar with the text 'Text formatting tools.'. The text in the description field reads: 'Patient determined as having prostate cancer who are currently starting or undergoing androgen deprivation therapy (ADT), for an anticipated period of 12 months or greater and who receive an initial bone density evaluation. The bone density evaluation must be prior to the start of ADT or within 3 months of the start of ADT.' At the bottom of the page, there are links for 'Get Help', 'User Guide', 'Freedom of Information Act', 'Accessibility Policy', 'Privacy Policy', 'Rules of Behavior', 'Terms of Use', and 'cms.gov'.

# UXD – Test Cases (Current)

## Test Case (Current)

- Validation
  - Where will it live? (e.g. A New Column in the grid)
- Last saved
  - Need to be more precise (e.g. Add a timestamp to last saved)
- Description Column
  - Is it needed?
  - If it is needed, do we need the cell to contain as much information as it does currently?

The screenshot displays the MADiE (Measure Authoring Development Integrated Environment) interface. The main header shows the MADiE logo and version information. The current measure is "Bone density evaluation for patients with prostate cancer and receiving androgen deprivation therapy". The interface is divided into several sections:

- Navigation:** Home > Measure, Details, CQL Editor, Population Criteria, Test Cases (5), Review Info.
- Summary:** 40% Passing (2/5), 80% Coverage. Buttons for Reports, MADiE Import, New Case, and Run Test(s).
- Filtering:** Filter By (Select), Search (Search).
- Table:** A table with columns: Case #, Status, Group, Title, Description, Last Saved, and Edit. It lists 8 test cases with their respective statuses (Pass/Fail) and descriptions.
- Footer:** Items per page (5), 1 – 5 of 12, and pagination controls (1, 2, Next).

Case #	Status	Group	Title	Description	Last Saved	Edit
1	Pass	Series 001	Intensive Care Unit Venous Thromboembolism Prophylaxis	Patient did not receive anti-coagulant due to medical reason, but start date is after end of encounter.	02/03/2025	Edit
3	Fail	Series 005	Adult Major Depressive Disorder (MDD): Suicide Risk Assessment	Patient with Diagnosis during Encounter Performed: Psych Visit - Diagnostic Evaluation. Intervention Performed. Suicide risk Assessment before MP.	02/03/2025	Edit
4	Pass	Series 107	Global Malnutrition Composite Score	Meets IPP. DENOM - Current Age. Encounter PCSEOV During MP. Diagnosis of Hypertension takes place <=6mos. R2D2 MP. An adult outpatient visit value set overlaps the diagnosis. It's code is not allowed in the IP).	08/07/2024	Edit
7	Fail	DENEXCEPPass	DEXANotPerformedPtRefusedEdge	Systolic blood pressure labs not in encounter timing interval	08/01/2024	Edit
8	Fail	Series 201	Hospital Harm - Severe Hypoglycemia	Patient with Diagnosis during Encounter Performed: Psych Visit - Diagnostic Evaluation. Intervention Performed. Suicide risk Assessment before MP.	07/29/2024	Edit

# UXD – Test Cases (Validation)

## Option #1

- Validation Statuses:

- Valid
- Invalid
- Pending

- Potential Locations:

- Between Status and Group

The screenshot displays the MADiE (Measure Authoring Development Integrated Environment) interface. The main header shows the measure name: "Bone density evaluation for patients with prostate cancer and receiving androgen deprivation therapy". The interface includes navigation tabs for "Details", "CQL Editor", "Population Criteria", "Test Cases (5)", and "Review Info". A summary bar indicates "40% Passing (2/5)" and "80% Coverage". A table lists five test cases with columns for Case #, Status, Validation, Group, Title, Description, and Last Saved. A yellow arrow points to the "Validation" column header.

Case #	Status	Validation	Group	Title	Description	Last Saved
1	Pass	Valid	Series 001	Intensive Care Unit Venous Thromboembolism Prophylaxis	Patient did not receive anti-coagulant due to medical reason, but start date is after end of encounter.	02/03/2025
3	Fail	Invalid	Series 005	Adult Major Depressive Disorder (MDD): Suicide Risk Assessment	Patient with Diagnosis during Encounter Performed: Psych Visit - Diagnostic Evaluation. Intervention Performed. Suicide risk Assessment before MP:	02/03/2025
4	Pass	Invalid	Series 107	Global Malnutrition Composite Score	Meets IPP. DENOM - Current Age. Encounter PCSEOV During MP. Diagnosis of Hypertension takes place <=6mos. R2D2 MP. An adult outpatient visit value set overlaps the diagnosis. It's code is not allowed in the IP).	08/07/2024
7	Pass	Valid	DENEXCEPPass	DEXANotPerformedPTRefusedEdge	Systolic blood pressure labs not in encounter timing interval	08/01/2024
8	Fail	Pending	Series 201	Hospital Harm - Severe Hypoglycemia	Patient with Diagnosis during Encounter Performed: Psych Visit - Diagnostic Evaluation. Intervention Performed. Suicide risk Assessment before MP:	07/29/2024

# UXD – Test Cases (Validation)

## Option #2

- Validation Statuses:

- Valid
- Invalid
- Pending

- Potential Locations:

- Between Description and Last saved

The screenshot displays the MADiE software interface. The top navigation bar includes the MADiE logo, version information (1.4.000), model information (OI-Core v4.1.1), and a user profile for Jonathan. The main content area is titled 'Bone density evaluation for patients with prostate cancer and receiving androgen deprivation therapy'. It shows a 'Test Cases (5)' tab with a progress indicator of 40% Passing (2/5) and 80% Coverage. A table lists five test cases with columns for Case #, Status, Group, Title, Description, Validation, and Last Saved. A yellow arrow points to the 'Validation' column.

Case #	Status	Group	Title	Description	Validation	Last Saved
1	Pass	Series 001	Intensive Care Unit Venous Thromboembolism Prophylaxis	Patient did not receive anti-coagulant due to medical reason, but start date is after end of encounter.	Valid	02/03/2025
3	Fail	Series 005	Adult Major Depressive Disorder (MDD): Suicide Risk Assessment	Patient with Diagnosis during Encounter Performed: Psych Visit - Diagnostic Evaluation. Intervention Performed. Suicide risk Assessment before MP:	Invalid	02/03/2025
4	Pass	Series 107	Global Malnutrition Composite Score	Meets IPP, DENOM - Current Age. Encounter PCSEOV During MP. Diagnosis of Hypertension takes place <=6mos. R2D2 MP. An adult outpatient visit value set overlaps the diagnosis. It's code is not allowed in the IP).	Invalid	08/07/2024
7	Pass	DENEXCEPPass	DEXANotPerformedPtRefusedE dge	Systolic blood pressure labs not in encounter timing interval	Valid	08/01/2024
8	Fail	Series 201	Hospital Harm - Severe Hypoglycemia	Patient with Diagnosis during Encounter Performed: Psych Visit - Diagnostic Evaluation. Intervention Performed. Suicide risk Assessment before MP:	Pending	07/29/2024

# UXD – Test Cases (Last Saved)

Added Timestamp

The screenshot displays the MADiE (Measure Authoring Development Integrated Environment) interface. The main content area shows a table of test cases for a measure titled "Bone density evaluation for patients with prostate cancer and receiving androgen deprivation therapy". The table includes columns for Case #, Status, Validation, Group, Title, Description, and Last Saved. A yellow arrow points to the "Last Saved" column, highlighting the timestamp for each case.

Case #	Status	Validation	Group	Title	Description	Last Saved
1	Pass	Valid	Series 001	Intensive Care Unit Venous Thromboembolism Prophylaxis	Patient did not receive anti-coagulant due to medical reason, but start date is after end of encounter.	02/03/2025 (11:32:49)
3	Fail	Invalid	Series 005	Adult Major Depressive Disorder (MDD): Suicide Risk Assessment	Patient with Diagnosis during Encounter Performed: Psych Visit - Diagnostic Evaluation. Intervention Performed. Suicide risk Assessment before MP:	02/03/2025 (10:27:21)
4	Pass	Invalid	Series 107	Global Malnutrition Composite Score	Meets IPP, DENOM - Current Age. Encounter PCSEOV During MP. Diagnosis of Hypertension takes place <=<6mos. R2D2 MP. An adult outpatient visit value set overlaps the diagnosis. It's code is not allowed in the IP).	08/07/2024 (09:41:33)
7	Pass	Valid	DENEXCEPPass	DEXANotPerformedPTRefusedEdge	Systolic blood pressure labs not in encounter timing interval	08/01/2024 (12:01:17)
8	Fail	Pending	Series 201	Hospital Harm - Severe Hypoglycemia	Patient with Diagnosis during Encounter Performed: Psych Visit - Diagnostic Evaluation. Intervention Performed. Suicide risk Assessment before MP:	07/29/2024 (08:15:06)

# UXD – Test Cases (Description)

## Option #1 - Truncated

Description
Patient did not receive anti-coagulant due to medical reason, but start date is after end of encounter.
Patient with Diagnosis during Encounter Performed: Psych Visit - Diagnostic Evaluation. Intervention Performed. Suicide risk Assessment before MP:
Meets IPP, DENOM - Current Age. Encounter PCSEOV During MP. Diagnosis of Hypertension takes place <=6mos. R2D2 MP. An adult outpatient visit value set overlaps the diagnosis. It's code is not allowed in the IP).
Systolic blood pressure labs not in encounter timing interval
Patient with Diagnosis during Encounter Performed: Psych Visit - Diagnostic Evaluation. Intervention Performed. Suicide risk Assessment before MP:

The screenshot shows the MADiE web application interface. At the top, the MADiE logo and navigation links (Measures, Libraries, Help) are visible. The main header displays the measure title: "Bone density evaluation for patients with prostate cancer and receiving androgen deprivation therapy". Below this, there are tabs for "Details", "CQL Editor", "Population Criteria", "Test Cases (5)", and "Review Info".

The "Test Cases (5)" tab is active, showing a summary of test case performance: 40% Passing (2/5) and 80% Coverage. A table lists the test cases with columns for Case #, Status, Validation, Group, Title, Description, and Last Saved. The table contains 5 rows of data, with the first two rows highlighted in blue. The first row shows Case # 1, Status Pass, Validation Valid, Group Series 001, Title Intensive Care Unit Venous Thromboembolism Prophylaxis, Description Patient did not receive anti-coagulant due to medical reason, and Last Saved 02/03/2025 (11:32:49). The second row shows Case # 3, Status Fail, Validation Invalid, Group Series 005, Title Adult Major Depressive Disorder (MDD): Suicide Risk Assessment, Description Patient with Diagnosis during Encounter Performed: Psych Vis..., and Last Saved 02/03/2025 (10:27:21).

Case #	Status	Validation	Group	Title	Description	Last Saved
1	Pass	Valid	Series 001	Intensive Care Unit Venous Thromboembolism Prophylaxis	Patient did not receive anti-coagulant due to medical reason	02/03/2025 (11:32:49)
3	Fail	Invalid	Series 005	Adult Major Depressive Disorder (MDD): Suicide Risk Assessment	Patient with Diagnosis during Encounter Performed: Psych Vis...	02/03/2025 (10:27:21)
4	Pass	Invalid	Series 107	Global Malnutrition Composite Score	Meets IPP, DENOM - Current Age. Encounter PCSEOV During MP. ...	08/07/2024 (09:41:33)
7	Pass	Valid	DENEXCEPPass	DEXANotPerformedPTRefusedE dge	Systolic blood pressure labs not in encounter timing interval	08/01/2024 (12:01:17)
8	Fail	Pending	Series 201	Hospital Harm - Severe Hypoglycemia	Patient with Diagnosis during Encounter Performed: Psych Vis...	07/29/2024 (08:15:06)

At the bottom of the page, there are links for "Get Help", "User Guide", "Freedom of Information Act", "Accessibility Policy", "Privacy Policy", "Rules of Behavior", "Terms of Use", and "cms.gov". The footer includes the Measure Authoring logo and version information (Version 2.1.3).



# UXD – Test Cases (Description)

Option #2 - Removed

The screenshot displays the MADiE web application interface. At the top, the MADiE logo and navigation menu are visible. The main header shows the measure name: "Bone density evaluation for patients with prostate cancer and receiving androgen deprivation therapy". Below this, there are tabs for "Details", "CQL Editor", "Population Criteria", "Test Cases (5)", and "Review Info".

The "Test Cases (5)" tab is active, showing a summary of test case performance: 40% Passing (2/5) and 80% Coverage. A yellow arrow points to the "MADiE Import" button. Below the summary is a table of test cases with columns for Case #, Status, Validation, Group, Title, and Last Saved. The table contains five rows of data, each with an "Edit" button.

Case #	Status	Validation	Group	Title	Last Saved
1	Pass	Valid	Series 001	Intensive Care Unit Venous Thromboembolism Prophylaxis	02/03/2025 (11:32:49)
3	Fail	Invalid	Series 005	Adult Major Depressive Disorder (MDD): Suicide Risk Assessment	02/03/2025 (10:27:21)
4	Pass	Invalid	Series 107	Global Malnutrition Composite Score	08/07/2024 (09:41:33)
7	Pass	Valid	DENEXCEPPass	DEXANotPerformedPTRefusedEdge	08/01/2024 (12:01:17)
8	Fail	Pending	Series 201	Hospital Harm - Severe Hypoglycemia	07/29/2024 (08:15:06)

At the bottom of the page, there is a footer with the Measure Authoring logo, version information (2.1.3), and a disclaimer: "A federal government website managed and paid for by the U.S. Centers for Medicare & Medicaid Services. 7500 Security Boulevard, Baltimore, MD 21244".

# UXR - Implementing Matomo Analytics for MADiE



We are currently integrating Matomo Analytics to gather web analytics data from MADiE. This initiative will enable us to:

- Gain insight into application usage
- Track user engagement
- Evaluate workflows for creating measures and libraries
- Evaluate the workflows and effectiveness of testing measures
- Identify areas for improvement

# User Group Discussion



- Topic suggestions and questions for the User Group can also be submitted through the MADiE Issue Tracker located here:  
<https://oncprojecttracking.healthit.gov/support/projects/MADiE/summary>
- Additional questions or comments can be submitted by using the chat feature or unmuting your own line.
- Our next User Group will be held May 15th at 2 pm ET. A new appointment series has been created for May 2025 – April 2026, and users will receive an email with registration information. **You will need to register for the new series by clicking [here](#).**

# PII / PHI

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



# Resources

# MADiE Resources (1 of 4)

The [MADiE public website](#) provides a Login button to access MADiE

The [Training and Resources](#) tab on the public website provides:

- **User Access Guide** – how to get your MADiE account
- **User Guide** – provides details regarding tool functionality
- **JSON Test Case Guide** – steps for using the JSON test case editor. This document has been updated to include QI-Core v6.0.0 information.
- **Known Issues** – updated regularly
- **MADiE Enhancement Request Form for CMS Contractors** – additional details required when submitting an enhancement request
- **MADiE CMS ID Deletion Request Form v1.0** – to request the CMS ID associated with a draft measure with no prior versions be deleted
- **MADiE Add or Remove Measure and Library Sharing Request Form v1.1**
  - Used to request measures (and the measure's test cases) or libraries to be shared, submitted by or on behalf of the owner via email
- OR
  - Used to request measures (and the measure's test cases) or library sharing access be removed – submitted by or on behalf of the owner or by the user the measure or library is shared with via email
- **MADiE Measure or Library Ownership Transfer Request Form v2.0** – to request transferring ownership of measures (and the measure's test cases) or libraries - form should be submitted by the owner via email
- **MADiE Revert Measure Version Request Form v1.0** – to request a measure version number be reverted to a previous version number if the measure was versioned in error
- **MADiE Independent Testing Supplemental Guide v2.0**
- **Release Notes** – posted with each MADiE release
- **MADiE In Depth Training Videos**
- **External JSON Testing Help Guide** – provides instructions for users to externally test their QI-Core v6.0.0 test case JSON until MADiE can begin performing those validations

# MADiE Resources (2 of 4)

## MADiE QI-Core Profile Examples – Updated to Include QI-Core v6.0.0

- The MADiE Test Case JSON Guide v2.0, available on the [Training and Resources](#) tab on the public website, has been updated to also provide guidance to aid MADiE users in updating or creating QI-Core v6.0.0 test cases in MADiE.
- The MADiE team has created a measure in MADiE (**QI-Corev6.0.0 Test Case Template**) with an included test case JSON bundle (**QI-Corev6Example Bundle**) which contains entries for many QI-Core v6.0.0 profiles.
- To continue to support QI-Core v4.1.1 test case creation, the measure (**QI-Corev4.1.1 Test Case Template**) with one test case (**QI-Corev4.1.1 Example Bundle version 2**) is available in MADiE.
- The purpose of these test case JSON bundles is to provide users the framework for commonly used QI-Core v4.1.1 and v6.0.0 profiles that can be leveraged with their own test case development.
- The QI-Core profiles examples in the v4.1.1 and the v6.0.0 JSON bundles are for guidance and are not intended to fulfill any measure or testing requirement. Updates to reflect the specific details of your test case will be necessary.
- Measure developers may copy any of the profiles from either of the test cases to your test case(s) (of the same QI-Core version) or use a source code editor (e.g., Notepad++ and Visual Studio Code) and make any updates needed to meet your testing needs. The test cases may also be exported.

# MADiE Resources (3 of 4)

## MADiE In Depth Training Videos

- Located on the public website [Training and Resources](#) tab
  - [Log In and Measures](#)
  - [QI-Core Test Cases](#)

## MADiE Process Workflows:

- [MADiE Help Desk Process](#)
- [MADiE Enhancement Request Process](#)

## JIRA Status and Resolution Use Cases

- Located on the [MADiE Issue Tracker](#) Summary page



# MADiE Resources (4 of 4)

## MADiE 2.2.1

<https://madie.cms.gov>

## MADiE Release Schedule

Located on the public website [Training and Resources](#) tab

## MADiE Issue Tracker:

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

## eCQI Resource Center:

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