This screen is where the user loads and maps medication data to be analyzed. The user loads the medication records file by clicking the **Load Medication Data** button and browsing to the desired data file.

After the data are loaded, the second step is to map the **Source Field Names** (imported records data fields) to the **Destination Field Names** (analyzer data fields). First, click on a **Source Field Name**, then click on its corresponding **Destination Field Name**, and then click the **Map** button. This moves the Source Field Name to the Destination Field Names list. Note that corresponding terms may or may not match exactly and are not always positioned directly across from one another.

A sample medication records file (Sample Medication.txt) has been provided in the **Sample Data** folder to give the user experience with the software tool prior to importing their own organization's data.

Figure S1 IBD PATH medication data mapping screen. IBD PATH, Inflammatory Bowel Disease Population Analyzer Tool for Health Systems.


This screen is where the user loads and maps medical data to be analyzed. The process is the same as the Medication Data Mapping.

Figure S2 IBD PATH medical data mapping screen. IBD PATH, Inflammatory Bowel Disease Population Analyzer Tool for Health Systems.
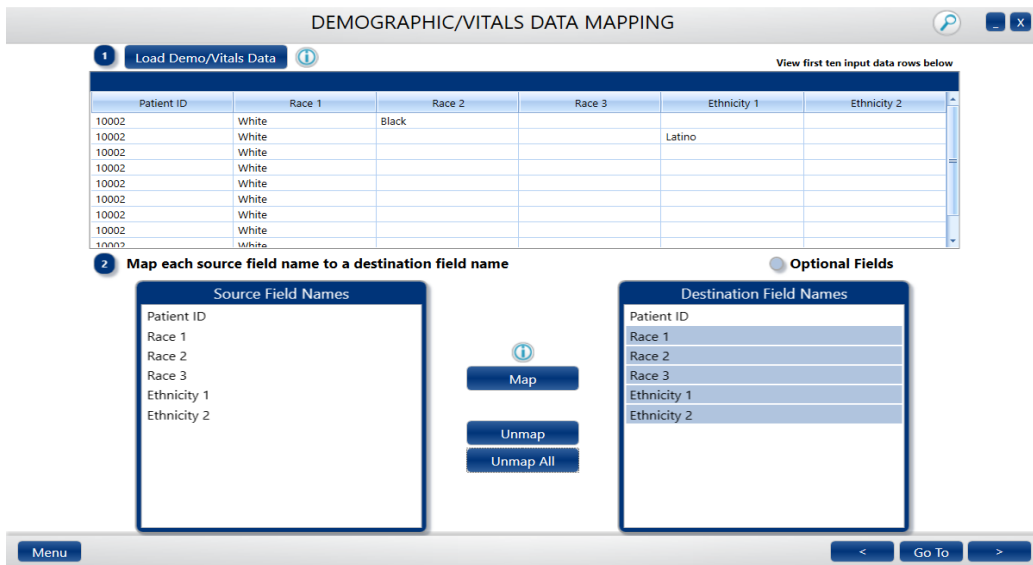
This screen is where the user loads and maps demographic and vitals data to be analyzed. The process is the same as the Medication Data Mapping.

Figure S3 IBD PATH demographic/vitals data mapping screen. IBD PATH, Inflammatory Bowel Disease Population Analyzer Tool for Health Systems.
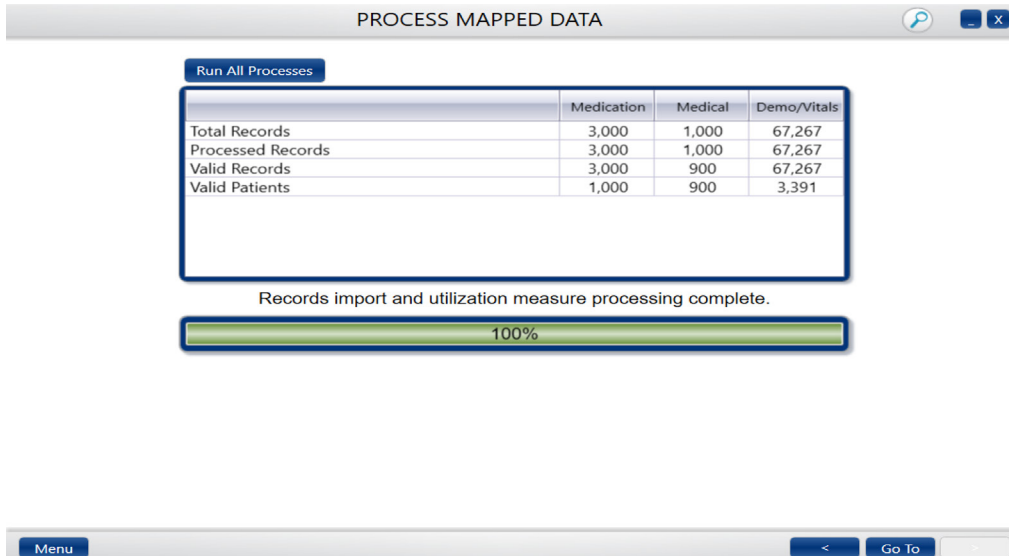
This screen tracks the progress of records processing and validation and measures processing. Once all the data is loaded and mapped, click the **Run All Processes** button and the tool will begin to process and analyze the data. When the records processing is complete, the counter will display final numbers of total records, processed records, valid records, and valid patients for medication, medical, and demographic/vital.

Figure S4 IBD PATH process mapped data. IBD PATH, Inflammatory Bowel Disease Population Analyzer Tool for Health Systems.
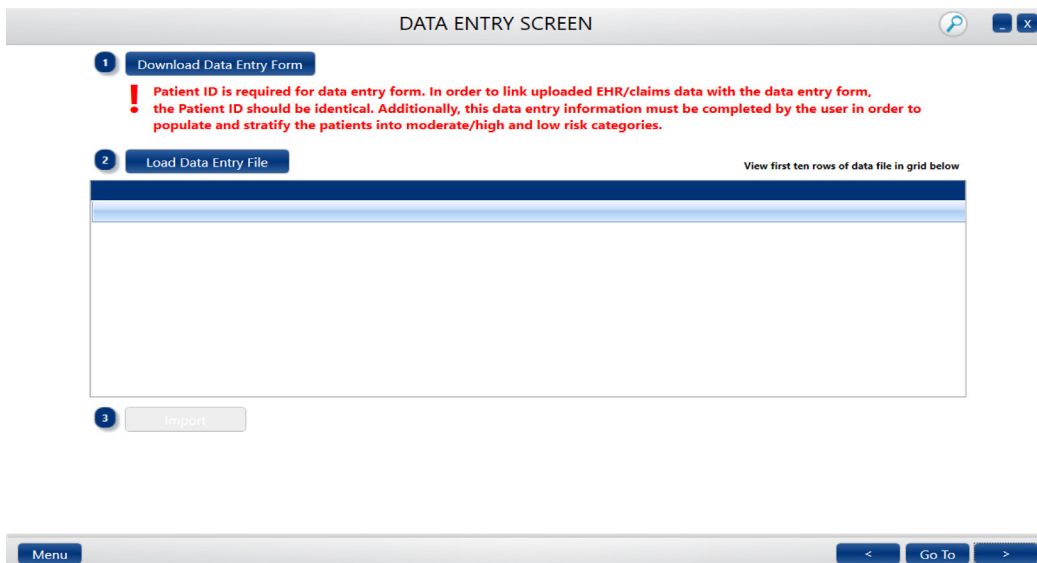
This screen allows the user to download and load data entry data to be analyzed for the IBD Module. *Note: The data entry information is required to stratify the IBD population into moderate/high and low risk categories. However, the tool will run even if all this data is not uploaded.*

Figure S5 IBD PATH data entry screen. IBD PATH, Inflammatory Bowel Disease Population Analyzer Tool for Health Systems.

To start the data entry process, download the data entry form by clicking the **Download Data Entry Form.** The data entry form will prepopulate the patient IDs from the Medical file uploaded on the Medical Data Mapping screen.

The User Defined Fields allow the user to add up to three variables in the data entry form that are not pre-defined for the risk categories. These variables will be display exactly as they are entered with no calculations performed.

Figure S6 IBD PATH data entry form. IBD PATH, Inflammatory Bowel Disease Population Analyzer Tool for Health Systems.

DATA ENTRY SCREEN

1 Download Data Entry Form

! **Patient ID is required for data entry form. In order to link uploaded EHR/claims data with the data entry form, the Patient ID should be identical. Additionally, this data entry information must be completed by the user in order to populate and stratify the patients into moderate/high and low risk categories.**

2 Load Data Entry File

View first ten rows of data file in grid below

Patient I	Age at D	Extensiv	Perianal	Severe r	Deep ul	Previous	Stricturir	Penetrat	Extensiv	Steroid-	History c	High CR	Clostridi	Cytomeg	Smoking	User Def	User Def
2089	30	No	No	No	No	No	No	No	No	No	No	No	No	No	smoker		
2091	40	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	nonsmo		
2604	34	No	No	No	No	No	No	No	No	No	No	No	No	No	nonsmo		
2626	45	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	smoker		
2628	28	No	No	No	No	No	No	No	No	No	No	No	No	No	nonsmo		
2645	26	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	nonsmo		
2668	32	No	No	No	No	No	No	No	No	No	No	No	No	No	nonsmo		
3245	42	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	nonsmo		
3341	25	No	No	No	No	No	No	No	No	No	No	No	No	No	nonsmo		
3425	30	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	nonsmo		

3 Import

Menu   <   Go To   >

When the data entry information is completed, the user would click the **Load Data Entry File** button and browse to find and select the desired file. Once the file is loaded, the data will appear in the table rows then the user can click on the Import button to finish the process.

Figure S7 IBD PATH data entry screen, loaded data. IBD PATH, Inflammatory Bowel Disease Population Analyzer Tool for Health Systems.