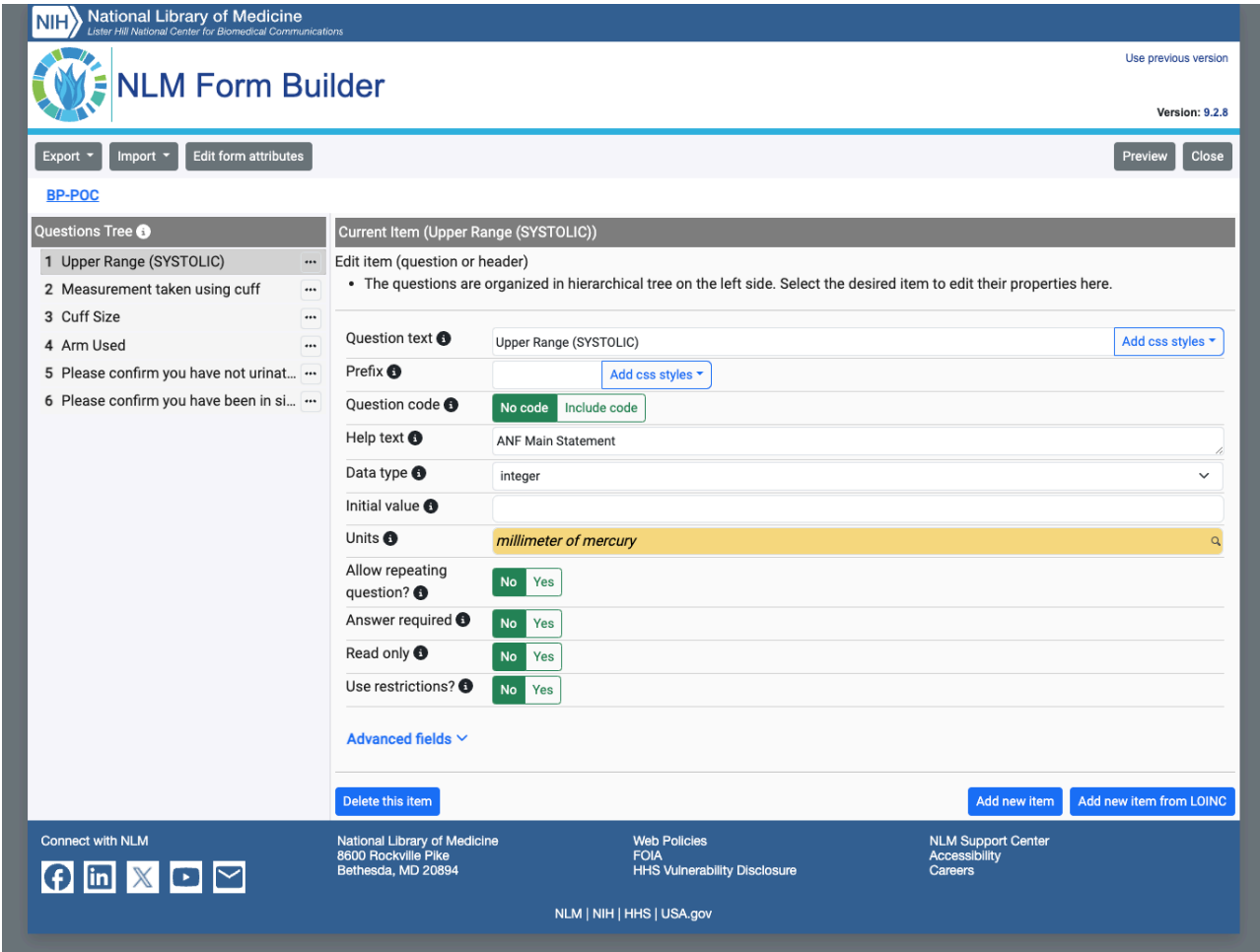
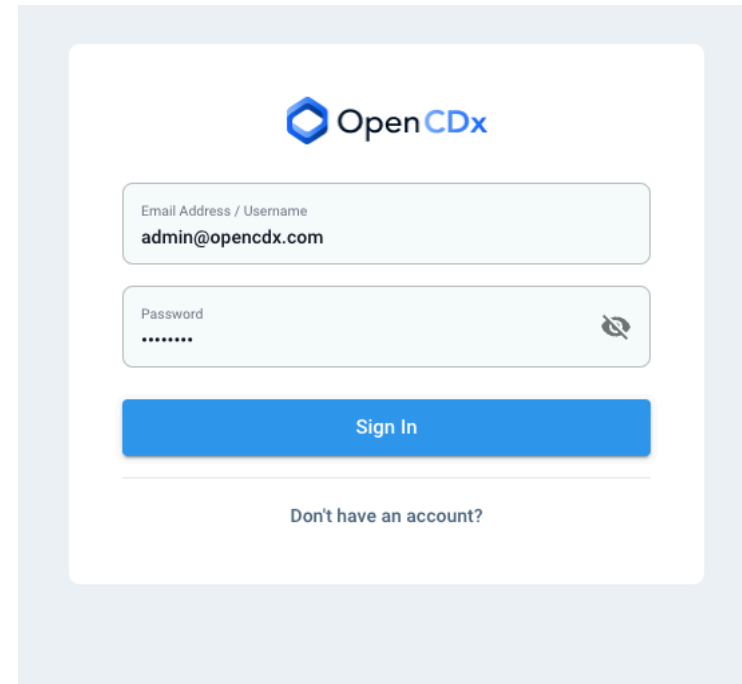


OpenCDx: User Guide for Admin creation and configuration of Forms

#	Step	Sample Screenshot
1	<p><i>For Reference, we are leveraging the NLM Form Builder for the MVP. This screenshot demonstrates the starting open-source tool that we used.</i></p> <p>In the example screenshot, an admin user has selected the systolic blood pressure use case.</p> <p>The user can use the NLM GUI to create the base set of questions for the OpenCDx form. Once the form is ready for ANF statements, the user should</p> <ol style="list-style-type: none"> 1. Click “Export” at the top-left of the screen. 2. Select “Export to file” and download the file in .json format. 	

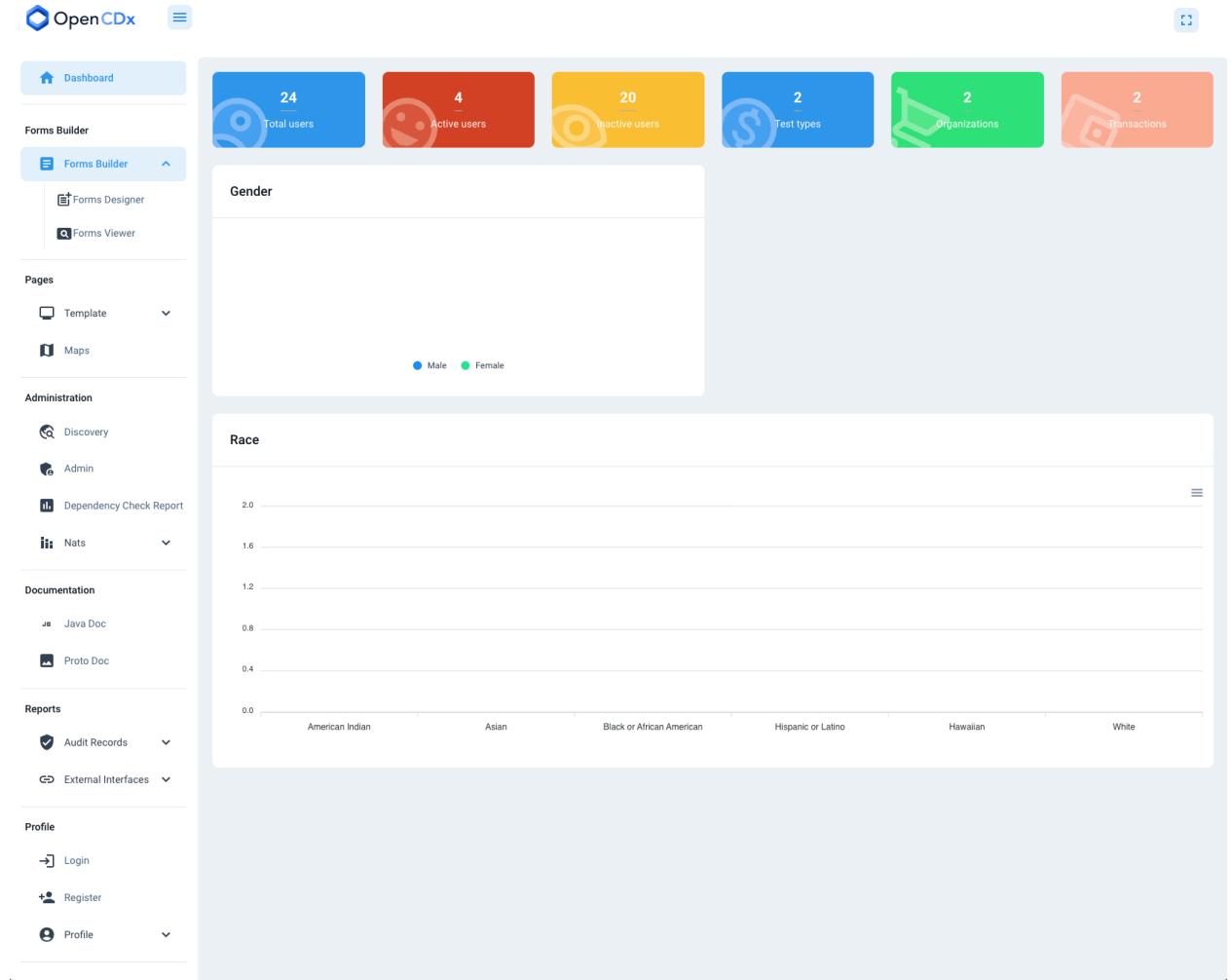
2

The next step for the **admin** user is to log in to the OpenCDx Dashboard.



The image shows a login form for OpenCDx. At the top is the OpenCDx logo. Below it are two input fields: 'Email Address / Username' with the value 'admin@opencdx.com' and 'Password' with masked characters '*****'. To the right of the password field is an eye icon. Below the fields is a blue 'Sign In' button. At the bottom is a link that says 'Don't have an account?'.

3 Once logged in to the default OpenCDx Dashboard view, the **admin** user selects the **Forms Designer** tool from the sidebar on the left of the screen under the Form Builder section.



4 Once the **admin** user is in the OpenCDx ANF Form Designer GUI, they should click the “Upload File” button in the top-left and select the previously downloaded .json file from Step #1.



The screenshot shows the OpenCDx ANF Form Designer GUI. The top-left corner has an **Upload File** button. The main area is titled **ANF Statement** and contains a checkbox labeled **Show Report**.

5

Once the OpenCDx Form Designer GUI has imported the base set of form questions, the user will be able to select each question to add additional rules. In this case, they will link each question to the specific ANF statements involved.

Upload File <

3079919224534 - Upper Range (SYSTOLIC)

7048556169730 - Measurement taken using cuff

8501933950742 - Cuff Size

1451784149570 - Arm Used

4051866307723 - Please confirm you have urinated less than 30 minutes prior to taking the measurement.

2602220218173 - Please confirm you have been in sitting position before taking the measurement for at least 5 minutes.

ANF Statement

User Form JSON

ANF Statement JSON

☐ Show Report

1. Upper Range (SYSTOLIC) - 3079919224534

2. Measurement taken using cuff - 7048556169730

3. Cuff Size - 8501933950742

4. Arm Used - 1451784149570

5. Please confirm you have urinated less than 30 minutes prior to taking the measurement. - 4051866307723

6. Please confirm you have been in sitting position before taking the measurement for at least 5 minutes. - 2602220218173

Select a rule

Save

[Upload File](#)

3079919224534 - Upper Range
(SYSTOLIC)

7048556169730 - Measurement
taken using cuff

8501933950742 - Cuff Size

1451784149570 - Arm Used

4051866307723 - Please confirm
you have not urinated more than
30 minutes prior to taking the
measurement.

2602220218173 - Please confirm
you have been in sitting position
before taking the measurement
for at least 5 minutes.

☐ Show Report

1. Upper Range (SYSTOLIC) - 3079919224534

Component ID

GGXT-XFIF-0184-OAEJL-KOII

Component Type

 Main ANF Statement

○ Associated ANF Statement

○ User Question

☐ Not Applicable

Component marked as Main ANF type

Operator

Answer

Equal

Any value

Anf Statement

Time

Subject of Record

Authors

Subject Of Information

Topic

Type

Circumstance Choice

System Variables

[Code Lookup](#)

Lower Bound

```

$((system.util.epoc("${application.statement.documented.start.time}")))}

```

Include Lower Bound

☐ Yes ☐ No ☐ Not Answered

Semantic

Seconds | $\{(\text{upperbound} - \text{lowerbound})\}$

Resolution

1 second

Upper Bound

```

$((system.util.epoc("$({application.statement.documented.end.time})"))))

```

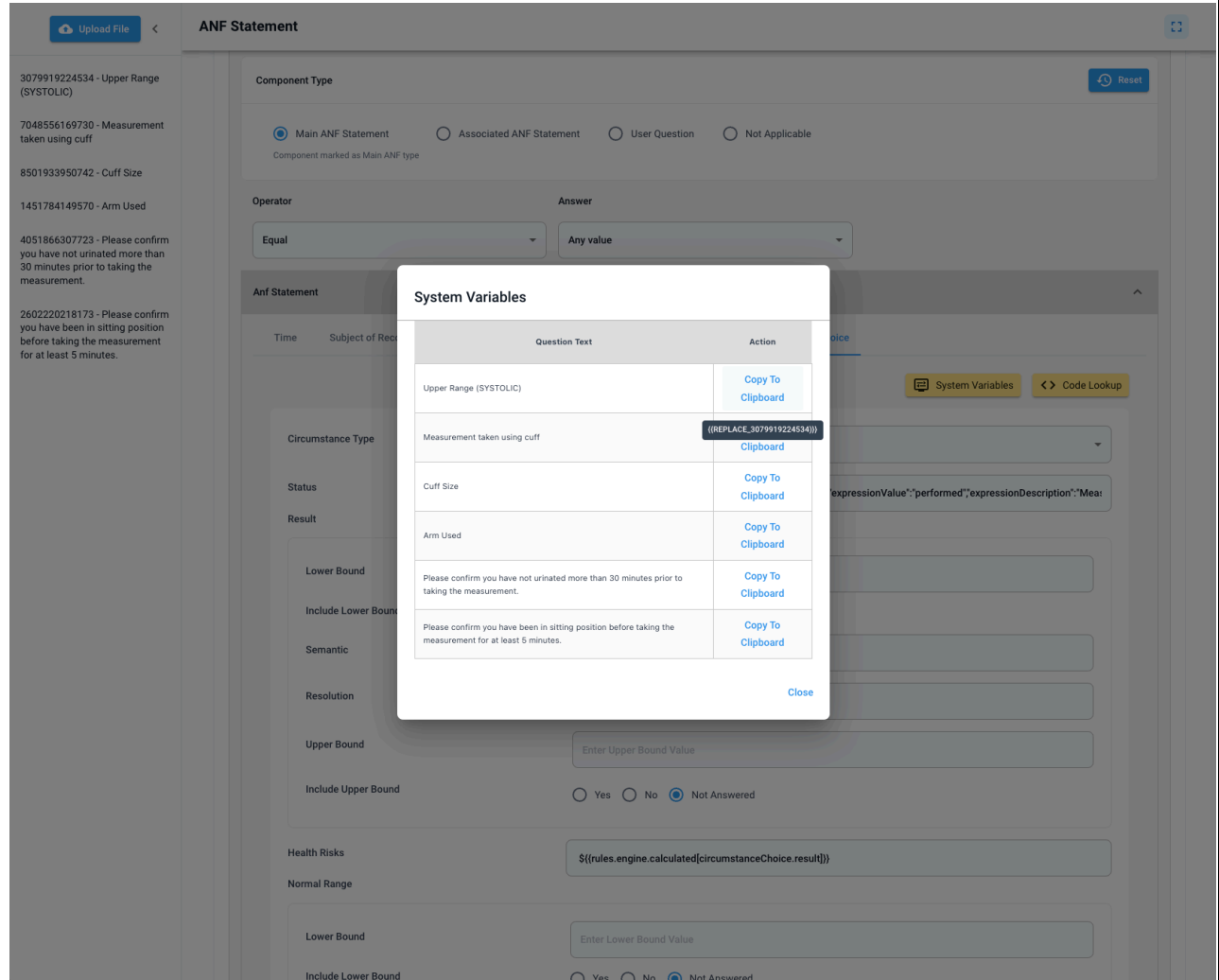
Include Upper Bound

☐ Yes ☐ No ☐ Not Answered

7

When a user is configuring ANF statements for a specific question, they can click on the yellow “System Variables” button to view a list of placeholder labels to use in the Form.

Upon Form submission, these placeholder labels are replaced by the actual observed values from a patient. For example, “Arm used” could be replaced by “Left” or “Right.”



The screenshot displays the "ANF Statement" configuration interface. On the left, a list of variables is shown, including "3079919224534 - Upper Range (SYSTOLIC)", "7048556169730 - Measurement taken using cuff", "8501933950742 - Cuff Size", "1451784149570 - Arm Used", "4051866307723 - Please confirm you have not urinated more than 30 minutes prior to taking the measurement.", and "2602220218173 - Please confirm you have been in sitting position before taking the measurement for at least 5 minutes.".

The main area shows the "ANF Statement" configuration. The "Component Type" is set to "Main ANF Statement". The "Operator" is "Equal" and the "Answer" is "Any value". The "Anf Statement" section includes fields for "Time", "Subject of Res", "Circumstance Type", "Status", "Result", "Lower Bound", "Include Lower Bound", "Semantic", "Resolution", "Upper Bound", "Include Upper Bound", "Health Risks", and "Normal Range".

A "System Variables" modal is open, displaying a table of variables:

Question Text	Action
Upper Range (SYSTOLIC)	Copy To Clipboard
Measurement taken using cuff	((REPLACE_3079919224534)) Clipboard
Cuff Size	Copy To Clipboard
Arm Used	Copy To Clipboard
Please confirm you have not urinated more than 30 minutes prior to taking the measurement.	Copy To Clipboard
Please confirm you have been in sitting position before taking the measurement for at least 5 minutes.	Copy To Clipboard

The modal also includes a "Close" button.

8

This screenshot shows a sample configuration, with placeholder labels placed in relevant fields. In this case, you can see one in the *Resolution* field.

Upload File

3079919224534 - Upper Range (SYSTOLIC)

7048556169730 - Measurement taken using cuff

8501933950742 - Cuff Size

1451784149570 - Arm Used

4051866307723 - Please confirm you have not urinated more than 30 minutes prior to taking the measurement.

2602220218173 - Please confirm you have been in sitting position before taking the measurement for at least 5 minutes.

ANF Statement

Operator

Equal

Answer

Any value

ANF Statement

Time

Subject of Record

Authors

Subject Of Information

Topic

Type

Circumstance Choice

System Variables

Code Lookup

Circumstance Type

Performance Circumstance

Status

{ "expressionType": "simple", "expressionLanguage": "local", "expressionValue": "performed", "expressionDescription": "Mea"

Result

Lower Bound

90

Include Lower Bound

☐ Yes
☐ No
☒ Not Answered

Semantic

Enter Semantic Value

Resolution

{{(REPLACE_3079919224534)}}

Upper Bound

120

Include Upper Bound

☐ Yes
☐ No
☒ Not Answered

Health Risks

{{(rules.engine.calculated[circumstanceChoice.result])}}

Normal Range

Lower Bound

Enter Lower Bound Value

Include Lower Bound

☐ Yes
☐ No
☒ Not Answered

Semantic

Enter Semantic Value

Resolution

Enter Resolution

