SHRINE 3.3 Webclient Help

Tour of the Web Client

3.3 Release Notes

The 3.3 Release contains an additional feature of "Advanced Breakdowns"

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 Tab
- II. View Results Tab

I. The Find Patients Tab

The default view on login is the Find Patients tab (1). Researchers will build and define their patient cohort by selecting and dropping medical concepts (2) into inclusion and exclusion criteria panel (3). Once defined, they can select various options before searching the network (4).



1. Medical Concepts List

The Medical Concepts List consists of standardized medical billing domains that include diagnosis, procedures, laboratory tests, medications and demographics information and visit details. There are over 2 million concepts to select from. To help search and find the concept of choice, this panel contains features to help locate a specific code.

A researcher can type the medical concept and view corresponding search results (1), can select a filter to narrow down the domain of the search results (2), or can browse the medical concept tree by manually opening and closing folders (3). Researchers can click on the info icon next to a concept to view additional information for that concept.



1. Searching for a concept: As the user types in the search field, autosuggest terms will appear in a dropdown below. These terms are ranked by frequency of occurrence within the medical concept list. Select a term and click the "GO" button to view results below.

Autosuggest L	_ist
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Search Results with highlighted search criteria

	Medical Concepts List	
Search: C	ovid-19	•
begin typing o lung	riteria ×	GO
lung 1,5	57 concepts	
approac	h lung 387 concepts	
lung rigi	nt 384 concepts	
lobe lun	g 356 concepts	
left lung	324 concepts	
	 Developments Level of Care (Setting) Medications Other Variables of Interest Prognostic Lab Tests Respiratory Therapy Manageme Diagnosis Diagnostic Lab Tests Fotal Patient Count 	nt
	Medical Concepts List	
	Medical Concepts List	
Search: C	Medical Concepts List	*
Search: C	Medical Concepts List	•
Search: C begin typing o lung	Medical Concepts List	G 0
Search: C begin typing o lung Covid-1	Medical Concepts List	G 0
Search: C begin typing of lung Covid-1 E ACT	Medical Concepts List	G 0
Search: C begin typing of lung Covid-1 C ACT C C	Medical Concepts List covid-19 riteria 9 COVID-19 ourse Of Illness	G 0
Search: C begin typing of lung Covid-1 ACT C C	Abnormal Chest Imaging	G 0
Search: C begin typing of lung Covid-1 ACT C C	Medical Concepts List covid-19 riteria 9 COVID-19 ourse Of Illness > Other Variables of Interest > Abnormal Chest Imaging • Abnormal Chest Imaging (De	GO rived)
Search: C begin typing of lung Covid-1 ACT C C	Medical Concepts List covid-19 riteria 9 COVID-19 ourse Of Illness > Other Variables of Interest > Other Variables of Interest > Abnormal Chest Imaging • Abnormal Chest Imaging (De • Other nonspecific abnorm	GO rived) al finding
Search: C begin typing of lung Covid-1 C ACT C C	Medical Concepts List covid-19 riteria 9 COVID-19 ourse Of Illness > Other Variables of Interest > Abnormal Chest Imaging • Abnormal Chest Imaging (De • Other nonspecific abnorm of lung field (R91.8)	co rived) al finding
Search: C begin typing of lung Covid-1 ACT C C	Medical Concepts List covid-19 riteria 9 COVID-19 ourse Of Illness > Other Variables of Interest >> Other Variables of Interest >> Abnormal Chest Imaging • Abnormal Chest Imaging (De • Other nonspecific abnorm of lung field (R91.8) >> Auto-Immune Disease	GO rived) al finding
Search: C begin typing of lung Covid-1 ACT C C	Medical Concepts List covid-19 riteria 9 COVID-19 ourse Of Illness > Other Variables of Interest > Other Variables of Interest > Abnormal Chest Imaging • Abnormal Chest Imaging (De • Other nonspecific abnorm of lung field (R91.8) > Auto-Immune Disease > M05 Rheumatoid arthritis wi rheumatoid factor	GO rived) al finding th
Search: C begin typing of lung Covid-1 ACT C C	Medical Concepts List covid-19 rriteria 9 COVID-19 ourse Of Illness > Other Variables of Interest > Abnormal Chest Imaging • Abnormal Chest Imaging (De • Other nonspecific abnorm of lung field (R91.8) > Auto-Immune Disease > M05 Rheumatoid arthritis wi rheumatoid factor > M05.1 Rheumatoid lung d	GO rived) al finding th isease
Search: C begin typing of lung Covid-1 ACT C C	Medical Concepts List covid-19 riteria 9 COVID-19 ourse Of Illness > Other Variables of Interest > Abnormal Chest Imaging • Abnormal Chest Imaging (De • Other nonspecific abnorm of lung field (R91.8) > Auto-Immune Disease > M05 Rheumatoid arthritis wi rheumatoid factor > M05.1 Rheumatoid lung d with rheumatoid arthritis	GO rived) al finding th isease

2. Narrow search results with the filter menu: The "Search" field defaults to search the entire medical concepts list. A researcher can specify a specific domain or code set by selecting from the drop down list. The filter and search input field work in tandem to help researchers find the concept of choice.

Filter by code domain or specific code category



3. Browse the medical concept hierarchy. A researcher can browse the medical concept panel by expanding and collapsing the folder and drill down to locate a folder or an individual concept.

Click the concept to expand or collapse the folder.



2. Inclusion and Exclusion Criteria Panel

The Inclusion and Exclusion Criteria panel is how researchers will define their patient population. After finding medical concept(s), simply drag and terms and drop it into the first group.

The first group will default to a green inclusion panel. Toggle to "without" to specify an exclusion panel or toggle to "when" to specify an event based panel (1). Additional concepts added to this group will be related to one another by the OR operator (2). Specify a date range or occurrence (3, 4, 5). Date ranges can start, end, or occur between selected dates (4). View the code within its relational hierarchy (6). Delete an individual concept from a group (7) or delete an entire group (8). Additional groups will automatically appear below, connecting each group by the AND relational operator (9). Clear out the entire panel with "Clear All" button (10).

Define Inclusion and Exclusion Criteria	
Find patients (with (without (when (* 8))) Diagnosis E00-E89 Endocrine, Nutritional And Metabolic Diseases (E00-E89) (* 7) or drag additional concepts SET DATE RANGE OR MULTIPLE OCCURRENCES (* 3) Date Range: MM/DD/YYY) (* (* 4)) Concepts must occur from to Date Range: MM/DD/YYY) (* (* 4)) Concepts must occur at least Occurrences: 1 times (* 5)	
and O with O without O when	
drag a concept here for the next inclusion or exclusion criteria	

Click the info icon next to a concept to view its relational hierarchy



See examples of patient cohorts at the end of this document.

3. Event Based Panel

The event based panel allows researchers to construct a patient cohort with a sequence of events, where event A occurs before event B. To specify an event based panel, toggle to select the "when" radio button (1). The event panel contains 2 and only 2 events (2, 3). Each event must contain at least 1 concept. A researcher can specify the time gap between the two events (4, 5). An event based panel contains a clock icon to signify that it is a sequence based panel (6).

Define Inclusion and Exclusion Criteria		
Find patients O with O without O when)	
Event 1	(2)	$(6)^{\odot}$
drag a concept here to define the first event in the sequence 4		\bigcirc
the first occurrence of Even 1 occurs before the first occurrence	nce of Event 2	
Event 2		$(6)^{\circ}$
drag a concept here to define the second event in the sequence	(3)	\bigcirc

See examples of event based patient cohorts at the end of this document.

4. Search Network Panel

After defining the inclusion and exclusion panel, select or create a new research topic (1), enter or autogenerate a name for this patient cohort (2), elect to include demographic distributions (3), and click "Count Patients" to view results (4).

	Search SHF	RINE Network	
Select a topic • +	Enter name	Include demographic distributions advanced options	COUNT PATIENTS

1. Research Topic: A research topic must be selected, or opt to create a new one. Select a previously created topic, or click the "+" icon to create a new one. After creating a topic, it will show up in the topic drop down where it can be selected.

Select a previously created topic



New Research Topic window. Include the topic name (1), description (2), and click "Create" (3). Click the "x" icon to exit the window (4).

New Research Topic	(4)×
Topic Name	
Please describe the intent of your research 2	

2. Name Field: In addition to the Research Topic, the Name Field is required before searching the network. A researcher can enter a name, or click the thunderbolt icon to have a name autogenerate.

Enter name	5
	Autogenerate name

3. Data Distributions: Selecting this checkbox will include a graphical display of the patient cohort by dimensions of age, race, sex, and vital status. Click "advanced options" for additional data. The graphs and csv file will be visible on the View Results tab.

Demographic		
Demographic Distribution by Race		
Demographic Distribution by Vital Status		
Demographic Distribution by Sex		
Age 0-9 years old patient		
Demographic Distribution by Age		
Labs		
Top 5 Labs		
Procedure		
Top 20 Procedures		
Medication		
Top 5 Medications		
Top 10 NDC Medications		
_		
	ок	CANCEL

A checkmark will appear to indicate options are selected.

Select a topic	• +	Enter name	4	Include demographic distributions advanced options ✓	COUNT PATIENT

4. Count Patient button. When all required fields are complete, and errors are cleared out, the Count patient button will become enabled.

COUNT PATIENTS	COUNT PATIENTS

II. View Results Tab

The View Results tab (1) is divided into 2 main panels - The Previous Results panel (2), and the View Patient Counts by Sites (3). The Edit Criteria button seamlessly reloads the entire criteria set back into the Find Patients tab (4).

ACT	The ACT Network Powered by the NCATS CTSA Program	FIND PATIENTS 1 VIEW RESULTS	NEXT STEPS 🗗	٩
Previous F	Results	\bigcirc	View Patient Count by Sites	
 Name Type 1 unspecified cohort Type II DM cohort Unspecified Diabetes Type 1 Diabetes unidentified cohort a Diabetes female cohort adult female diabetes cohort adult Diabetes male cohort adult Diabetes male cohort adult Diabetes broad cohort ACT Diagnoses ICD-10@16:5 adult DM 1 endocrine disorder Aug 1 count endocrine disorder Aug 1 count endocrine disorder July 2 count endocrine disorder July 2 count endocrine disorder July count adult Tuly and count pediatric endocrine disorder Endocrine disorder Act Discorder July count 	Run Date V V V	3 Select a row from	n the Previous Results panel to view criteria details and patient counts.	

1. Previous Results panel

Allows researcher to view the results of patient cohort criteria that are currently in progress or have already completed. Each row contains a status indicator (1), name, date/time stamp (2), and the ability to flag a query (3), or edit the name (4). Default sorted by recent run date (2).

			\bigcirc	
	Previous I	Results	(3)	
-2	Name (Z)	Run Date▼		
1•	Type 1 unspecified cohort	5 minutes ago	(λ
l I o	ype II DM cohort	5 minutes ago		47
\bigvee	Unspecified Diabetes Type 1	5 minutes ago		\checkmark
•	Diabetes unidentified cohort a	5 minutes ago		
•	Diabetes female cohort adult	5 minutes ago		
•	female diabetes cohort adult	6 minutes ago		
•	Diabetes male cohort adult	6 minutes ago		
•	Diabetes broad cohort	6 minutes ago		
•	ACT Diagnoses ICD-10@16:5	6 minutes ago		
•	adult DM 1	6 minutes ago		
•	endocrine disorder Aug 1 count	6 minutes ago		
•	endocrine disorder July 4 count	6 minutes ago		
•	endocrine disorder July 3 count	6 minutes ago		
•	endocrine disorder July 2 count	6 minutes ago		
•	endocrine disorder July count	6 minutes ago		
•	endocrine disorder June count	6 minutes ago		
•	pediatric endocrine disorder	6 minutes ago		
•	Endocrine disorder	6 minutes ago		
•	18-34 years old-E11 Type 2 D	7 minutes ago		
L ^	AOT D: 10D10	10		

1. Status Indicator. The dot provides an update on the query.

- A green half filled circle indicates a query that is in progress.
- A green filled circle indicates a successfully completed query
- · A red filled circle indicates a query that had an error retrieving results
- 2. The default sort is by recent run date. The previous results panel can also be sorted by status and name.
- 3. Flag a row to begin the process of obtaining medical
- 4. Click the pencil icon to edit the name.

3. View Patient Counts by Sites

Select a row from Previous Results to load the results in the View Patient Count by Sites panel. Information about the inclusion and exclusion criteria is displayed (1) including a readout of the criteria. A researcher can download a CSV file of the sites and corresponding counts (2). Demographics Distributions, if selected, are collapsed by default (3). Counts are default sorted in alphabetical order (4, 5), and can be sorted by site name (4) or status (5).

ACT	The ACT Network Powered by the NCATS CTSA Program	FIND PATIENTS	VIEW RESULTS NEXT STEPS	٢
Previous Re	esults		View Patient Count by Sit	es Edit crit
 Type 1 unspecified cohort Type II DM cohort Unspecified Diabetes Type 1 Diabetes unidentified cohort adult 	2 hours ago P 2 hours ago Image: second sec	Name: opic: oriteria: Status: Last Updated:	18-34 years old-E11 Type 2 Diab@16:55:58 Endocrine disorders Find patients with (Demographics 18-34 years old) or (Demogra In Progress - 30 sites with patients, up to 276,955 total patients 9/23/21 at 16:56:03 EDT	phics 35-44 years old)
 Diabetes female cohort adult female diabetes cohort adult Diabetes male cohort adult Diabetes broad cohort 	2 hours ago 2 hours ago 2 hours ago 2 hours ago	DEMOGRAPHIC DI		Statue
 ACT Diagnoses ICD-10@16:57:08 adult DM 1 endocrine disorder Aug 1 count 	2 hours ago 2 hours ago 2 hours ago	Site A Site B Site C		Site Error <u>click for details</u> Site Error <u>click for details</u> 10 patients or fewer
 endocrine disorder July 4 count endocrine disorder July 3 count endocrine disorder July 2 count endocrine disorder July 2 count 	2 hours ago 2 hours ago 2 hours ago 2 hours ago	Site D Site E Site F		905 ± 10 patients 880 ± 10 patients 3,700 ± 10 patients
 endocrine disorder June count pediatric endocrine disorder Endocrine disorder 	2 hours ago 2 hours ago 2 hours ago	Site G Site H Site I		Sent to Site 12,530 ± 10 patients 10,035 ± 10 patients
18-34 years old-E11 Type 2 Diab ACT Discresses (CD10	2 hours ago	Site J	· ····	Sent to Site

The Demographic Distributions section (1) are a set of 4 graphs that display the patient cohort by dimensions of age, race, sex, and vital status (2). A researcher can download the full set of results per site in a CSV format (3).

ACT	The ACT Network Powered by the NCATS CTSA Program	FIND PATIENTS	VIEW RESULTS NEXT STEPS 2	9
Previous Results			View Patient Count by Sites	EDIT CRI
 Type 1 unspecified cohort Type II DM cohort Unspecified Diabetes Type 1 Diabetes unidentified cohort adult 	2 hours ago 2 hours ago 2 hours ago 2 hours ago	Name: Topic: Criteria: Status: Last Updated:	18-34 years old-E11 Type 2 Diab@16:55:58 Endocrine disorders Find patients with (Demographics 18-34 years old) or (Demographics 35-44 years old) In Progress - 30 sites with patients, up to 276,955 total patients 9/23/21 at 16:56:03 EDT	4
Diabetes female cohort adult female diabetes cohort adult Diabetes male cohort adult Diabetes male cohort adult Diabetes broad cohort ACT Diagnoses ICD-10@16:57:08	2 hours ago 2 hours ago 2 hours ago 2 hours ago 2 hours ago		C Demographic Distribution by Age	3
 adult DM 1 endocrine disorder Aug 1 count 	2 hours ago 2 hours ago	0-9 years old		
 endocrine disorder July 4 count endocrine disorder July 3 count endocrine disorder July 2 count 	2 hours ago 2 hours ago 2 hours ago	10-17 years old 18-34 years old		
 endocrine disorder July count endocrine disorder June count pediatric endocrine disorder 	2 hours ago 2 hours ago 2 hours ago	35-44 years old		
 Endocrine disorder 18-34 years old-E11 Type 2 Diab 	2 hours ago 2 hours ago	45-54 years old		

3.3 Webclient Notes

3.3 Release Notes

The 3.3 Release contains an additional feature of "Advanced Breakdowns"

The SHRINE Network Powered by the NCATS CTSA Program	FIND PATIENTS VIEW RESULTS NEXT STEPS C (1)
Medical Concepts List	Define Inclusion and Exclusion Criteria
Search: All Concepts	Find patients O with O without O when
begin typing criteria 60	drag a concept here to define the first inclusion or exclusion criteria
C ACT Diagnoses ICD-9-CM ❶ C ACT Diagnoses ICD-10 ❶	
A00-B99 Certain Infectious And Parasitic Diseases ● C00-D49 Neoplasms (C00-D49) ● DED D00 Diseases Of The Bland And Bland Forming	
Organs And Certain Disorders Involving The Immune Mechanism 1	
Diagnosis ICD10\Diseases of the etabolic bloommune mechanism\	Search SHRINE Network
GOU-G99 Diseases Of The Nervous System ① HOU-H59 Diseases Of The Eye And Adnexa ①	Create a topic + Enter name + Include demographic COUNT PATIENTS

