

MADiE User Group

August User Group

Hosted by ICF/SemanticBits

August 21st, 2025



MADiE is owned and operated under contract with CMS

Contracting Officer Representative (COR): Angela McLennan

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 2.2.10

MADiE: Current State

MADiE – 2.2.10 8/20/2025

Users may now use a new rich text editor control in most text entry fields. This new editor will allow use of bold, italics, underline, strikethrough, numbered list, bulleted list, and tables. The formatted text will be included in human readable and resource files in exports as well. ([MADiE-2104](#))

MADiE Help Desk Update

- The MADiE Help Desk email address has been updated.
- The new address to use moving forward is:
MADiE@cms.hhs.gov

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 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 should be reviewed prior to creating a ticket to verify if the ticket should be submitted to the MADiEIT or to the CQLIT.**

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):

4. 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.

5. 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
 - hl7.org/fhir/us/qicore/STU6/profiles.html

Tickets to be Submitted to the MADiE IT

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 MADiE@cms.hhs.gov as they contain HARP IDs
 - 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
- MADiE allows users two options for adding or removing share access for libraries and measures
 - **Preferred Method:** Users can share or unshare one or more libraries or measures via the MADiE UI
 - If users require assistance, users can submit a request to share or unshare one or more libraries or measures via email MADiE@cms.hhs.gov

UXR Update

- We are waiting on approval to submit our System Usability Scale (SUS) survey.
- We tested Matomo on the Dev environment and all went well.
- We are currently enabling Matomo in Prod to start to accumulate actual data.
 - Tabs being selected by users
 - How often and when
 - Enable automated reports to be delivered on a timely basis
 - Enable the Heatmap plugin to see how users are navigating through out the page.

UI Design – Display Measure Owner on UI

Display Location Options:

- In a column on the main measure list
- In the banner/header on measure details page
- Within the General Information -> Name, Version & ID tab/page of the measure details page

Measures Landing Page

The screenshot displays the MADiE Measures Landing Page. The page header includes the MADiE logo, navigation links for Measures, Libraries, and Help, a 'Connect to UMLS' button, and a user profile for Jonathan Jones. The main content area shows a list of measures under the 'Owned Measures (18)' tab. A yellow box highlights the 'Owner' column in the table, which lists the names of the measure owners. A yellow arrow points from the 'Owner' column header to the first row of the table.

Measure	Status	Model	Shared	CMS ID	Owner	Updated
<input type="checkbox"/> Risk-Standardized Acute Admission Rates for Patients With M...	Draft	QDM v5.6	✓	4321	Sophia Garcia	12/30/2024 Edit >
<input type="checkbox"/> Skilled Nursing Facility 30-Day All-Cause Readmission Measur...		QI-Core 4.1.1	✓	-	Ava Wilson	12/28/2024 Edit >
<input type="checkbox"/> Documentation of Clinical Response to Allergen Immunothera...	Draft	QI-Core 4.1.1		2134FHIR	Isabella Martinez	12/20/2024 Edit >
<input type="checkbox"/> Ambulatory Sensitive Conditions Admissions: Heart Failure (H...		QI-Core 4.1.1	✓	-	Olivia Davis	11/01/2024 Edit >
<input type="checkbox"/> Hospital Harm – Falls with Major InjuryFHIR...		QI-Core 4.1.1		5678FHIR	Noah Brown	10/31/2024 Edit >
<input type="checkbox"/> ColorectalCancerMeasureFHIR4...		QI-Core 4.1.1	✓	8765FHIR	Emma Smith	09/09/2024 Edit >
<input type="checkbox"/> Addressing Social Needs (ASN) in the Outpatient Setting...		QDM v5.6	✓	6758	Liam Johnson	07/11/2024 Edit >

UI Design – Display Measure Owner on UI

Display Location Options:

- In a column on the main measure list
- In the header/banner on the measure details page
- Within the General Information -> Name, Version & ID tab/page of the measure details page

Measure Details Page

The screenshot shows the MADiE Measure Details Page. The page is titled "Measure Details Page" and features a navigation bar with "Measures", "Libraries", and "Help" tabs. The user "Jonathan" is logged in. The main content area displays the "Name, Version & ID" tab for a measure named "Bone density evaluation for patients with prostate cancer and receiving androgen deprivation therapy FHIR". The measure is in "Draft" status. The "Measure Name" field is highlighted with a yellow box, and a yellow arrow points to the "Owner: Noah Brown" field. The "Measure ID" is "6de319a1-4abc-4b17-a0ee-1aa82cde3971" and the "Version ID" is "7dfc319a1-4abc-4b17-a0ee-1aa82cde4011". The "eCQM Abbreviated Title" field is empty. The "Endorsement #", "Update Version Model", "CQL to ELM Translator Version", and "Intended Venue" fields are also visible.

UI Design – Display Measure Owner on UI

Display Location Options:

- In a column on the main measure list
- In the header/banner on the measure details page
- Within the General Information -> Name, Version & ID tab/page of the measure details page

Measure Details Page

The screenshot displays the MADiE (Measure Authoring Development Integrated Environment) interface. The top navigation bar includes 'Measures', 'Libraries', 'Help', 'Connect to UMLS', and a user profile for 'Jonathan'. The main header shows the measure title: 'Bone density evaluation for patients with prostate cancer and receiving androgen deprivation therapy FHIR', along with version '1.4.000', model 'QI-Core v4.1.1', and a 'Draft' status. The left sidebar lists various tabs: 'General Information', 'Name, Version & ID' (selected), 'Model & Measurement Period', 'Contributors', 'Measurement Overview', 'Description', 'Rationale', 'Purpose', 'Clinical Recommendation', 'References', 'Definition', 'Guidance (Usage)', 'Use Context & Tags', 'Stratification', 'Measure Set', 'Transmission Format', 'Legal', 'Copyright', and 'Disclaimer'. The 'Name, Version & ID' tab contains several input fields: 'Measure Name' (filled with 'Bone density evaluation for patients with prostate cancer and receiving androgen...'), 'Measure CQL Library Name' (empty), 'Measure ID' (filled with '6de319a1-4abc-4b17-a0ee-1aa82cde3971'), 'Version ID' (filled with '7dfc319a1-4abc-4b17-a0ee-1aa82cde4011'), 'eCQM Abbreviated Title' (empty), 'Measure Owner' (highlighted with a yellow box and containing 'Noah Brown'), 'CMS ID' (empty), 'Experimental' (checkbox), 'Endorsing Organization' (dropdown), 'Endorsement #' (text field), 'Update Version Model' (dropdown with 'STU4'), 'CQL to ELM Translator Version' (dropdown with '3.3.2 - Current'), 'Always Use' (checkbox), 'CQL to ELM Translator Version' (text field with '3.3.2 - Current'), and 'Intended Venue' (dropdown with 'Select'). A yellow arrow points from the 'Measure Owner' field to a larger yellow box on the right containing the text 'Measure Owner' and 'Noah Brown'.

UI Design – Calculation Tool

From the original Help Desk ticket/enhancement request:


"Measure developers often use an external tool to help figure out age, counts of days between two dates and adding/subtracting from a date to help test edge cases. Trying to figure out the dates to insert in Bonnie can be error prone and time consuming."


External calculation tool screenshot (used current-day)

Days Calculator: Days Between Two Dates

How many days, months, and years are there between two dates?

[Count Days](#) [Add Days](#) [Workdays](#) [Add Workdays](#) [Weekday](#) [Week No](#)

Start Date
Month: Day: Year: Date:
11 / 1 / 2021 
[Today](#)

End Date
Month: Day: Year: Date:
8 / 18 / 2025 
[Today](#)

☒ **Include end date in calculation (1 day is added)**

[Add time fields](#)
[Add time zone conversion](#)

[Count only workdays](#)

Calculate Duration

From and including: **Monday, November 1, 2021**
To and including: **Monday, August 18, 2025**

Result: 1387 days

It is 1387 days from the start date to the end date, end date included.

Or 3 years, 9 months, 18 days including the end date.

Or 45 months, 18 days including the end date.

Alternative time units

1387 days can be converted to one of these units:

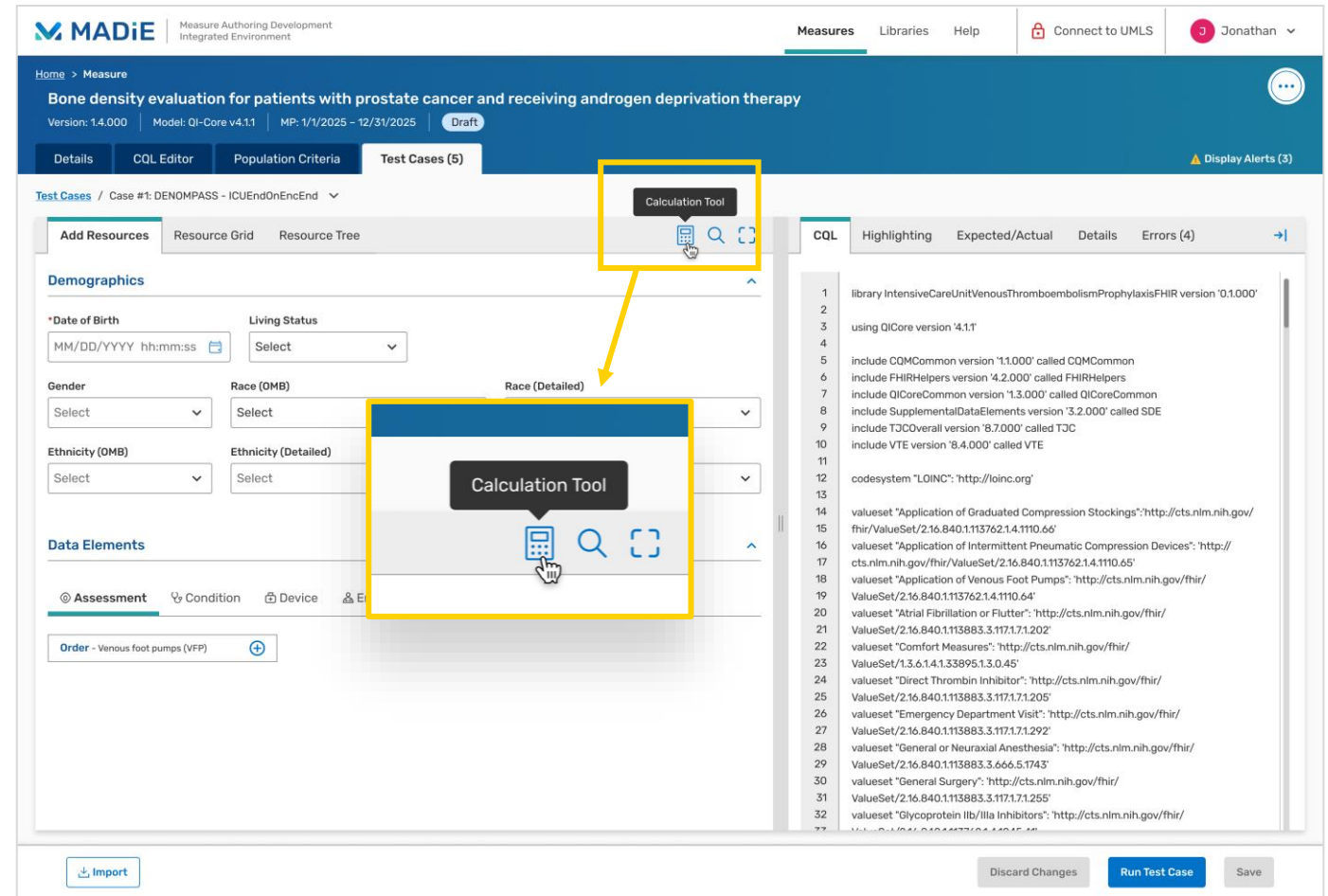
- 119,836,800 seconds
- 1,997,280 minutes
- 33,288 hours
- 1387 days
- 198 weeks and 1 day
- 380.00% of a [common year](#) (365 days)

UI Design – Calculation Tool

A tool accessible from any screen in MADiE that allows a user to:

1. **Duration/Difference:** Provide two dates to calculate the duration and difference between them, and indicate the preferred level of precision for the result.
2. **Computed Date:** Provide a date, choose to add or subtract, enter a number, and pick a time unit (days, weeks, months, or years) to calculate a new date.

Proposed location for icon-button



UI Design – Calculation Tool

Use Case #1: Duration/Difference

Provide two dates to calculate the duration and difference between them and indicate the preferred level of precision for the result.

Duration/Difference tab

Calculation Tool

Duration/Difference

Computed Date

Provide two dates to calculate the duration and difference between them, and indicate the preferred level of precision for the result.

Start Date

End Date

Precision

12/31/2024

01/01/2025

Years

Today

Today

☐ Include end date in calculation (1 day is added)

Calculate

Duration Result

Difference Result

0 years

1 year

Close

8/21/2025

21

UI Design – Calculation Tool

Use Case #2: Computed Date

Provide a date, choose to add or subtract, enter a number, and pick a time unit (days, weeks, months, or years) to calculate a new date.

Computed Date tab

Calculation Tool

Duration/Difference

Computed Date

Provide a date, choose to add or subtract, enter a number, and pick a time unit (days, weeks, months, or years) to calculate a new date.

Initial Date

Add/Subtract

Days/Weeks/Months/Years

01/15/2025

☐ (+) Add

☒ (-) Subtract

45

Days

Calculate

Computed Date

12/02/2024

Copy

Close

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 September 18th at 2 pm ET.

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 v2.1** – 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
- **Version Information** – provides information about third party tools used by MADiE and the global shared libraries
- **MADiE Enhancement Request Form for CMS Contractors** – additional details required when submitting an enhancement request
- **MADiE CMS ID Deletion Request Form v1.1** – 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 v1.2**
 - 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 v2.1** – 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 v1.1** – 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 v2.1, 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 2.2.10

<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/>