

# MADiE Independent Testing Supplemental Guide

## Overview

The purpose of this document is to provide guidance for individuals performing independent testing in Measure Authoring Development Integrated Environment (MADiE). Independent testing refers to the testing of a measure by building test cases against a measure by someone other than the measure developer of the measure—an implementer of the measure. MADiE does not support creating a ‘clone’ of a measure as the Measure Authoring Tool (MAT) does, and MADiE testing works differently than Bonnie and does not include ‘Group Accounts’, so the process to begin independent testing on a measure in MADiE is different. This guidance is applicable to measure packages exported from the MAT, measure packages that are independently posted, or measures that currently exist in MADiE. The guidance included in this document is a supplement to the MADiE User Guide, which is available on the [MADiE MVP tab](#) of the MAT public site.

**Note:** The legacy tools MAT (Measure Authoring Tool) and Bonnie – which includes Bonnie Prior, QDM (Quality Data Model) and FHIR (Fast Healthcare Interoperability Resources) – **will no longer be accessible after June 28<sup>th</sup>, 2024**. Complete the process of migrating measures, libraries and test cases to MADiE by June 28<sup>th</sup>, 2024.

## Creating a Measure for Independent Testing

The first step in performing independent measure testing in MADiE is to create a new measure that will be a copy of the measure you are testing. Follow the instructions in the MADiE User Guide on creating a measure to create your copy of the measure you wish to perform independent testing on. There are a couple of changes to the measure creation process which are updating the Measure Name and the measure CQL Library Name.

1. **Do not use the same Measure Name used in the measure developer’s measure.** Consider adding a suffix or prefix to the name to easily distinguish the name of the measure you are creating from the measure developers measure name. For example, your organization name could be used as a prefix to the measure name to distinguish the measure from the original, as shown in the example below:
  - **Measure developer measure name:** Proportion Measure
  - **Independent testing measure name:** Organization ABC Proportion Measure
2. **Do not use the Measure CQL Library Name as is used in the measure developer’s measure.** The name must be unique and not match any other CQL Library Name in MADiE. You may update the CQL Library Name similar to how you updated the Measure Name (example shown below), or in a different way-as long as it is updated in some way to be unique.
  - **Measure developer CQL Library name:** ProportionMeasure
  - **Independent testing CQL Library name:** OrganizationABCProportionMeasure
3. Populate the remaining fields in the New Measure creation modal with the same information contained within the measure developer’s measure and select ‘Continue’ to create your measure copy for independent testing.

4. Verify the CQL Libraries (including version numbers) used in the measure CQL already exist in MADiE. This can be done by looking on the 'All CQL Libraries' tab and search for the CQL Library by name. If your measure uses a CQL Library that does not already exist in MADiE, you have two options:
  - If the timeline for your work allows you to wait until the CQL Library owner has added the CQL Library to MADiE, this is preferred as it will prevent CQL Libraries from being duplicated in MADiE.
  - If your timeline does not allow for waiting for the CQL Library owner to add the library in MADiE you may create a new CQL Library using the CQL from the CQL Library used by your measure. You will need to take two steps:
    - a. **Update the name of the CQL Library:** The name must be unique and not match the name of any other CQL Library in MADiE or any other CQL Library that existed in the MAT and will be added to MADiE in the future. You may update the CQL Library Name similar to how you updated the Measure CQL Library Name (example shown below), or in a different way-as long as it is updated in some way to be unique.
      - **Measure developer CQL Library name:** ProportionLibrary
      - **Independent testing CQL Library name:** OrganizationABCProportionLibrary
    - b. Update your measure's CQL to reference the name used when you created your CQL Library.

Refer to the detailed instructions in the MADiE User Guide, which is available on the [MADiE MVP tab](#) of the MAT public site.

5. Copy and paste information from the measure developer's measure to complete the measure creation process. Refer to the detailed instructions in the MADiE User Guide, which is available on the [MADiE MVP tab](#) of the MAT public site.
  - Details Tab
  - CQL Editor Tab
  - Population Criteria Tab

### Creating Test Cases for Independent Testing

Once the measure has been created, test cases can be added for independent testing. There are several options for creating test cases in MADiE. Refer to the detailed instructions in the MADiE User Guide, which is available on the [MADiE MVP tab](#) of the MAT public site. There are four methods testers can use to add test cases:

1. Import Bonnie QDM Test Cases
2. Import Bonnie FHIR Test Cases
3. Import MADiE FHIR Test Cases
4. Create New Test Cases

## Feedback and Support

An issue tracker and feedback email list are available to support the resolution of issues and to answer questions related to the MADiE application. The Bonnie MAT MADiE Issue Tracker is available on the [ONC Jira system](#).