

How to Externally Validate Test Case JSON

Currently MADiE does not perform FHIR validations on the QI-Core STU6 test case JSON. This guide details how to validate your test case JSON with the HL7 FHIR validator. This validator can be found at <https://validator.fhir.org/>

Follow the steps below to validate your test case JSON. in the validator with the same rules MADiE will have once validations are turned on.

1. Navigate to <https://validator.fhir.org/> in your preferred web browser

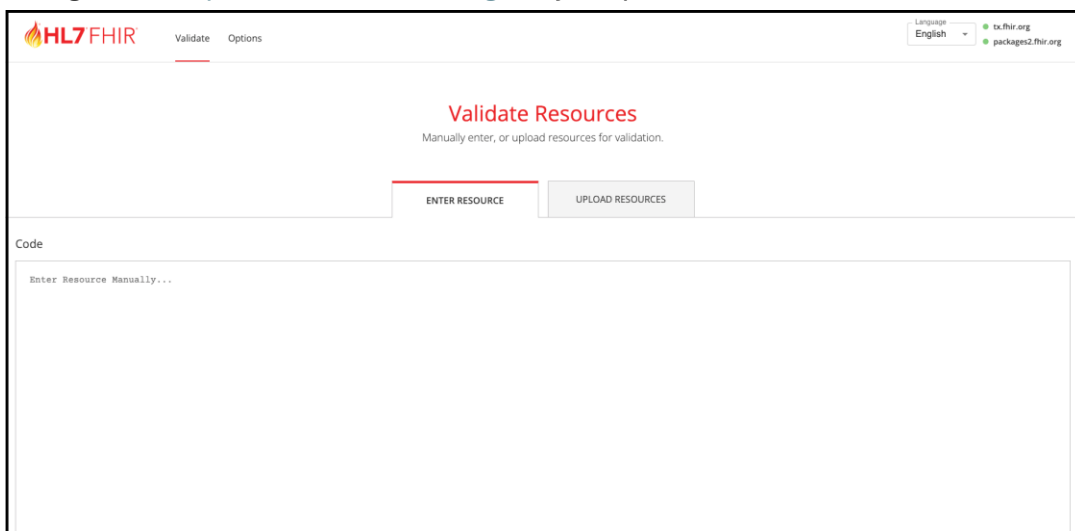


Image: HL7 Validator landing page

2. Select the Options tab in the upper tab

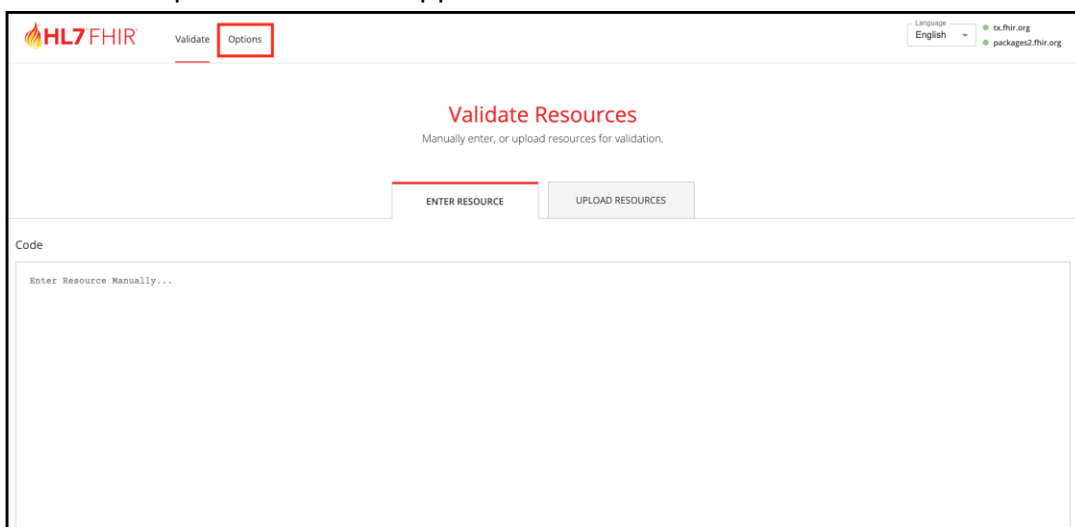


Image: HL7 Validator Landing page – Options Tab Highlighted

3. Scroll down to the FHIR version. Your test case would have been written in MADiE based on FHIR 4.0.1, so select 4.0.1

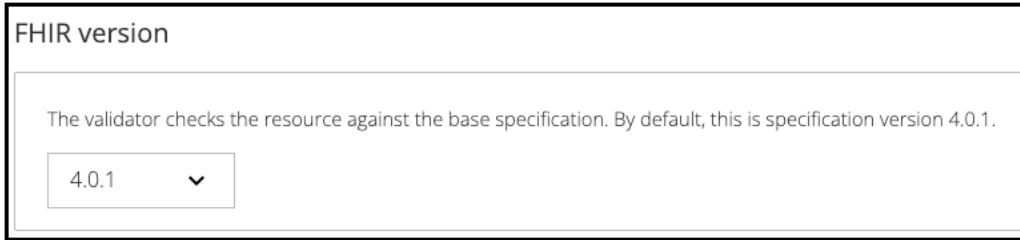


Image: FHIR Version Selector

4. Next, set the Implementation Guides. To validate like MADiE will, users need to select **hl7.fhir.us.qicore** version **6.0.0**. Users can add other implementation guides if they wish, but it may provide different results than MADiE
 - a. First, search for “qicore” in the Select IG drop down. Select one of the qicore options (it doesn’t matter which one)

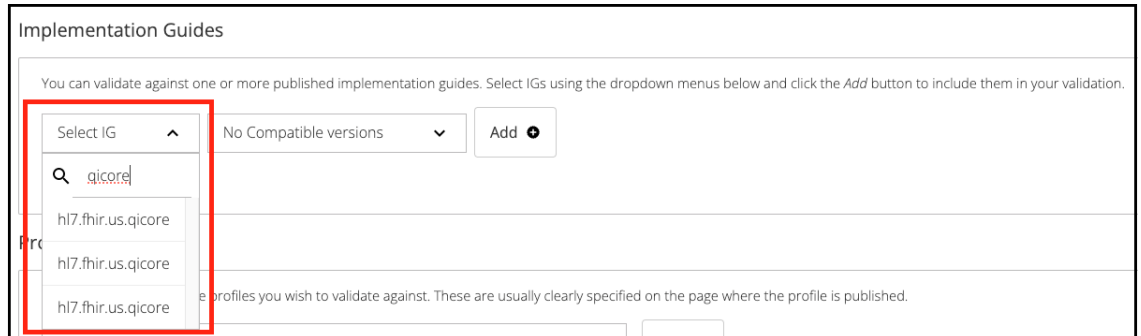


Image: Implementation Guide – Select IG Drop Down

- b. Select the IG version. Select 6.0.0. Note: if you haven’t set FHIR version first, then you will not have the correct versions in the drop down.

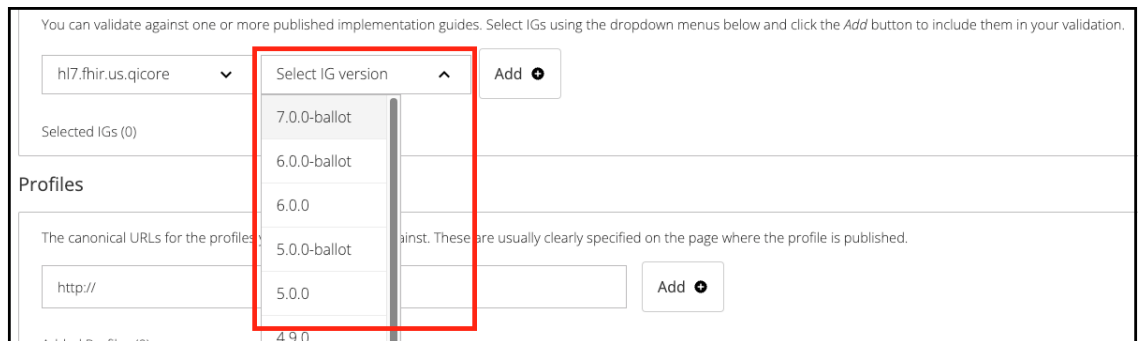


Image: Implementation Guide – Select IG Version

c. Finally, select “Add”

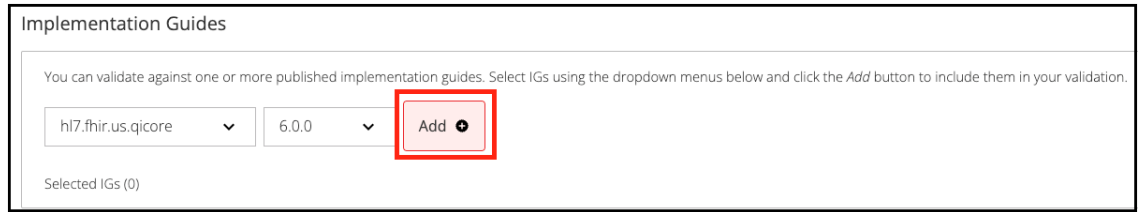


Image: Implementation Guide – Add Button

5. No other options need to be set or changed. So, navigate back to the Validate Tab

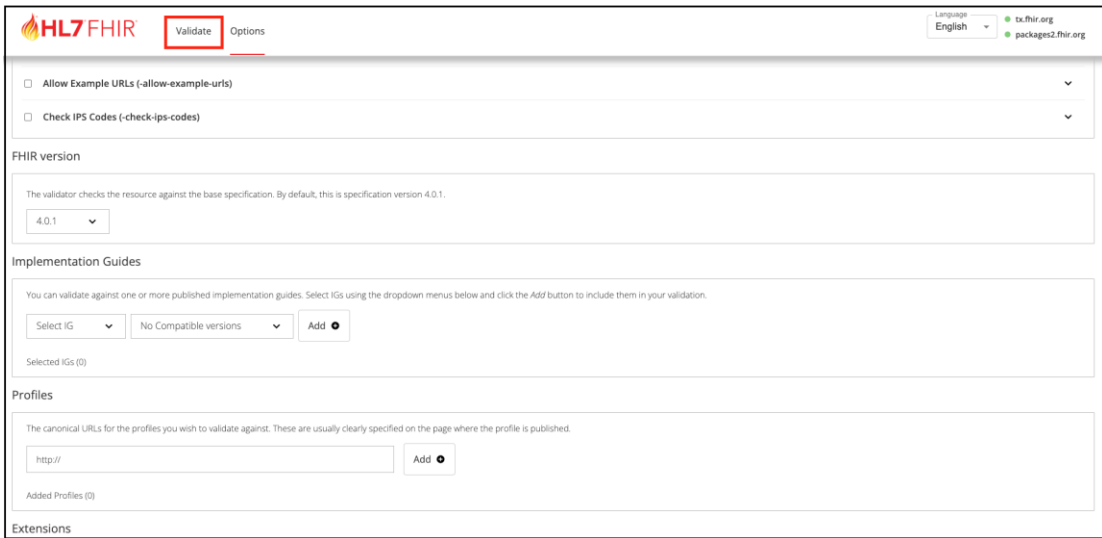


Image: Options Tab – Highlighting Validation

6. Open the test case to validate in MADiE

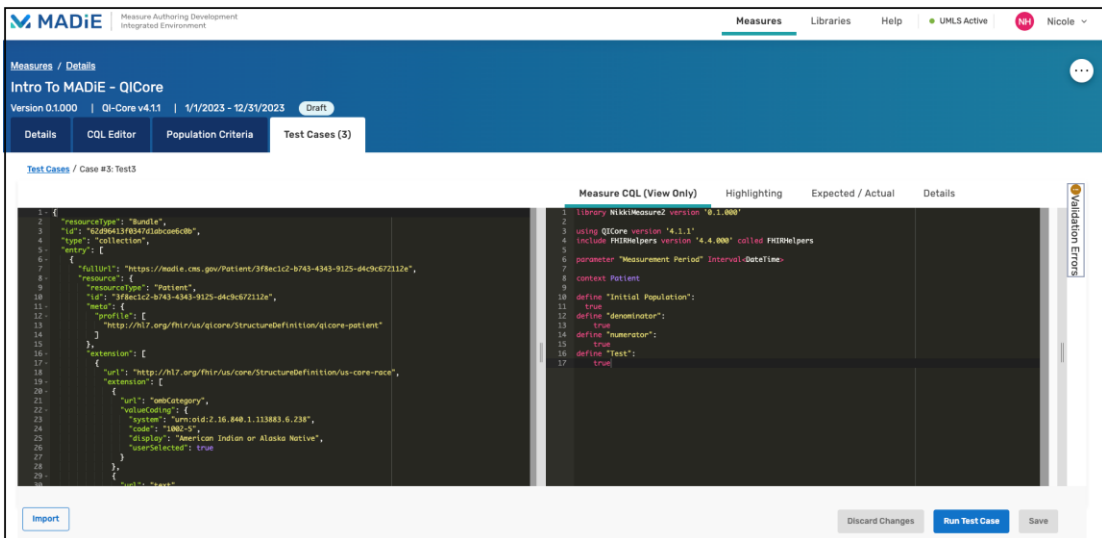


Image: MADiE Test Case Edit Page

7. Select all the JSON and copy it to your clipboard
8. Paste the JSON into the HL7 validator Code text area

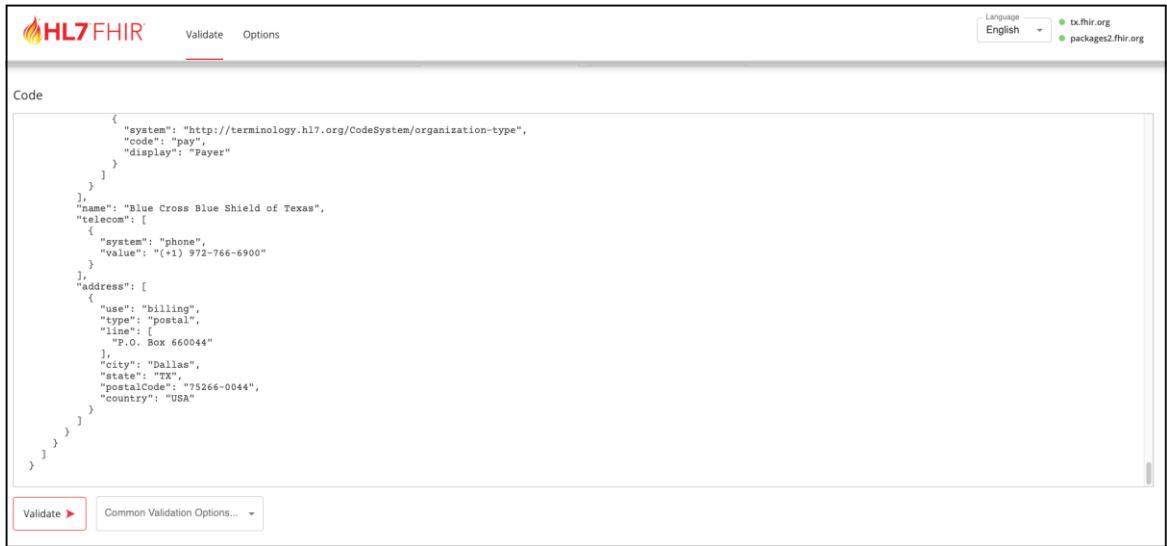


Image: Validator Code

9. Click "Validate", leaving "Common Validation Options..." Drop down empty. This process may take a few minutes to complete.

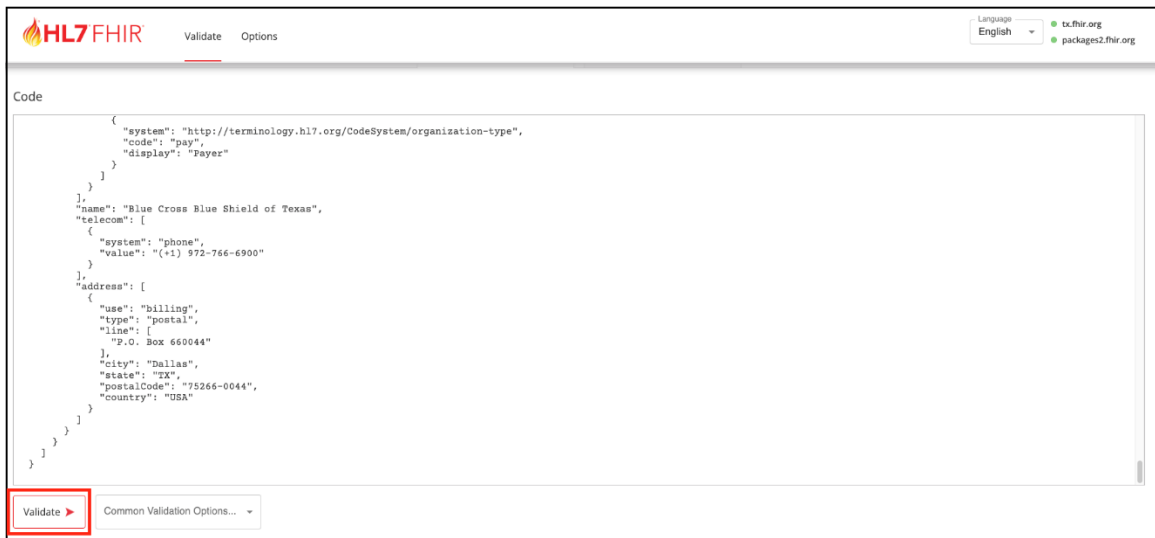


Image: Validator Validate Button

10. Scroll down to see results. The left side column shows your test case JSON and where the Fatals, Errors, Warnings, or Information appear. The right column shows

you the detailed message around the FataIs, Errors, Warnings, or Information.

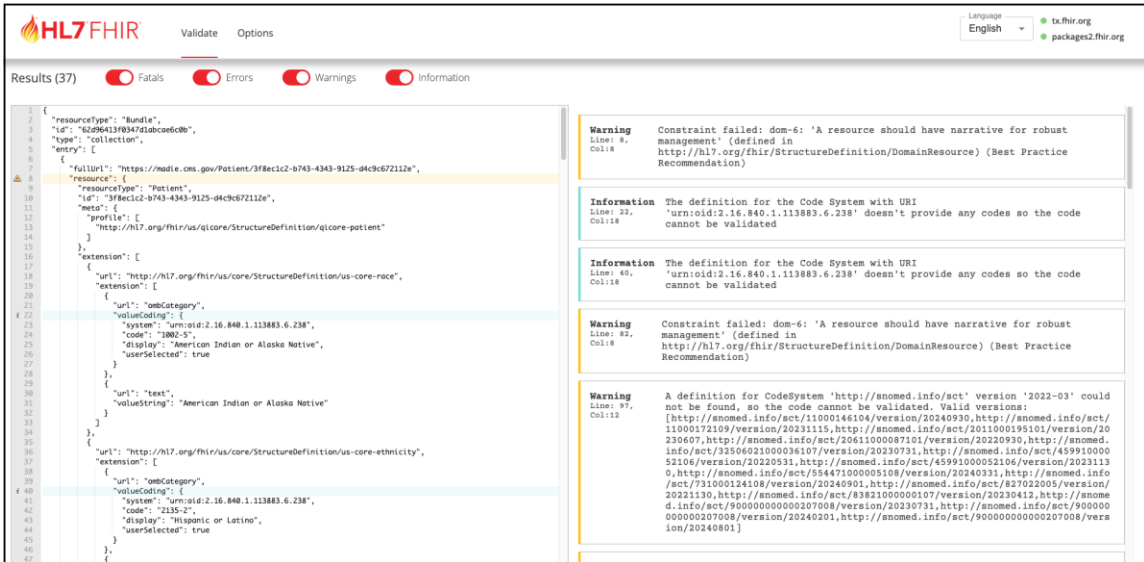


Image: Validation Results

11. If you only want to see FataIs and Errors, use the switches to switch off Warnings and Information. You can filter with these however you wish.

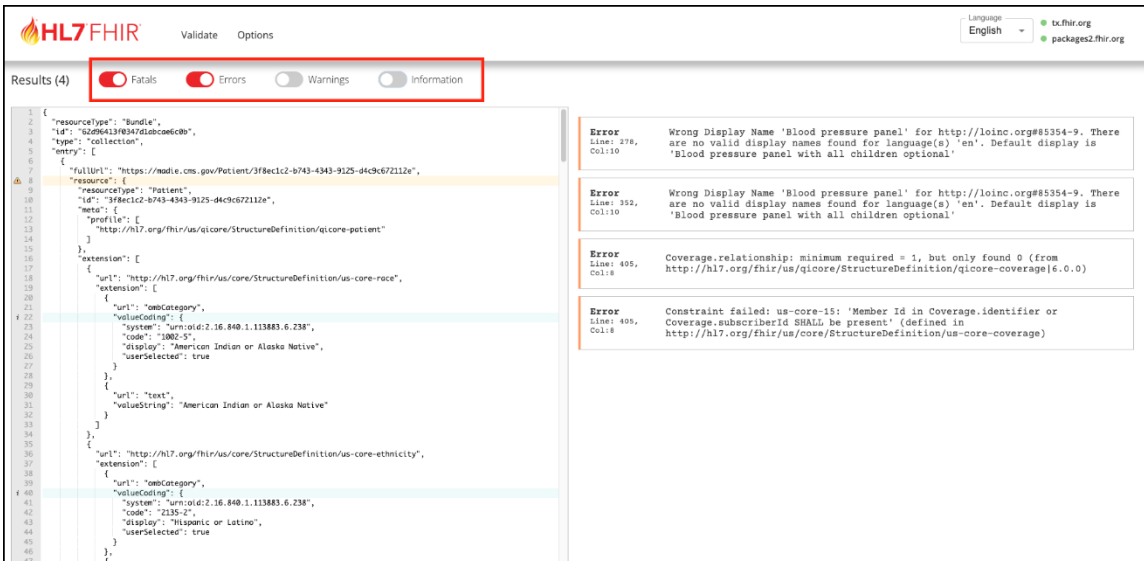


Image: Validation Results – Filtered

12. To resolve any FataIs, Errors, Warnings, or Information users can do one of the following

- a. Edit in MADiE
 - i. Users would navigate back to MADiE Test cases.
 - ii. Edit the JSON.
 - iii. Then delete the JSON in the HL7 validator code text area.

- iv. Complete Steps 6-11 to see how the new JSON validates.
 - v. Continue to repeat these steps until your JSON is in a satisfactory state.
- b. Edit in the validator
- i. Scroll up to the HL7 validator code text area.
 - ii. Find the line of JSON to change and make your updates.
 - iii. Click “Validate” to see how the updates to the JSON validate.
 - iv. Repeat these steps until your JSON is in a state you are happy with.
 - v. Select all of the JSON in the HL7 validator code text area and copy it.
 - vi. Navigate back to MADiE.
 - vii. Replace the test case JSON with the copied JSON.
 - viii. Save the MADiE Test Case.

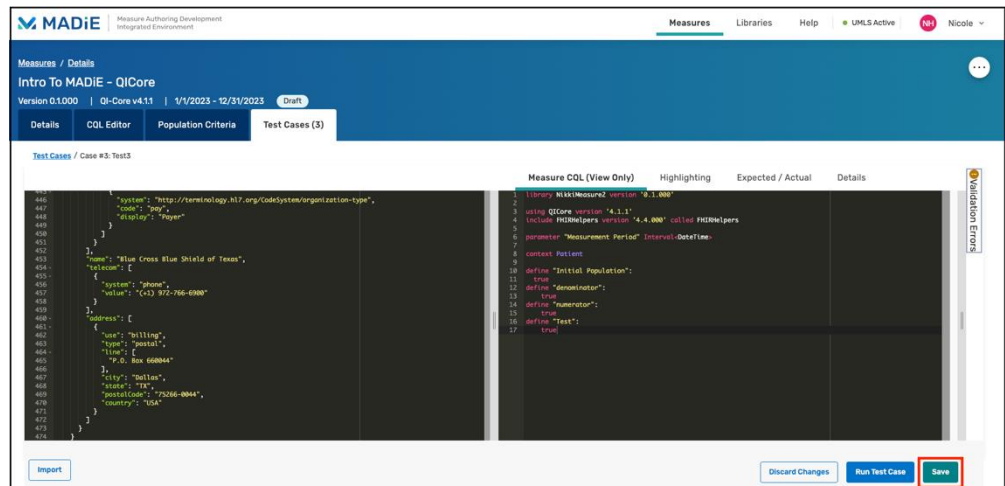


Image: MADiE Test Case Edit – Save Button