# BRICS USER GUIDE

FHIR Tool

CHAPTER 13 – FHIR Tool

13.1 FHIR Objective

The data dictionary includes a **FHIR-to-CDEs** tool that ensures compatibility between clinical research data and **FHIR** profiles. This mapping enables the seamless integration of clinical data collected **via FHIR-compliant systems** into the **BRICS** ecosystem, ensuring a streamlined flow of standardized data between healthcare and research systems.

13.1 Navigation to FHIR Tool

1. Navigate to the BRICS webpage
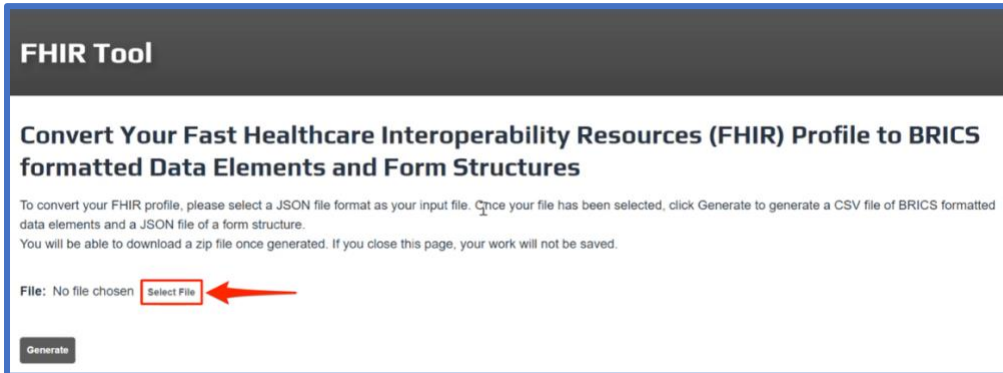2. Select the Tools page at the top of the page
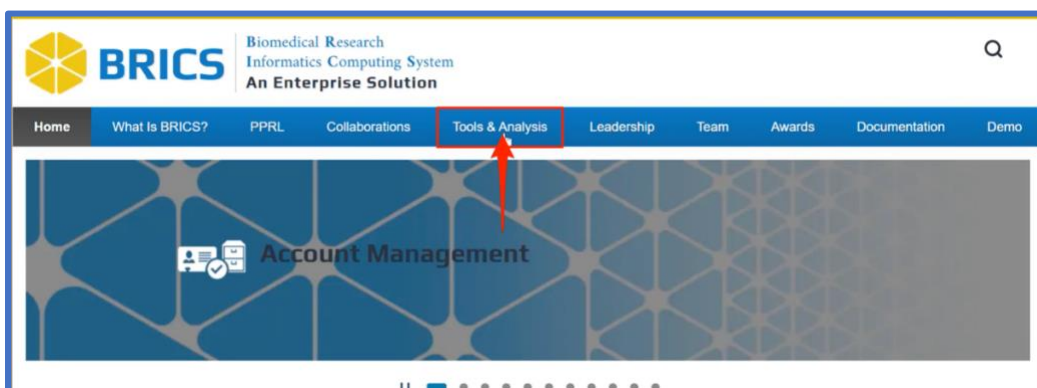
3. Select the FHIR Mapping Tool button to open the page
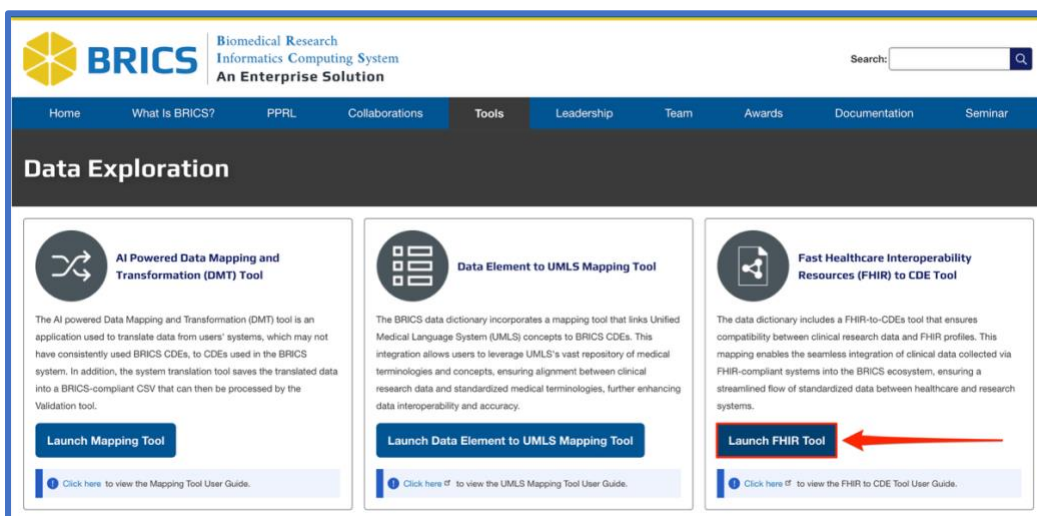
13.2 Using the FHIR Tool

1. Click **Select File** and select **the FHIR Profile file** to convert.
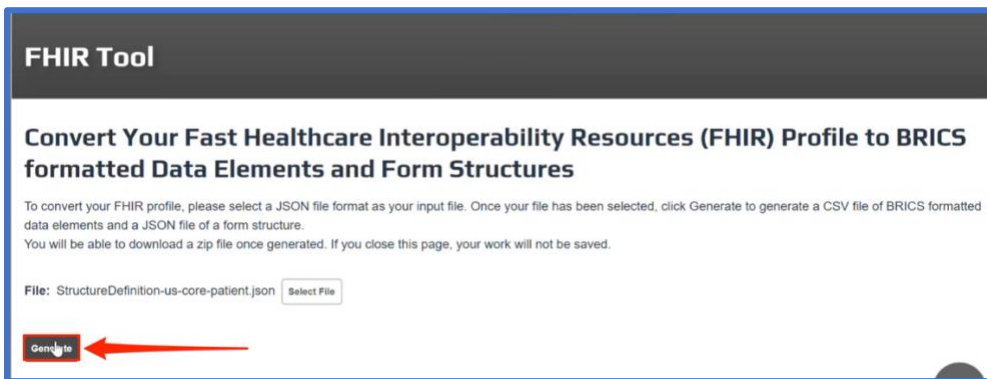
2. Click the **Generate** button

3. After processing, click the "Download Converted Files" and it will download the zip file containing the data elements and the form structures. Open the file to see the contents:
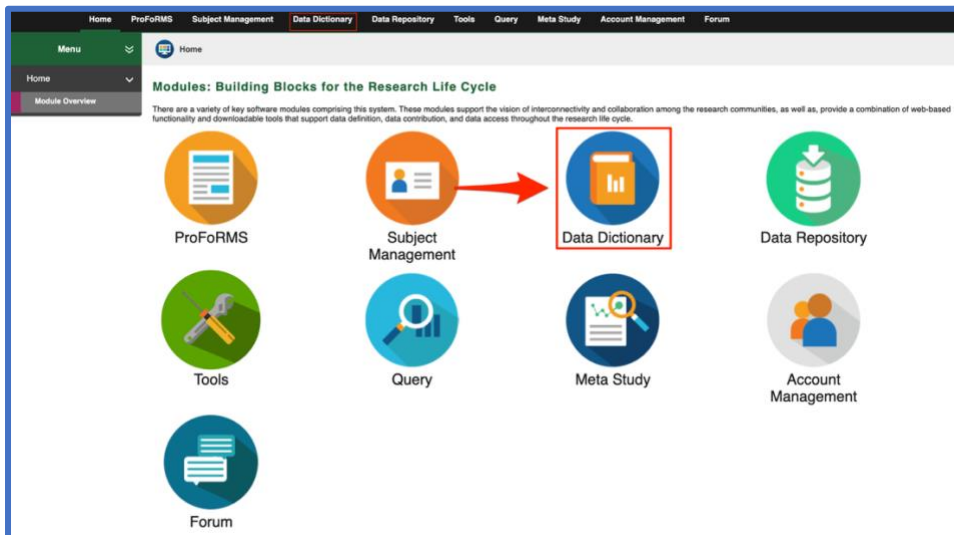

4. Users can extract the files from the zip file and upload them to their BRICS Instance. Make sure to import the Data Elements first and then import the Form Structures.
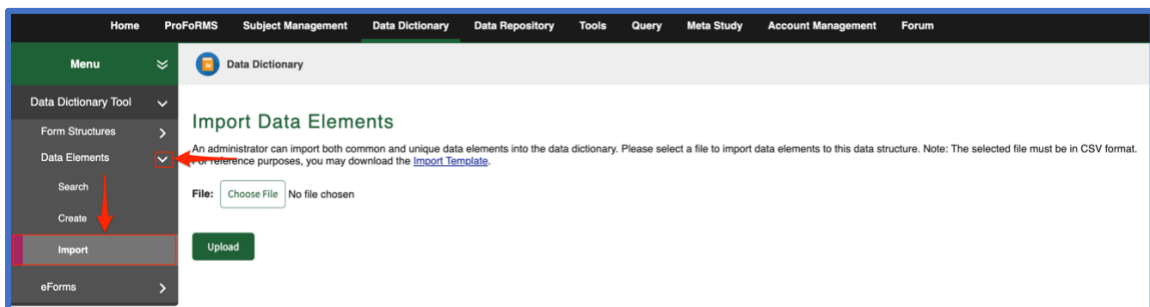
13.3 Importing Data Elements

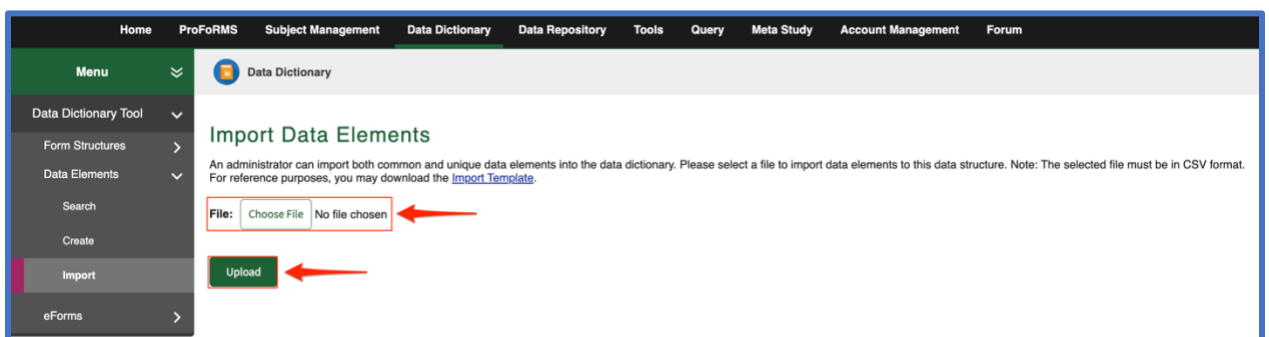To add the data to the BRICS system we need to import it. Navigate to your BRICS instance and login.
1. Open the Data Dictionary

2. In the side navigation expand **Data Elements ->** Select **Import**

3. Click **Choose File** and select the data elements file that was generated using the FHIR Tool and click **Generate**.

4. A table displays showing the data elements found in the document to be imported.
Use the **select at the top of the table to select all the data elements** or **individually select the Data Elements to import**.
NOTE: Data Elements that are marked in red already exists in the system and will not be added.

5. After selecting the desired data elements to import then click the **Import Selected Data Elements** button to start the import.

13.4 Importing Form Structures

After importing the **Data Elements,** we can now import our Form Structure generated from the **FHIR Tool**.
NOTE: Only users with Data Dictionary Administration permissions will be able to import Form Structures.

1. Navigate to Data Dictionary page and in the side-navigation expand **Data Dictionary Administration -> Form Structures ->** Select **Import**
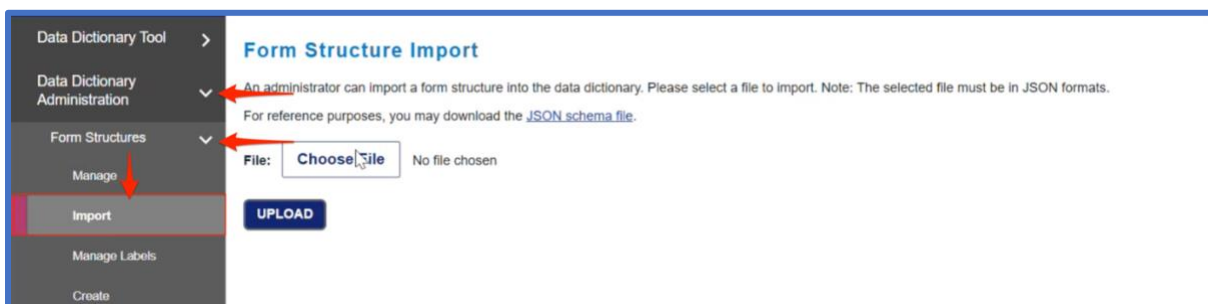
2. Click **Choose File** and select the **Form Structure** file that was generated by the **FHIR Tool**.

3. After clicking upload and the success dialog is shown, then the Form Structure has been created in **Draft** status.