SHRINE Webclient Help Document

Tour of the Web Client

Introduction

The functionality described in the user guide assumes that you have received the necessary prior authorizations to access a SHRINE network at your institution. The process for this authorization varies according to your institution and network.

Most SHRINE networks use a tool called the Data Steward Application to request and approve query topics prior to use of the SHRINE Web Client. Your local administrator or network contact will provide information about this prerequisite step, if applicable.

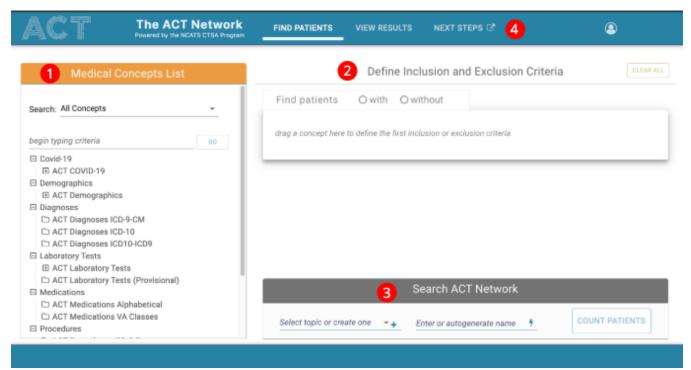
Details of shots presented in this document may vary from network to network. Each network uses a different ontology and may be uniquely configured. We have attempted to note in this document where these situations may be expected. If you have questions, please contact your local network representative.

The SHRINE Webclient Contains 2 main views:

- I. The Find Patients View
- II. View Patient Counts

I. Find Patients View

The default view the user will see upon logging in is the Find Patients view. The Find Patients view is divided into 3 modules: 1 Medical Concepts, 2 Inclusion and Exclusion Criteria, 3 Start Query. The main menu is in the upper middle 4.



1. Medical Concepts Module

The Medical Concepts panel consists of:

- a The Filter Drop Down menu.
- b The Search Field
- c The Medical Concepts Tree

Medical Concepts List Search: All Concepts begin typing criteria b GO □ Covid-19 **⊞ ACT COVID-19** □ Demographics □ Diagnoses □ ACT Diagnoses ICD-9-CM ☐ ACT Diagnoses ICD-10 □ ACT Diagnoses ICD10-ICD9 □ Laboratory Tests □ ACT Laboratory Tests (Provisional) ACT Medications Alphabetical ☐ ACT Medications VA Classes □ Procedures

a - The Filter Drop Down menu.

The Code Category Filter is used in combination with the search field to filter the concepts by category. The filter will be applied to any searches performed by typing a search term in the Search Field and hitting the go button (see part b).

	Medical Concepts List	
	All Concepts	
Search:	Covid-19	
	Demographics	
begin typ	Diagnoses (All)	
□ Covid	Diagnoses ICD-9-CM	ш
0	Diagnoses ICD-10	ш
E	Diagnoses ICD10-ICD9	ш
	Laboratory Tests (LOINC)	ш
	Medications (RxNORM)	
	Procedures (All)	
	Procedures ICD-9-Proc	
	Procedures CPT-4	
	Procedures HCPCS	
C	Procedures ICD-10-PCS	
0	Visit Details	

b - The Search Field

Medical Concepts List Search: Covid-19 begin typing criteria lung X GO lung 1,567 concepts approach lung 387 concepts lung right 384 concepts lobe lung 356 concepts left lung 324 concepts □ Severe Illness □ Medications ☐ Other Variables of Interest Prognostic Lab Tests Respiratory Therapy Management Diagnosis Diagnostic Lab Tests Total Patient Count

If the user selects a matching term and clicks the go button on the right, the filtered concept tree will appear.

Medical Concepts List

Search: Covid-19 begin typing criteria lung GO □ Covid-19 □ ACT COVID-19 ☐ Course Of Illness Cher Variables of Interest Abnormal Chest Imaging Abnormal Chest Imaging (Derived) Other nonspecific abnormal finding of lung field (R91.8) Auto-Immune Disease rheumatoid factor with rheumatoid arthritis M05.10 Rheumatoid lung disease with rheumatoid arthritis of

The user can also navigate the Concept Tree by expanding the folders to view the child concepts.

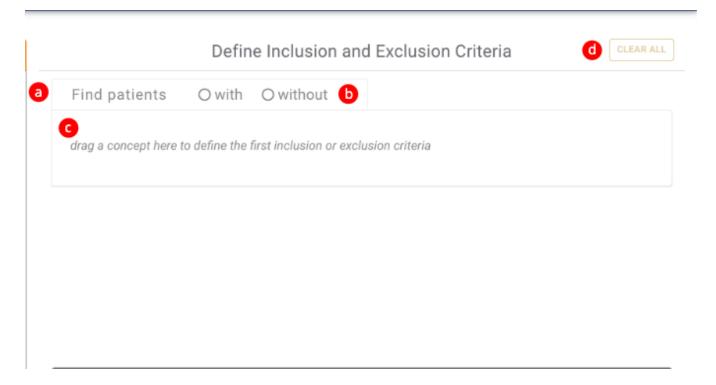
Medical Concepts List

Search: Covid-19			
bogin typing oritoria			
begin typing criteria	GO		
□ Covid-19			
☐ Demographics			
□ Diagnoses			
△ ACT Diagnoses ICD-9-CM			
o ACT_2.0.1_UMLS_2018AA			
🗀 001-999.99 Diseases And Injuries			
☐ E000-E999.9 Supplementary Classification Of			
External Causes Of Injury And Poisoning			
□ V01-V91.99 Supplementary Classification Of			
Factors Influencing Health Status And Contact			
With Health Services			
☐ ACT Diagnoses ICD-10			
☐ ACT Diagnoses ICD10-ICD9			
☐ Laboratory Tests			

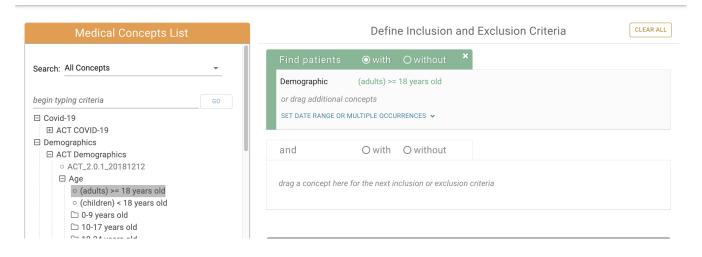
2. Inclusion and Exclusion Criteria Module

The inclusion and Exclusion Module Consists of one or more Medical Concept Group (a) consisting of:

- **b** With or Without Toggle
- c Concept Drop Area

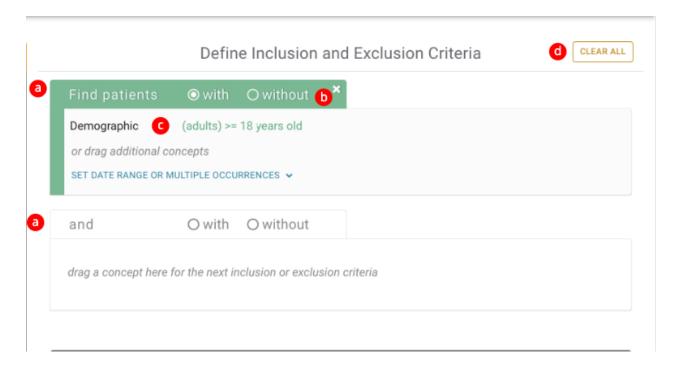


Concepts can be dragged from the medical concept list and dropped into the Concept Drop Area of a Medical Concept Group.



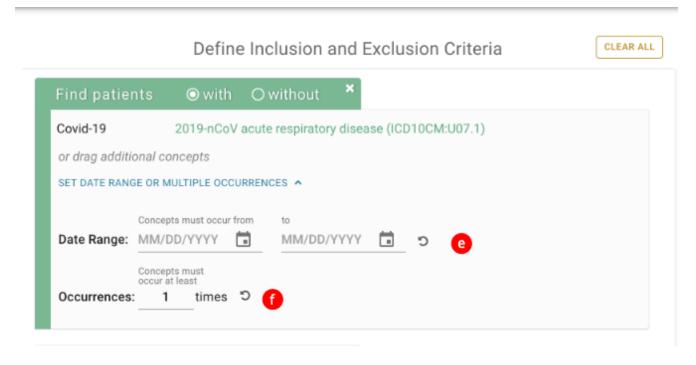
When a concept is dropped into a Medical Concept Group, some things to note are:

- a. The Medical Concept Group that the concept was dropped into becomes active.
- a. A new inactive Medical Concept Group is automatically added below the original.
- b. The With or Without Toggle is set to "with" by default but can now be toggled to "without".
- c. The new concept now appears in the Concept Drop Area and can be removed by mousing over the concept and clicking the x that appears.
- d. The entire query can be reset by clicking the Clear All button.



Setting the Date Range or Multiple Occurrences.

Using a different query containing a diagnosis of Covid-19 related Acute Respiratory Disease, we can demonstrate the ability to set the date range (e) and change the number of occurrences of the diagnosis (f). Please note that the date settings can contain either a start date or an end date or both.



3. Start Query Module

The Start Query Module Consists of:

- a The Query Topic Selection.
- **b** Query Name field.

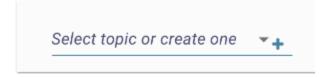
c - The Count Patients Button



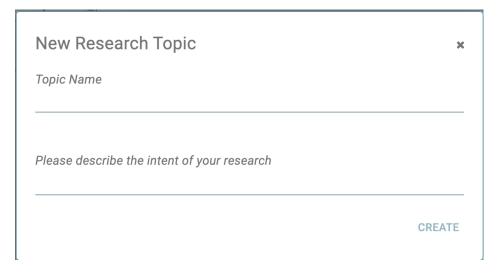
A Query Topic must be selected and a Query Name must be entered into the Query Name field before a query can be run.

a. Query Topic Selection

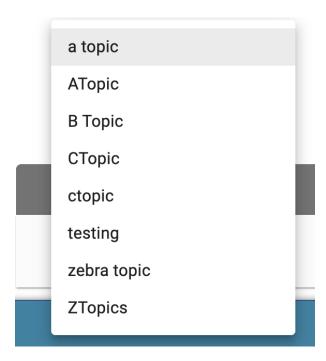
A user must select a query topic before running a query.



If no query topics exist, clicking the "+" button to the right of the Query Topic Selection will allow the user to create a topic.



After creating a topic, it will show up in the topic drop down where it can be selected.



b. Query Name Field

In addition to the Query Topic Selection, the Query Name Field is required before being able to run a query.



A user can autogenerate a query name by clicking the lightning graphic on the right:



b. Count Patients Button

When all required fields are populated on the form, the user can click the Count Patients button to start a query.

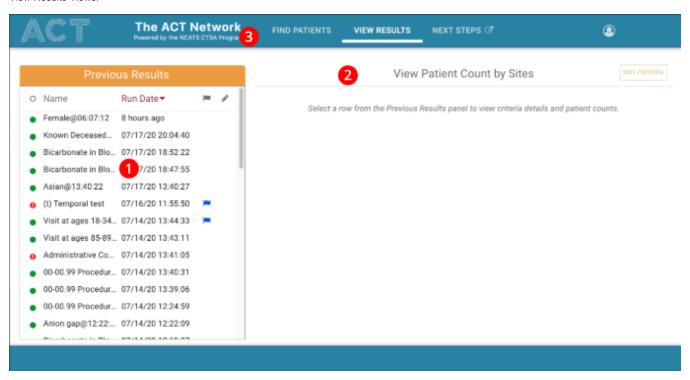


The Count Patients button will automatically disable if any required fields are missing.



II. View Patient Counts

View Results is divided into 2 modules: 1 Previous Results, 2 Patient Counts. The main menu 3 can be used to switch between the Find Patients and View Results Views.



1. Previous Results Module

The Previous Module Consists of:

- a The Previous Results Header.
- **b** Previous Results

Previous Results Name Run Date ▼ Female@11:04:37 42 minutes ago Female@10:54:38 an hour ago Asian@13:09:02 a day ago Asian@13:08:40 a day ago Female@13:08:07 a day ago Female@06:07:12 07/20/20 06:07:20 Known Deceased... 07/17/20 20:04:40 Bicarbonate in Blo... 07/17/20 18:52:22 Bicarbonate in Blo... 07/17/20 18:47:55 Asian@13:40:22 07/17/20 13:40:27 (t) Temporal test 07/16/20 11:55:50 Visit at ages 18-3... 07/14/20 13:44:33

Administrative Co... 07/14/20 13:41:05

00-00.99 Procedu... 07/14/20 13:40:31

a. The Previous Results Header

Visit at ages 85-8...

07/14/20 13:43:11

Previous Results

Run Date▼ Name Female@11:04:37 an hour ago Female@10:54:38 2 hours ago Asian@13:09:02 a day ago Asian@13:08:40 a day ago Female@13:08:07 a day ago Female@06:07:12 07/20/20 06:07:20 Known Deceased... 07/17/20 20:04:40 Bicarbonate in Blo... 07/17/20 18:52:22

In the following example the Previous Results are sorted by Run Date with the least recent results sorted at the top of the table:

Previous Results

O Name

Run Date -





Male@16:05:19

07/08/20 16:05:21

(adults) >= 18 yea... 07/08/20 16:07:30

(adults) >= 18 yea... 07/08/20 16:07:58

(adults) >= 18 yea... 07/08/20 16:08:27

(adults) >= 18 yea... 07/08/20 16:11:54

(adults) >= 18 yea... 07/08/20 16:19:23

(adults) >= 18 yea... 07/08/20 16:25:25

(adults) >= 18 yea... 07/08/20 16:26:35

(adults) >= 18 yea... 07/08/20 16:26:55

In the following example the results are sorted with flagged queries at the top of the table:

Previous Results O Name Run Date (t) Temporal test 07/16/20 11:55:50 Visit at ages 18-3... 07/14/20 13:44:33 Female@11:04:37 2 hours ago Female@10:54:38 2 hours ago Asian@13:09:02 a day ago

In the following example the results are sorted in alphabetical order:



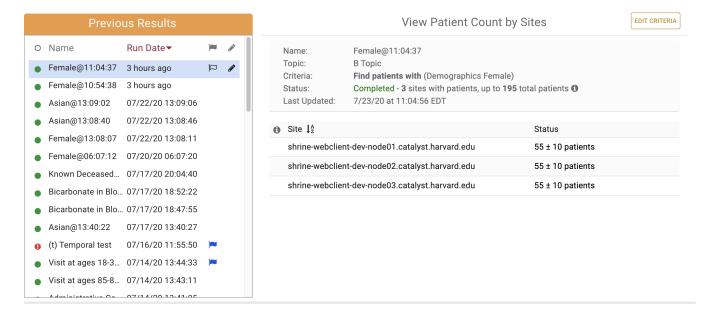
Previous Results					
0	Name▼	Run Date	 ~		
	Visit at ages 85-8	07/14/20 13:43:11			ı
•	Visit at ages 18-3	07/14/20 13:44:33			ı
•	Male@16:05:19	07/08/20 16:05:21			
•	Known Deceased	07/17/20 20:04:40			

b. Previous Results

The previous results are queries that are either currently in progress or have already completed.

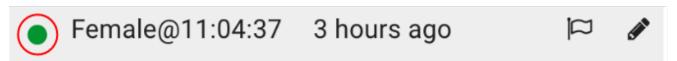
- Female@11:04:37 3 hours ago
- Female@10:54:38 3 hours ago
- Asian@13:09:02 07/22/20 13:09:06
- Asian@13:08:40 07/22/20 13:08:46
- Female@13:08:07 07/22/20 13:08:11
- Female@06:07:12 07/20/20 06:07:20
- Known Deceased... 07/17/20 20:04:40
- Bicarbonate in Blo... 07/17/20 18:52:22
- Bicarbonate in Blo... 07/17/20 18:47:55
- Asian@13:40:22 07/17/20 13:40:27
- (t) Temporal test 07/16/20 11:55:50
- Visit at ages 18-3... 07/14/20 13:44:33
- Visit at ages 85-8... 07/14/20 13:43:11

Clicking on one of the queries will retrieve its results as seen below. The right hand section titled View Patient Count By Sites will be described in more detail later on in this tutorial.



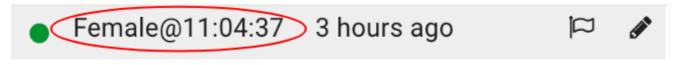
Query Status Indicator Column

The dot in the first column indicates the status of the query. Green indicates a successfully completed query and Red indicates a query that had an error retrieving results.



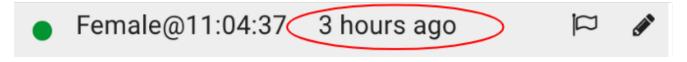
Query Name Column

The second column is the query name:



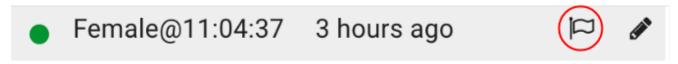
Execution Time

The third column is the time when the query was run:

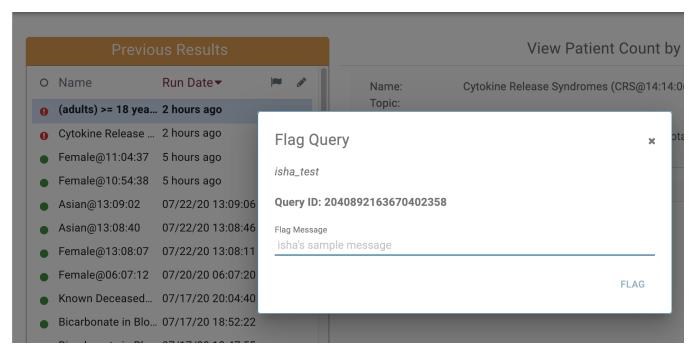


Flag Query Button

The fourth column is a button that allows the user to flag a query:



Clicking the button reveals the Flagging dialog shown below:



Filling in a flag Message and clicking the flag button will flag the query. A flagged query is indicated by a blue flag icon in the flagging column:



Female@11:04:37 5 hours ago



Conversely, the user can unflag the query by clicking the blue flag icon which will launch the unflag dialog. Clicking the unflag button will unflag the query:



Rename Query Button

The fifth column is a button that allows the user to rename a query:

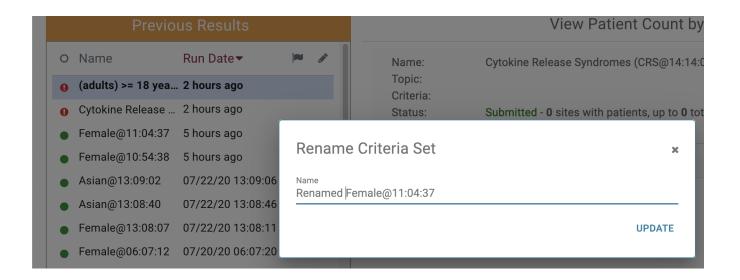


Female@11:04:37 3 hours ago





Clicking the rename query button will launch the rename dialog show below:



In this example we are changing the name of this query to "Renamed Female@11:04:37" and clicking the update button. The name is now updated in the table row:



2. Patient Counts Module

The Patient Counts Module consists of:

- a. Query Metadata
- b. Patient Counts
- c. Edit Criteria Button.

View Patient Count by Sites

C EDIT CRITERIA

Renamed Female@11:04:37

Topic: B Topic

Criteria: Find patients with (Demographics Female)

Status: Completed - 3 sites with patients, up to 195 total patients 19

Last Updated: 7/23/20 at 16:23:24 EDT

b	0	Site I ^A _Z	Status
		shrine-webclient-dev-node01.catalyst.harvard.edu	55 ± 10 patients
		shrine-webclient-dev-node02.catalyst.harvard.edu	55 ± 10 patients
		shrine-webclient-dev-node03.catalyst.harvard.edu	55 ± 10 patients

a. Query Metadata

The Query Metadata has the following information rows:

Name - the name of the query.

Topic - the topic that the query is associated with.

Criteria - the query definition

Status - the status of the query...i.e. Completed, Submitted...e.t.c.

Last Updated - a timestamp for the last time the query retrieved updated information.

Name: Female@10:54:38

Topic: B Topic

Criteria: Find patients with (Demographics Female)

Status: Completed - 3 sites with patients, up to 185 total patients 19

Last Updated: 7/23/20 at 10:54:43 EDT

b. Patient Counts

The patient counts table contains rows that display a site name and its associated patient count. In the example below we can see in first row that the site shrine-webclient-dev-node1.catalyst.harvard.edu has a count of 45 patients (plus or minus 10 patients), the site shrine-webclient-dev-node2.catalyst. harvard.edu has a count of 55 patients (plus or minus 10 patients), and the site shrine-webclient-dev-node3.catalyst.harvard.edu has a count of 55 patients (plus or minus 10 patients).

Site ↓ ^A _Z	Status
shrine-webclient-dev-node01.catalyst.harvard.edu	45 ± 10 patients
shrine-webclient-dev-node02.catalyst.harvard.edu	55 ± 10 patients
shrine-webclient-dev-node03.catalyst.harvard.edu	55 ± 10 patients

In addition we can sort the results by clicking the Site column header. In the example below, the counts are sorted by site name alphabetically:

⊕ Site ↓ ^A _Z	Status
shrine-webclient-dev-node01.catalyst.harvard.edu	45 ± 10 patients
shrine-webclient-dev-node02.catalyst.harvard.edu	55 ± 10 patients
shrine-webclient-dev-node03.catalyst.harvard.edu	55 ± 10 patients

In the example below, the counts are sorted by site name reverse-alphabetically:

③ Site ↓ ^z _A	Status
shrine-webclient-dev-node03.catalyst.harvard.edu	55 ± 10 patients
shrine-webclient-dev-node02.catalyst.harvard.edu	55 ± 10 patients
shrine-webclient-dev-node01.catalyst.harvard.edu	45 ± 10 patients

Additionally, we can sort by the status. In the example below the counts are sorted by the number of results ascending with the fewest counts at the top:

0	Site	Status 13
	shrine-webclient-dev-node01.catalyst.harvard.edu	45 ± 10 patients
	shrine-webclient-dev-node02.catalyst.harvard.edu	55 ± 10 patients
	shrine-webclient-dev-node03.catalyst.harvard.edu	55 ± 10 patients

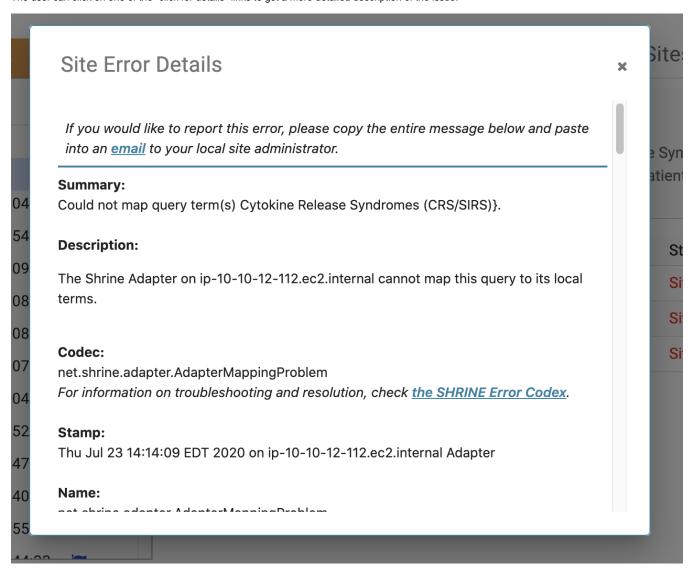
In the example below the counts are sorted by number of results descending with the largest counts at the top:

0	Site	Status 19
	shrine-webclient-dev-node01.catalyst.harvard.edu	45 ± 10 patients
	shrine-webclient-dev-node02.catalyst.harvard.edu	55 ± 10 patients
	shrine-webclient-dev-node03.catalyst.harvard.edu	55 ± 10 patients

When a query is in process or when it contains errors at one or more sites, the status column will display the status at the sites instead of patient counts. In the example below all the sites in the network are returning an error.

Site ↓ ^A _Z	Status
shrine-webclient-dev-node01.catalyst.harvard.edu	Site Error click for details
shrine-webclient-dev-node02.catalyst.harvard.edu	Site Error click for details
shrine-webclient-dev-node03.catalyst.harvard.edu	Site Error click for details

The user can click on one of the "click for details" links to get a more detailed description of the issue:



c. Edit Criteria Button

Clicking the Edit criteria will reconstruct the query and display it's definition in the find patients view.



The result of clicking the Edit Criteria button in our example is shown below. The user can now edit and re-run the query.

