



LEAF USER GUIDE

Version 1.3





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1. LEAF INTRODUCTION

Leaf is a powerful self-service tool which provides UChicago investigators a user-friendly interface for querying deidentified electronic health record (EHR) data sourced from the UChicago Medicine (UCM) patient population. Leaf interacts directly with a regularly refreshed subset of data, derived from the EHR and encoded in the OMOP Common Data Model (CDM), and gives users the ability to build and explore cohorts in real time. Simple drag-and-drop functionality lets users quickly build an ad hoc query of the EHR and execute the query and provide a breakdown of the cohort it discovered. The data in Leaf (including demographics, encounters, procedures, diagnoses, labs, medications) can help investigators answer a variety of preparatory-to-research questions about the patient population. The primary use case for Leaf is cohort discovery. For example, Leaf is a useful tool to help an investigator determine if there are enough patients within the hospital system who have a given set of conditions matching the recruitment criteria for a trial. It can also help with planning and designing an existing study or submitting a grant proposal.

Please note, Leaf includes patient data from 1/1/2012 to the present date.

2. ACCESSING LEAF

Leaf is only available to UChicago affiliates with valid **BSD** account credentials at this time. Phases 2 and 3 will include expansion of this user group (Pritzker and UCM affiliates).

The website to access Leaf is: https://bsdleaf.cri.uchicago.edu/

After logging into Leaf, users will need to agree to the usage terms shown below:



3. LEAF QUERIES

After logging in, a query building canvas is displayed. There is a list of concepts along the left-hand side of the screen where users have the ability to search for concepts by keyword, drill into concepts in a hierarchical tree structure, and then drag those concepts to the groups on the right-hand side of the screen, building a query to obtain the cohort counts.

📈 leaf		New Query O patients	+ New Query	🛢 Databases ৵ 🛛 🐣 jacevedo2 ✔
Q Find Patients	All Concepts Search		Q Run Query	
🛱 Мар	Demographics Optimizes	Limit to -		
ili Visualize	O Encounter Types O Labs	Patients Who ← Anytime ← At Least 1x ←	And - Anytime - At Least 1x -	And - Anytime - At Least 1x -
🚢 Patient List	 Medications Procedures My Saved Cohorts 			

4. CONCEPT TREES

Shown below are the current first level concepts of the concept hierarchy. Further concept levels are available by drilling into each level by clicking on the > arrow to the left of the concept level.

📈 leaf		New Query O patients	+	New Query 🗧 Databases 🗸 🔌 jacevedo2 🗸
Q Find Patients	All Concepts - Search		Q Run Query	
🛱 Мар	Demographics O Age at Encounter	Limit to -		
<mark>,∥</mark> Visualize	> _ Ethnicity > _ Gender	Patients Who - Anytime - At Least 1x -	And - Anytime -	And - Anytime - At Least 1x -
Patient List	A Race A Vital Status O Zip Codes (By State)			
	 ○ Diagnoses > ○ ICD10 > ○ ICD9 			
	 © Encounter Types © ED 			
	Inpatient N/A Outpatient			
	O Labs O Loinc O Names - Alphabetical			
	 O Medications O Classes 			
	O Names - Alphabetical O Procedures O CPT			
Need Help?				

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5. SEARCHING CONCEPTS

The search box (shown below) can be used to search for specific terms in the concept hierarchy. Here is an example of searching for the term **diabetes**. The search box shows all the possible concept entries that match the searched term.

📈 leaf		New Query O patients	🕇 New Query 😂 Databases 🗸 🐣 jacevedo2 🗸
Q Find Patients	All Concepts diabetes	×	Q Run Query
创 Map 山 Visualize	 Jemogra diabetes 249.61 diabetes secondary diabetes mellitus O Encounte diabetes with Labs diabetes neurological 	2 concepts 20+ concepts 20+ concepts 20+ concepts 20+ concepts 20+ concepts 20+ concepts Anytime ▼ 8 concepts At Least 1x ▼	And - And - Anytime - Anytime - At Least 1x - At Least 1x -
Patient List	O Medications O Procedures L My Saved Cohorts		

And selecting the entry **diabetes 249.61** will display the diagnosis concept tree hierarchy for that term:

<i> I</i> eaf		New Query O patients		+ New Query
Q Find Patients	All Concepts + diabetes 249.61 ×		Q Run Query	
Ф Мар	O Diagnoses O Diagnoses O Diagnoses	Limit to 🕶		
u Visualize ▲ Patient List	▼ (001.0-999.9) DISEASES AND INJURIES ▼ (240.0-279.9) ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES, AND IMM INFL Learn More DISORDERS ▼ (249.00-259.9) DISEASES OF OTHER ENDOCRINE GLANDS ▼ (249.00-249.91) Secondary diabetes mellitus ▼ (249.60-249.61) Secondary diabetes mellitus with neurological manifestations (249.61) Secondary diabetes mellitus with neurological manifestations, uncontrolled	Patients Who + Anytime + At Least 1x +	And + Anytime + At Least 1x +	And + Anytime + At Least 1x +

NOTE: Search terms can appear in several branches of the concept hierarchy tree. For example, searching the term **atorvastatin** will produce results on both the **Labs** branch and **Medications** branch. Keep this in mind when viewing the search results:

🔎 leaf			New Query O patients		+ New Query	🛢 Databases 🗸 🐣 jacevedož	2~
Q Find Patients	All Concepts - atorvastatin	×		Run Quer	у		
印 Map	 O Labs O Medications 	Limit to -					
🕕 Visualize			Patients Who ← Anytime ← At Least 1x ←	And - Anytime - At Least 1x -	i i i i	nd ~ nytime ~ it Least 1x ~	
🌲 Patient List							

6. CREATING QUERIES

In this example, we expanded the **Demographics > Age at Encounter**, clicked on the term **Pediatric**, and dragged it over to the right-hand side first group box. Likewise, we expanded **> Race**, clicked on **Black/African American**, and dragged it over to the second group box:



Next, we searched **leukemia**, while maintaining our **Age** and **Race** selections. We selected **Lymphoid Leukemia** from the **Diagnosis** branch, and dragged it over to the right-hand side third group box:

🔎 leaf			New Query O patients	+ New	Query 🛢 Databases 🗸 🔺 jacevedo2 🗸
Q Find Patients	All Concepts - leukemia	×		Q Run Query	
Ф Мар	 O Diagnoses O ICD9 	^	Limit to +		
II Visualize	 (001.0-999.9) DISEASES AND INJURIES (140.0-239.9) NEOPLASMS 		Patients Who + Anytime + At Least 1x +	And - Anytime - At Least 1x -	And - Anytime - At Least 1x -
🛓 Patient List	 Q (200.00-208.92) MALIGNANT NEOPLASM OF LYMPHATIC AND HEMATOPOIETIC TISSUE 		Pediatric	Black/African-American	(204.00-204.92) Lymphoid leukemia
	 © (204.00-204.92) Lymphoid leukemia © (204.10-204.12) Lymphoid leukemia, chronic © (204.12) Chronic lymphoid leukemia, in relapse © (204.20-204.22) Lymphoid leukemia, subacute © (204.22) Subacute lymphoid leukemia, in relapse © (204.80-204.82) Other kmohoid leukemia 		In the Same Encounter	In the Same Encounter	In the Same Encounter
	 (204.81) Other lymphoid leukemia, in remission (204.90-204.92) Unspecified lymphoid leukemia (204.91) Unspecified lymphoid leukemia, in remission (205.00-205.92) Myeloid leukemia (205.10-205.12) Myeloid leukemia, chronic (205.11) Chronic myeloid leukemia, in remission (205.21) Myeloid leukemia, in remission 				
S Need Help?	(205.201.22) Wyerow reusering, subacute (205.21) Subacute myeloid leukemia,in remission (205.22) Subacute myeloid leukemia, in relapse	•			

Additional concept tree terms can be added to each of the group boxes depending on your search needs. Please note, terms follow AND or AND NOT across the group boxes, and within the boxes, the operator is an OR.

Additional filters are available for each group box. For example, we could limit when the diagnosis occurred:

📈 leaf			New Query O patients		+ New Query	🛢 Databases 🗸	A jacevedo2∨
Q Find Patients	All Concepts - leukemia	×		Run Query			
🛱 Мар	 ○ Diagnoses ○ D(D9) 	^	Limit to 🗸				
II Visualize	 (001.0-999.9) DISEASES AND INJURIES 		Patients Who + Anytime + At Least 1x +	And - Anytime - At Least 1x -	A	nd 🗸 nytime 🗸	ר
≗ Patient List	 (0) (200.00-208.92) MALIGNANT NEOPLASM OF LYMPHATIC AND HEMATOPOIETIC TISSUE 		Pediatric	Black/African-American		Anytime Custom Date Range	dukemia
	 G (204.00-204.92) Lymphoid leukemia G (204.10-204.12) Lymphoid leukemia, chronic G (204.12) Chronic lymphoid leukemia, in relapse G (204.20-204.22) Lymphoid leukemia, subacute (204.23) Etheauta lumphoid leukemia, subacute 		In the Same Encounter	In the Same Encounter		In Past 24 Hours In Past 48 Hours In Past 72 Hours In Past 7 Days	
	 © (204.80) Obbecket (yrighted itelation, in recipies © (204.80-204.82) Other lymphoid leukemia © (204.81) Other lymphoid leukemia, in remission © (204.90-204.92) Unspecified lymphoid leukemia © (204.90-204.92) Unspecified lymphoid leukemia 					In Past 30 Days In Past 6 Months In Past 12 Months In Past 2 Years In Past 3 Years	
	 C (204-1) Unspecified lymphold reukemia, in remission C (205.00-205.92) Myeloid leukemia C (205.11) Chronic myeloid leukemia, in remission C (205.20-205.22) Myeloid leukemia, subacute 					In Next 10 Days In Next 30 Days In Next 6 Months	J
Need Help?	 (205.21) Subacute myeloid leukemia in remission (205.22) Subacute myeloid leukemia in relapse 	•					

Additional filters are available in this section. For example, we could limit out search to living patients:

<i> I</i> eaf		New Query O patients		+ New	Query 🛢 Databases 🗸 🔺 jacevedo2 🗸	
Find Patients	All Concepts - leukemia	×		Q Run Query		
Ф Мар	O DiagnosesO ICD9	Limit to -				
∎¶ Visualize	 O (001.0-999.9) DISEASES AND INJURIES O (140.0-239.9) NEOPLASMS 	The options below allow you to add criteria dragging additional Concepts over. These an and are completely option	to your query without e just for convenience, nal.	And ← Anytime ← At Least 1x ←	And - In Past 3 Years - At Least 1x -	
Patient List	 ⊙ (200.00-208.92) MALIGNANT NEOPLASM OF LYM H HEMATOPOIETIC TISSUE ○ (204.00-204.92) Lymphoid leukemia 	Living Patients Living Patients	QIII	Black/African-American	(204.00-204.92) Lymphoid leukemia	
	 (204.10-204.12) Lymphoid leukemia, chronic (204.12) Chronic lymphoid leukemia, in rel pt (204.20-204.22) Lymphoid leukemia, subacut (204.22) Subacute lymphoid leukemia, in relapt 	Secondary diabetes mellitus Secondary diabetes mellitus	000	In the Same Encounter	In the Same Encounter	
 (204.80-204.82) Other lymphoid leukemia (204.81) Other lymphoid leukemia, in remission (204.92) Unspecified lymphoid leukemia 						
	 (205.00-205.92) Myeloid leukemia (205.10-205.12) Myeloid leukemia, chronic (205.11) Chronic myeloid leukemia, in remissik (205.20-205.22) Myeloid leukemia, subacute 	on				
O Need Help?	 (205.21) Subacute myeloid leukemia,in remiss (205.22) Subacute myeloid leukemia, in relaps 	sion se 👻				

7. RUNNING QUERIES

Now that we have built our query, we are ready to run the query and view the search results. Click **Run Query**:

🔎 leaf			New Query O patients	+ Nev	r Query 🗧 Databases 🗸 🐣 jacevedo2 🗸
Q Find Patients	All Concepts - leukemia	×		Q Run Query	
🗊 Мар	 O Diagnoses O ICD9 	^	Limit to +		
H Visualize	 © (001.0-999.9) DISEASES AND INJURIES © (140.0-239.9) NEOPLASMS 	l	Patients Who - Anytime - At Least 1x -	And - Anytime - At Least 1x -	And - Anytime - At Least 1x -
👗 Patient List	 (200.00-208.92) MALIGNANT NEOPLASM OF LYMPHATIC AND HEMATOPOIETIC TISSUE 		Pediatric	Black/African-American	(204.00-204.92) Lymphoid leukemia
	 ✓ ◎ (204.00-204.92) Lymphoid leukernia ✓ ◎ (204.80-204.82) Other lymphoid leukernia 	1			
	 (204.81) Other lymphoid leukemia, in remission (205.00-205.92) Myeloid leukemia (205.10-205.12) Myeloid leukemia, chronic 		In the Same Encounter	In the Same Encounter	In the Same Encounter
	 (205.10) Chronic myeloid leukemia, without mention of having achieved remission 				
	 O (205.20-205.22) Myeloid leukemia, subacute O (205.22) Subacute myeloid leukemia, in relapse 				
	 O (205.80-205.82) Other myeloid leukemia O (205.82) Other myeloid leukemia, in relapse 				
	 (205.90-205.92) Unspecified myeloid leukemia (205.91) Unspecified myeloid leukemia, in remission 				
C Need Help?	 (205.92) Unspecified myeloid leukemia, in relapse (206.00-206.92) Monocytic leukemia (206.00-206.02) Monocytic leukemia, acute 	-			

Depending upon the complexity of the query and the attributes selected, queries may take a while to run; the time elapsed is shown. The query can be cancelled at any time by clicking **Cancel Query**:

🔎 leaf		New Query O patients	+ New Q	uery 🛢 Databases 🗸 🐣 jacevedo2 🗸
Q Find Patients	All Concepts - leukemia	0 of 1 sites complete 4.6 seconds elapsed	× Cancel Query	
🖽 Мар	 ✓ O Diagnoses ✓ O ICD9 	hide detail UC-L		
ili Visualize	 (001.0-999.9) DISEASES AND INJURIES (140.0-239.9) NEOPLASMS 	At Least 1x ~	And - Anytime - At Least 1x -	And + Anytime + At Least 1x +

8. QUERY RESULTS

When the query is finished running, the total count of patients found, with our search terms, will be displayed at the top, center. *Reminder, Leaf includes patient data from 1/1/2012 to the present date.*

We can also choose to save our query:

🤎 leaf		New Ouery		uery 🛢 Databases 🗸 🐣 jacevedo2 🗸
Q Find Patients	All Concepts - leukemia		☆ Save Query	
🛱 Мар	 ✓ O Diagnoses ✓ O ICD9 	Limit to -		
II Visualize	 O (001.0-999.9) DISEASES AND INJURIES O (140.0-239.9) NEOPLASMS 	Patients Who ← Anytime ← At Least 1x ←	And - Anytime - At Least 1x -	And - Anytime - At Least 1x -
Patient List	O (200.00-208.92) MALIGNANT NEOPLASM OF LYMPHATIC AND HEMATOPOIETIC TISSUE	Pediatric	Black/African-American	(204.00-204.92) Lymphoid leukemia
	 © (204.00-204.92) Lymphoid leukemia © (204.80-204.82) Other lymphoid leukemia © (204.81) Other lymphoid leukemia, in remission © (205.00-205.92) Myeloid leukemia © (205.10-205.12) Myeloid leukemia, chronic © (205.10) Chronic myeloid leukemia, without mention of having 	In the Same Encounter	In the Same Encounter	In the Same Encounter

Provide a Query Name, Category, and click Save:



Saved queries will appear at the very bottom of the concept hierarchy tree:

<i> M</i> leaf	per	l afr-amer lymphoid leukemia 31 patients ①	+ New Que	ery 😂 Databases 🗸 🔺 jacevedo2 🗸					
Q Find Patients	All Concepts - Search		🔂 Save Query						
🕼 Мар	Demographics Diagnoses	Limit to 🗸	Limit to +						
ılı Visualize	 O Encounter Types O Labs 	Patients Who + Anytime + At Least 1x +	And - Anytime - At Least 1x -	And - Anytime - At Least 1x -					
▲ Patient List	O Medications O Procedures My Saved Cohorts	Pediatric	Black/African-American	(204.00-204.92) Lymphoid leukemia					
	 LIRB21-0000 ped afr-amer lymphoid leukemia ± 31 	In the Same Encounter	In the Same Encounter	In the Same Encounter					

It is also recommended to save queries in the event that you would like to submit a request for a full data set.

9. SAVED QUERIES

To obtain results for long/large queries, the use of 'Saved Queries' is suggested as an alternative method. For example, when trying to find all patients who've had renal cancer along with a several surgical procedures, first search for all patients who've had renal cancer, and save that query. Then perform another query that includes the saved renal cancer query while applying additional filters for the surgical procedures of interest.

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10.VISUALIZE

On the left hand side menu, the **Visualize** feature will display the graphical stats of the patients found in your query:



11. PATIENT LIST

On the left-hand side menu, the **Patient List** feature will display the de-identified patients found in your query:

📈 leaf				ped	afr-amer lympl 31 patient	noid leukemi s i	a			+ New Q	uery 🛢 Databases 🗸	A jacevedo2∙	,
Q Find Patients	Current Datasets (click to edit	columns) Bas	ic Demographics 🗸 🗍	+ Add More Data									-
🗘 Мар	Displaying 31 de-identified pati	Hsplaying 31 de-identified patients with 31 rows of data											I
II Visualize	What is de-identification?	Person Id	Patient Of	Address Postal Code	Address State	Age	Ethnicity	Gender	Language	Marital Status	Race	Religion	I
🚢 Patient List	View details (0 rows) 🗸	-670300071	University of Chicago	606	Illinois	21	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown	I
	View details (0 rows) 🗸	451983823	University of Chicago	606	Illinois	15	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown	I
	View details (0 rows) 🗸	1668309300	University of Chicago	606	Illinois	13	Hispanic or Latino	Female	Unknown	Unknown	Black or African American	Unknown	1
	View details (0 rows) 🗸	-1091491350	University of Chicago	463	Indiana	18	Hispanic or Latino	Female	Unknown	Unknown	Black or African American	Unknown	1
	View details (0 rows) 🗸	29801803	University of Chicago	606	Illinois	23	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown	
	View details (0 rows) 🗸	1109565245	University of Chicago	606	Illinois	13	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown	
	View details (0 rows) 🗸	-1313873030	University of Chicago	606	Illinois	17	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown	
	View details (0 rows) 🗸	-283500519	University of Chicago	606	Illinois	22	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown	
	View details (0 rows) 🗸	126206749	University of Chicago	606	Illinois	18	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown	
	View details (0 rows) 🗸	-1818784342	University of Chicago	606	Illinois	19	Hispanic or Latino	Female	Unknown	Unknown	Black or African American	Unknown	
	View details (0 rows) 🗸	-647150551	University of Chicago	606	Illinois	24	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown	
Need Help?	View details (0 rows) 🗸	-552963925	University of Chicago	609	Illinois	12	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown	

10

Please note, although your query will display the total number of patients found, viewability is limited to 500 records. Any dates will be date-shifted as well.

📈 leaf			ped afr-amer 31	r lymph patient	noid leukem s 🛈	ia			+ New Q	uery 📑 Databases 🗸	A jacevedo2∨
Q Find Patients	Current Datasets (click to edit colum	Basic Demographics - + Add More Data									Î
🖽 Мар	Displaying 31 de-identified patients v	vil 12 Person Id									
11 Visualize	What is de-identification?	Patient Of Id Address Postal Code		State	Age	Ethnicity	Gender	Language	Marital Status	Race	Religion
🚢 Patient List	View details (0 rows) 🗸 -670	Address State			21	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown
÷	View details (0 rows) 🛩 4519	Age 888: Ethnicity			15	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸 1668	3 9: Gender			13	Hispanic or Latino	Female	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸 -109	14 11 Language			18	Hispanic or Latino	Female	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸 2980	1 0: Marital Status			23	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸 1109	S Race			13	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸 -131	Religion 38 2000 oniversity of onicago loco			17	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸 -283	500519 University of Chicago 606	Illinois		22	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸 1262	06749 University of Chicago 606	Illinois		18	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸 -181	8784342 University of Chicago 606	Illinois		19	Hispanic or Latino	Female	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸 -647	150551 University of Chicago 606	Illinois		24	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown
O Need Help?	View details (0 rows) 🗸 -552	963925 University of Chicago 609	Illinois		12	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown

You can choose to display or hide columns on the screen with this selection feature:

You can also choose to add additional datasets based on **Observations** and **Procedures**:

📈 leaf				pe	ed afr-amer lym 31 _{patie}	phoid leuken nts ①	la			+ New Query	🛢 Databases 🗸	A jacevedo2∨
Q. Find Patients	Current Datasets (click to edit	t columns) Ba	ie Democraphies -	+ Observations								
	Displaying 31 de-identified a	at							Anutima			
ılı Visualize	What is de-identification?	Observation	a dataset						In Past 48 Ho	urs		Religion
🚢 Patient List	View details (0 rows) 🗸	Procedures							In Past 30 Da	/S	or frican American	Unknown
	View details (0 rows) 🐱								In Past 12 Mo	nths	or frican American	Unknown
	View details (0 rows) 🐱								In Past 2 Year	s	or frican American	Unknown
	View details (0 rows) 🗸								In Past 3 Year	S	or frican American	Unknown
	View details (0 rows) \sim								From Spacific	Encountore	or frican American	Unknown
	View details (0 rows) 🗸								From apecine	Encounters	or frican American	Unknown
	View details (0 rows) 🛩										or frican American	Unknown
	View details (0 rows) 🛩	-									or frican American	Unknown
	View details (0 rows) 🗸									Add Dataset	or frican American	Unknown
	View details (0 rows) 🗸	1010704040	Internet Alternation	606	Weele	10	Henry Controller	Female	Holosoon	Holosom Ol	al African American	Unknown
	View details (0 rows) 🗸	-647150551	University of Chicago	606	Illinois	24	Hispanic or Latino	Male	Unknown	Unknown Bla	ick or African American	Unknown
Need Help?	View details (0 rows) 🛩	-552963925	University of Chicago	609	Illinois	12	Hispanic or Latino	Male	Unknown	Unknown Bla	ick or African American	Unknown

What is **de-identification**? See explanation below:

🔎 leaf	New Query + New Query ≣ Databases مجاوع المحافظ الم								A jacevedo2∨
Q Find Patients	Current Datasets (click to edit columns) Basic Demographics - + Add More Data								Î
Ф Мар	Displaying 31 de-identified patients with 31 rows of data								
ılı Visualize	What is deidentification Because you've logged in deidentified mode, Leaf has date-shifted and re- identifiers for all data shown below. This means that all dates have been re shifted a certain amount of time, and identifiers such as MRNs and name because the section of the s	moved andomly s have	Age	Ethnicity	Gender	Language	Marital Status	Race	Religion
🚢 Patient List	View details (0 row: Note: While the amount of time shifted is different between patients, the d	late-shift	22	Hispanic or Latino	Female	Unknown	Unknown	Black or African American	Unknown
	View details (0 row:	eserved.	12	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) V 1472555920 University of Chicago 601 Illi	nois	9	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown

You can also click on any of the column headings to sort the dataset by that element:

📈 leaf					New Qu 31 patient	ery ts (i)				+ New Q	uery 🛢 Databases 🗸	A jacevedo2∨
Q Find Patients	Current Datasets (click to edit	columns) Bas	ic Demographics 🗸	+ Add More Data								í
🛱 Мар	Displaying 31 de-identified pat	ients with 31 rov	ws of data									
III Visualize	What is de-identification?	Person Id	Patient Of	Address Postal Code	Address State	Age 1	Ethnicity	Gender	Language	Marital Status	Race	Religion
🔺 Patient List	View details (0 rows) 🗸	1472555920	University of Chicago	601	Illinois	9	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸	561624342	University of Chicago	604	Illinois	10	Not Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸	-488313140	University of Chicago	463	Indiana	11	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸	1221620600	University of Chicago	606	Illinois	12	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸	220763645	University of Chicago	604	Illinois	12	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸	-1136013626	University of Chicago	609	Illinois	12	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸	2121230128	University of Chicago	606	Illinois	13	Hispanic or Latino	Female	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸	-455948607	University of Chicago	606	Illinois	13	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸	702933169	University of Chicago	605	Illinois	13	Hispanic or Latino	Female	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸	1514005953	University of Chicago	606	Illinois	14	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown
	View details (0 rows) 🗸	-2145332305	University of Chicago	606	Illinois	14	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown
Need Help?	View details (0 rows) 🗸	-857618715	University of Chicago	606	Illinois	15	Hispanic or Latino	Male	Unknown	Unknown	Black or African American	Unknown

12. LEAF SUPPORT

Leaf is supported and administered by the Biological Sciences <u>Center for Research Informatics</u> (CRI). The CRI is responsible for the maintenance and the administration of the application.

Documentation

For a link to support documentation, please click on the **Need Help?** button on the lower left-hand side of the screen (shown below).

📈 leaf		New Query O patients		• New Query 🛢 Databases 🗸 🔺 jacevedo2 🗸
Q Find Patients	All Concepts - Search		Q Run Query	
🖽 Мар	Demographics O Disgnoses	Limit to 🗸		
, Visualize	O Encounter Types O Labs	Patients Who • Anytime •	And - Anytime -	And - Anytime -
🛎 Patient List	Medications	At Least 1x +	At Least 1x -	At Least 1x -
	> 👗 My Saved Cohorts			
Need Help? Con	tact a Leaf administrator or Learn more here			

Request Assistance

To request assistance with Leaf (access related or questions) please submit a request at: <u>https://bit.ly/30d629A</u>. See steps below.

Choose Data extracts and analytic reports

)	CUCMIT Service Catalog > Analytics Request System (ACRES)	20 per page	¢	Q Search catalog
	Analytics Request System (ACRES)			
	Items			
	 Data extracts and analytics reports Request for data extracts and analytics reports preview 			
	 Direct system access to databases Direct system access for report builders and analytics users (e.g., Unified Data Platform, Clarity, Caboodle) preview 			
	□ Land data into the UDP Migrate new data into the Unified Data Platform (UDP) ▶ preview			
	 □ Join the Tableau Explorer Program Training program for Tableau analysis and web-authoring ▶ preview 			
	Other analytics requests Access to SlicerDicer/Reporting Workbench preview			

The form will populate with your user information. Please complete the additional fields according to the screenshots below.

Please ensure the **Requester Department or Workgroup field** is completed.

★ Requested For		★ Requested By
Tiffany Cyrus	Q (j)	Tiffany Cyrus Q
Requester ID		Requester Email
tcyrus		tcyrus@bsd.uchicago.edu
Requester Job Title		* Requester Department or Workgroup
IT Project Management, Sr. Analyst - ITIPMP2E		
- 1. Request Form		
lpha Is this request to modify an existing report?		
No	\$	
st How often would you like this data to be refreshed?		
One-Time Request	\$	
st What format would you like this one-time data extract	request?	
CSV File	\$	
★ Is this request related to Soarian data?		
No	\$	
st Is data from this request to support human-subject re	search?	
No	\$	

★ Will DATA or RESULTS of this request be presented or shared outside the organization?

▼ Data and Results Definitions

DATA: Raw data from internal UCM databases RESULTS: Interpretation, insights, or analysis drawn from raw data

* Does data from this request contain Personally Identifiable Information (including PHI, such as MRN, patient names, dates of service; to see full list of PHI, select "Yes"), finance, employee/human resources, UCM confidential or strategic data?

No

V

Does data from this request contain any "restricted" or "internal use only" information as defined under the UCM IT Data Classification Policy?

\$

\$

UCM IT Data Classification Policy	
None	\$
st Has a request similar to this one been successfully com	pleted in the past?
No	\$
st Have you already spoken with a fulfillment team regard	ding this request?
★ Have you already spoken with a fulfillment team regard Yes	ding this request?
 Have you already spoken with a fulfillment team regard Yes Please select the team with whom you have spoken reg 	ding this request?

★ Is this an urgent request?

No

★ How will these data be used?

Assistance with Leaf

* Please specify the particular columns and data elements you are requesting through the use of a template, screenshot or a detailed list below (if helpful, please use the attachment feature on the top right of this page):

Varning:									
	Do not attach documents with PHI.								
	NA								

I hereby acknowledge that any devices used to view, process, store, or transmit sensitive data are encrypted as required by the Information Security Office and the Privacy Office. UCM-IT or BSD-IS can assist with device encryption. In addition, I attest to follow all applicable organizational policies on data use, disclosure, and HIPAA compliance. Furthermore, I will direct any approved recipient of these data to the applicable policies.



Please click here to see the Applicable Internal Policies

Select Order Now to submit the request.

Tiffa	iny Cyrus • 〇, 뎌가 (?	হট্ৰ
R Q Se	arch catalog	•
is required before submitting	Order this Item Order Now Add to Cart Shopping Cart Empty	
r Workgroup		

Your request will be routed to the CRI and a member of our team will contact you to assist with your request.

To request a **full data set**, please ensure that you have saved your queries and submit a request following the regular request process at <u>https://cri.uchicago.edu/crdw/#getstarted</u>

13. DOCUMENT CHANGE HISTORY

VERSION	DATE	STAFF NAME	CHANGE DETAILS
Leaf User Guide V1.0 052021	5/20/21	Julissa Acevedo	Initial Document
Leaf User Guide V1.1 070921	7/9/21	Julissa Acevedo	Emphasized data is from 2012, page 3 and 8.
Leaf User Guide V1.2 011222	1/12/22	Tiffany Cyrus	#2 Accessing Leaf/#8 Query Results/#13 Leaf Support
Leaf User Guide V1.3 012722	1/27/22	Brian Furner	Updates and map feature removal
		Tiffany Cyrus	Added steps for requesting support