

DataDirect User Guide

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DataDirect User Guide

DataDirect is an application that allows users to create queries using data that has been submitted to MPOG for quality improvement and research purposes. It contains multiple filters that can help easily identify a cohort of patients. For example: Before a researcher begins work on a proposal, they can use DataDirect to identify patient, case, and institution counts for the cohort they are interested in studying. For QI purposes, providers can generate a count of how many patients received reversal for neuromuscular blockade during a specific timeframe and compare that to institution reintubation rates to identify if any correlation exists.

Gaining DataDirect Access

DataDirect contains a limited dataset: Protected Health Information is excluded except for date of service. However, because DataDirect may contain information regarding hospital level quality indicators (i.e. hospital mortality), we ask that approval from the appropriate hospital department (i.e. Quality or Health Information Management) is obtained. In order to obtain access to DataDirect, an authorization form must be completed and sent to the MPOG coordinating center. This form can be found on our website https://mpog.org/ under the "Join" tab in the top right corner.



Next click "Downloads" from the menu on the left side:



To download the form click "MPOG DataDirect Security Checklist and Authorization Form" located under Research at the top

Research MPOG DataDirect Security Checklist and Authorization Form Please scan and email the completed form to Chris Ladd (<u>laddchri@med.umich.edu</u>) or Meridith Bailey (<u>meridith@med.umich.edu</u>). You will be contacted once login permissions have been updated.

Generating a Query

When creating a query, there are two modes you can choose from. **Cohort Mode** allows you to view case counts across all MPOG sites while **Data Download mode** allows you to only download cases from your site. Although DataDirect will display final case counts, institution's will remain unidentified. The following guide walks through the filters available and steps needed to create a query.

Cohort Query Mode

Upon logging in, select **Create a new blank query** to proceed. To use a previously created query, click **Select an existing query**. In cohort mode, you are able to view case counts across all MPOG sites.

Welcome
Please choose an option below
Create a new blank query
Select an existing query
Recent Queries
Test

Enter a name, description, and reason for your query. Select **Cohort** under Query Mode and then click **Create New Query**.

Mama	
Lupus - Coho	rt.
Description	(optional)
Genio	
Reason for	Query (optional)
Research	*
	_
Query Mod	e
	0 😝 0

Next begin defining criteria for your query. Choose from the filters listed in the left panel, for example, select **Demographics**.

	TADIRECT			
Cohort Discovery Tool		Logged in as niper	seat Lopout	
Demographics		Current Query (or	ohort) 🗕 Co	hort Query Mode
a second products		Lupus - Cohort		
Cases		Cohort Discovery P	tesults	
Comorbidities		Initial Counts	4,971,788 patients 7,949,189 cases	
2 Diagnoses			45 institutions	
4 Procedures		Final Counts	4,971,788 patients 7,949,189 cases	
Medication Administration			40 institutions	
Mitraoperative Notes				
Physiologic				
Laboratory				
🛓 Outcomes				

Demographics are *patient-level* characteristics available from the administrative registration systems (**not** case-level data, in other words, they do not change from one case to another).

Select the checkboxes beside the characteristics to *include* them in your query. De-select items you do **not** wish to include. For example, to find only Female patients, de-select Male and Unknown under Gender. *You can include any institution in cohort mode.

Click **Add** to *add* these criteria to your query.

Cohort Discovery Tool	Demographics						
0emographies	Patient characteristics from administrative registration systems. Data is mostly case-level and reflects the most recent value for a given patient (e.g. smoking				is mostly smoking		
Cases	status), regari	dless of ti	me period s	pecified in	Cases.		
Comorbidities	Gender	🕅 Fen	nale 🗟 Ma	ale 🖻 Un	known		
Diagnoses	Age	0	year(s)	• to 150) year(:	s) •	
Procedures	BMI	0	to 100				
Medication Administration	Institution	any i	Institutior	1			
/ Intraoperative Notes	Race	any i	race				
Physiologic Laboratory Cutcomes	Smoking Stat	ius: 😡		Current	🕏 Former	🖉 Never	🕅 Unknow

<u>Cohort Results</u>: As DataDirect retrieves data to match the selected criteria, the right panel of the screen will display final counts. Note: Your query is also saved to your individual profile in DataDirect.



Cohort Discovery Results include 1) *initial patient, case, and institution counts,* 2) *saved query criteria,* and 3) *final count of patient data matching your query.* As you build your query, check the right panel to verify that your criteria have been added. At any time, you may enable/disable, edit or remove an individual filter from your query.



<u>Cases</u>: To continue building your query, select an additional filter category, for example, **Cases**. Check boxes you wish to select per each field. Click "Add" to finalize.



Review the updated result panel on the right side of the screen each time you click "**Add**" to note the additional criteria have been *saved* to your query. In this example, both Demographics and Cases criteria have been added to the query, and a final count has been generated:

Logged in as nipeso	at Logout
Current Query (coh	iort) 📃 🗧
Lupus - Cohort	
Cohort Discovery Re	sults
Initial Counts	
Demographics Age: 0 years - 150 years BMI: 0.0 - 100.0	
Cases	*,512,005 patients
Procedure Date: 01/01 Anesthesia time: 1 min	/2000 - 10/31/2017 ^
	4,286,324 patients 6,918,250 cases
Final Count: acc440 PM 10/31/2017	4,286,324 patients 6,918,250 cases 33 institutions

<u>**Comorbidities**</u>: Next, Select **Comorbidities**, and continue to check the boxes of from the dropdown menu of comorbidities you want to include in your query.

Cohort Discovery Tool				
<u> </u>	Comorbidities			
M. Dom Chies	Elixhauser comorbidity meas	ures are pre-defined collections of ICD-9 and ICD-10 of in-bosoital mortality. The comorbidities are only available	codes which assess for 31 patient comorbidities, commonly used Jable for centers contributing Problem Summary List ICD9/10 or	for Discharou
10	ICD9/10 data. ICD-10 coding	was initially developed by the World Health Organiza	ation in 1992, and the United States began requiring the use of IC	D-10
	coding October 1, 2015.			
🐧 comorbidittes 🅥 🌆	Elixhauser comorbidities	any comorbidities		
Diagnoses		Check all Uncheck all		
1.	Inclusion/Exclusion	Alds HIV		
C Procedures	Concernance of the second	Alcohol Abuse		
🥖 Medication Administration	Cancel Add	Blood Loss Anemia		
-		E Cardiac Arrhythmias		
		Chronic Pulmonary Disease		
Physiologic		Coagulopathy		
Laboratore		Congentive Heart Failure		
(II) (months)		Deficiency Anemia		
🐈 Olitcomes		E Depression		
Output View Selection		Diabetes Complicated		
		Diabetes Uncomplicated		
X Individual Data		🛢 Drug Abuse		
A Groups		Fluid Electrolyte Disorders		
		🚊 Hypertension Complicated		
		Hypertension Uncomplicated	-	

Diagnoses: Begin typing the desired diagnosis name (or associated ICD-9 and ICD-10 codes) into the Diagnosis Code field. IDC-10 codes were required as of October 1, 2015, therefore historical data may not include ICD-10 codes. If you are interested in capturing diagnosis data for a case before that occurred before this date, please choose both ICD-9 and ICE-10 codes. Select the codes you desire, then click "Add Selected".

MPOG DA	TADIRECT	
Cohort Discovery Tool	Diagnoses Perioperative patient diagnoses are derived from billing sources (administrative or professional billing) or the clinician-entered Clinician-entered problem lists use problems linked to ICD-9 and ICD-10 codes, ICD-10 coding was initially developed by the W 1992, and the United States began requiring the use of ICD-10 coding October 1, 2015. Diagnosis Source [Search all sources] ■ KD-9 KD-10 Include related ICD-9/ICD10 Diagnosis code [spun]	problem summary list. forld Health Organization in
Medication Administration Intraoperative Notes Physiologic	or description Present on admission 0 item(s) selected Add Selected Inclusion Fixedur Top Result Inclusion fixedur E Systemic lupus anythematosus (710.0) Contextual No discovers have = 5 contextual and expected of 143.2 b	op Results – most fr
Laboratory	Cancel Add E Lupus erythematosus (695.4) 2271 mms Giomerular disease in systemic lupus erythematosus 24 more	
	ICD9 Discharge Diagnoses Systemic lupus erythematosus [710.0] Index Innes Lupus erythematosus [695.4] /// Innes Discold lupus erythematosus of eyelid [373.34] /// Innes	ICD-9 Codes
	ICD10 Discharge Diagnoses Systemic lupus erythematosus, unspecified <m32.9> Giomerular disease in systemic lupus erythematosus <m32.14></m32.14></m32.9>	ICD-10 Codes
	Discold lupus erythematosus <l93.0> Lupus anticoagulant syndrome <d68.62> 21 more</d68.62></l93.0>	

As you select a diagnosis code, the 'parent' ICD-9 and ICD-10 codes and its associated 'child' ICD-9 and ICD-10 codes will be displayed and automatically **included**. De-select (click the red X) any individual code you wish to remove from the suggested list. "Inclusion" is the default selection. Click "Add" when finished.

		7
Systemic lupus erythematosus	/ 8	N
ICD-9	_ ⁸	
[/10.0] Systemic lupus erythematosus	1 8	
[710.1] Systemic sclerosis		
[710.2] Sicca syndrome		
[710.3] Dermatomyositis	8	
[710.4] Polymyositis	8	11
[710.5] Eosinophilia myalgia syndrome	8	
[710.8] Other specified diffuse diseases of connective tissue	8	
[710.9] Unspecified diffuse connective tissue disease	8	11
ICD-10	8	
<m32.10> Systemic lupus erythematosus, organ or system involvement unspecified</m32.10>	8	
<m32.9> Systemic lupus erythematosus, unspecified</m32.9>	8	
<m34.0> Progressive systemic sclerosis</m34.0>	8	
<m34.1> CR(E)ST syndrome</m34.1>	8	
<m34.9> Systemic sclerosis, unspecified</m34.9>	8	
<m34.89> Other systemic sclerosis</m34.89>	8	
<m35.00> Sicca syndrome, unspecified</m35.00>	•	
<m35.01> Sicca syndrome with keratoconjunctivitis</m35.01>	8	
<m33.09> Juvenile dermatopolymyositis with other organ involvement</m33.09>	8	
<m33.10> Other dermatopolymyositis, organ involvement unspecified</m33.10>	8	
<m33.90> Dermatopolymyositis, unspecified, organ involvement unspecified</m33.90>	8	
<m33.00> Juvenile dermatopolymyositis, organ involvement unspecified</m33.00>	8	
<m36.0> Dermato(poly)myositis in neoplastic disease</m36.0>	8	
<m33.19> Other dermatopolymyositis with other organ involvement</m33.19>	8	
<m33.99> Dermatopolymyositis, unspecified with other organ involvement</m33.99>	•	
<m21.80> Other specified acquired deformities of unspecified limb</m21.80>	8	
<m33.20> Polymyositis, organ involvement unspecified</m33.20>	0	
<m33.29> Polymyositis with other organ involvement</m33.29>	•	
<m35.8> Other specified systemic involvement of connective tissue</m35.8>	0	
<m35.5> Multifocal fibrosclerosis</m35.5>	8	
<l87.1> Reactive perforating collagenosis</l87.1>	8	
<m35.1> Other overlap syndromes</m35.1>	8	
<m35.9> Systemic involvement of connective tissue, unspecified</m35.9>	0	
<m36.8> Systemic disorders of connective tissue in other diseases classified elsewhere</m36.8>	0	
	-+	-/
Cancel (Add)		/

<u>NOTE</u>: To **Exclude** a characteristic in your query (e.g., run a query to retrieve patients who do NOT have Lupus), you must "UNCHECK" the Inclusion / Exclusion checkbox. When the box is **unchecked**, the indicator "Exclusion" appears in bold print.



Adding "OR" Logic: You may be interested in patients who have *either* one condition *or* a second condition. For example, if you were interested in patients with Lupus **OR** patients with Diabetes, use "OR" logic. To achieve this, include the Diabetes criteria in the "same criteria box" as the Lupus diagnoses. Open the existing Diagnoses query Lupus. Click the **Edit** icon is to edit the Diagnoses filter.



Enter the second criteria, e.g., Diabetes. Select the desired code(s) by clicking Add Selected

Diagnoses Perioperative patient diagnoses a Clinician-entered problem lists us in 1992, and the United States be	re derived from billing sources (administrative or professional billing) e problems linked to ICD-9 and ICD-10 codes. ICD-10 coding was initi gan requiring the use of ICD-10 coding October 1, 2015.	or the clinician-entered problem summary list ially developed by the World Health Organizat
Diagnosis Source	[Search all sources]	
	✓ ICD-9 🖉 ICD-10 🖉 Include related ICD-9/ICD10	
Diagnosis code	diabetes	0
or description	1 item(a) selected	Add Selected
resent on admission	Top Result	
Inclusion/Exclusion Include selected diagnoses –	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled [250.00]	1998017 times
ICD-10 <m32.10> Systemic lupus <m32.9> Systemic lupus e <m34.0> Progressive syste <m34.1> CR(E)ST syndron</m34.1></m34.0></m32.9></m32.10>	 Type 2 diabetes mellitus without complications <e11.9></e11.9> Diabetes mellitus without mention of complication, type I or unspecified type, uncontrolled [250.02] Type 2 diabetes mellitus with hyperglycemia <e11.65></e11.65> 	939400 times I 211274 times 209389 times
<m34.9> Systemic scleros</m34.9>		
<m34.89> Other systemic <m35.00> Sicca syndrome</m35.00></m34.89>	ICD9 Discharge Diagnoses	
<m35.01> Sicca syndrome <m33.09> Juvenile derma <m33.10> Other dermato</m33.10></m33.09></m35.01>	 Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled [250.00] Diabetes mellitus without mention of complication, type I 	
<m33.90> Dermatopolym <m33.00> Juvenile derma</m33.00></m33.90>	or unspecified type, uncontrolled [250.02] Diabetes with neurological manifestations, type II or	
<m83.19> Other dermato <m83.99> Dermatopolym</m83.99></m83.19>	unspecified type, not stated as uncontrolled [250.60]	
<m21.80> Other specified <m33.20> Polymyositis. o</m33.20></m21.80>		91 more
<m33.29> Polymyositis wi <m35.8> Other specified</m35.8></m33.29>	ICD10 Discharge Diagnoses	939400 1/00/2

Remove any "child" ICD-9 and ICD-10 codes that you do not wish to keep (by clicking the red X for each). Click **Update** (both conditions will be listed).



<u>Adding "AND" Logic</u>: In contrast, if you are interested in patients who have BOTH Lupus AND Diabetes diagnoses, use "**AND**" logic. To find these patients, build two separate filters (i.e. one for Lupus, and a separate one for Diabetes). Start with an initial Diagnosis filter including Lupus.



Build an additional Data Source (Diagnosis) by *returning* to the main filter list. Click **Diagnoses**, enter Diabetes into the Diagnosis code field, and click **Add Selected** to create new, separate criteria.

Cohort Discovery Tool	-			
🐮 Demographics	Diagnoses Perioperative patient diagnoses a Clinician-entered problem lists us 1992, and the United States bega	are derived from billing sources (administrative or professional billing) se problems linked to ICD-9 and ICD-10 codes. ICD-10 coding was initia in requiring the use of ICD-10 coding October 1, 2015.	or the clinician-en ally developed by	tered problem summary list. the World Health Organizati
Comorbidities	Diagnosis Source	[Search all sources]		
Diagnoses		Ø ICD-9 Ø ICD-10 Ø Include related ICD-9/ICD10		
/ Dimenduren	Diagnosis code	diabetes		0
	or description	1 item(s) selected	Add Selected	*
Medication Administration	Present on admission	Top Result		
🖌 Intraoperative Notes	Inclusion/Exclusion Include selected diagnoses	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled [250.00]	1998017 times	
Physiologic	No diagnoses have been select	Type 2 diabetes mellitus without complications <e11.9></e11.9>	- 539465 terms	
Internetory	Cancel Add	Diabetés mellitus without mention of complication, type II or unspecified type, uncontrolled [250.02]		
 Outcomes 		Type 2 diabetes mellitus with hyperglycemie <e11.65></e11.65>		
			96 more	
		ICD9 Discharge Diagnoses		
		Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled [250.00]		
		Diabetes mellitus without mention of complication, type I or unspecified type, uncontrolled [250.02]		
		 Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled (250.60) 		
		Polyneuropathy in diabetes (357.2)	162000 00000	
			91 more	

After specifying the details (refining your ICD-9 and ICD-10 codes if desired), click **Add**. Each time you click **Add**, you are adding a new criteria panel (i.e. an 'AND' statement to the query).

abetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	
ICD-9	
[250.00] Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	
[250.01] Diabetes mellitus without mention of complication, type I [juvenile type], not stated as uncontrolled	
[250.02] Diabetes mellitus without mention of complication, type II or unspecified type, uncontrolled	
[250.03] Diabetes mellitus without mention of complication, type I [juvenile type], uncontrolled	
ICD-10	
<e10.8> Type 1 diabetes mellitus with unspecified complications</e10.8>	
<e11.65> Type 2 diabetes mellitus with hyperglycemia</e11.65>	
<e13.65> Other specified diabetes mellitus with hyperglycemia</e13.65>	
<e11.9> Type 2 diabetes mellitus without complications</e11.9>	
<e13.9> Other specified diabetes mellitus without complications</e13.9>	
<e10.65> Type 1 diabetes mellitus with hyperglycemia</e10.65>	
<e10.9> Type 1 diabetes mellitus without complications</e10.9>	

The additional required criteria appear as a separate criteria box in the right hand panel, and the narrowed query results show a far more limited population of patients – only those patients who possess BOTH of the listed diagnosis codes.



Each of the displayed criteria boxes in the right-hand panel represents an "AND" statement – in other words, all retrieved patients must possess ALL of these criteria:



In addition to the Procedures, Medication Administration, Intraoperative Notes, and Laboratory filters, you may select **Physiologic** data.

Cohort Discovery Tool	Physiologic			
👫 Demographics	Intraoperative physiologic da Search by MPOG concept ID	ta acquired from automated device interfaces (blood pressure, SpO2) or concept name.) or manually entered (Tr	ain-of-four ratio, EKG rhythm).
👔 Cases	Name of Physiologic Data	ekg		0
Comorbidities	R. Inclusion Column	1 item(s) selected	Add Selected	
Diagnoses	Include selected physiolo	Physiologic		
1 Procedures	No physiologic has been se	lect, 🖉 EKG Pulse Rate [3005]		
A		Respiratory Rate by EKG BioImpedence [3180]	210613100nes	
Medication Administratio	¹⁾ Minimum number of values	per case 1		
🖌 Intraoperative Notes	Cancel Add			
Physiologic	Constantial Libraria			
Laboratory				

Continue to build and refine your query using Data Sources on the left-hand panel. Refer to the instructions inside each filter panel to determine the source and details for the information available.

	TADIRECT,
Cohort Discovery Tool Cases Cases Comorbidities Diagnoses Procedures Medication Administration	Aboratory Perioperative laboratory cohort identification criteria which includes lab results. This is patient-level data, but can be connected to specific cases using result dates and case time linkages. Name of Laboratory Value Item(s) selected Inclusion/Exclusion Laboratory Inclusion/Exclusion Laboratory No labs have been selected V2/Konvill numex
Intraoperative Notes Physiologic Laboratory Cutcomes	Cancel Add

Share Your Query

Users have the ability to share queries that create. Fore example, researchers may explore ideas in DataDirect to identify a viable research topic and then share their query to the Coordinating Center programmer assigned to their PCRC project to have them run the query on the database before submitting to the PCRC committee. For Quality Improvement, a QI champion may generate a query that they share with their administration. An ACQR may want to share a query to track a certain subset of patients before or after QI project implementation

To share your query, select the dropdown menu icon **t** and select **Share Your Query**.



Enter the name or UserId of the DataDirect user you wish to share your query with, and click **Share**.

Share Your Cohort		
You can share your cohort search criteria with another DataDirect user. $oldsymbol{0}$		
Please enter the name or userid of the person below.		
Search by name or userid:		
Share with:		
Share Cancel		

Toggling Between Query Modes

To switch from Cohort Mode to Data Download Mode (or vice versa), click on the dropdown menu icon and select **Change the Query Mode**.



Select the desired mode for your query, then click **Change the Query Mode**.



Data Download Mode

Creating a New Query: After logging in, select **Create a new blank query** to proceed (or **Select an existing query** to use a previously created query). Note: In data download mode, you are ONLY able to download cases from your site.

Welcome
Please choose an option below
Create a new blank query
Select an existing query
Recent Queries
Test

Enter a name, description, and reason for your query and select Data Download, then click **Create New Query**. You may also download an existing Cohort query by editing your query and toggling the Query Mode to Data Download.

CICALE A	New Query	
Please provide	a name and a brief description for your new query:	
Name		
Sample		
Description	(optional)	
Reason for C	(optional)	
Research		
Query Mode	•	
	Data Download	
Cohort	Data Dominosti	

Continue to add criteria from the left panel to your query as you would in Cohort mode.

	TADIRECT	
Cohort Sister Syn Tool Cases Cases Comorbidities Cases Comorbidities Cagos Comorbidities Cagos Comorbidities Cagos Comorbidities Cagos Comorbidities Cases Comorbidities Cases Comorbidities Cases Comorbidities Cases Comorbidities Cases Case	Changes SavedNext Steps Your changes have been saved. Processing of your query will begin in the background. As your results come in, you will see the them appear on the right side of the screen. You may continue to make changes to your query even while it is processing. If you have no more changes to make, then you can leave your query to process in the background. You may go work on a different query (choose "create a new query" from the right side of the screen), or even close your browser completely. You can return to this query at any time to see the progress or get the final results once it is complete.	Logged in as nipescat Current Query (ph) Sample Cohort Discovery Results Initial Count: 4,972,127 patients 2,949,189 cases 4,972,127 patients 2,949,189 cases 4,972,127 patients Click the arrow for more details Click the arrow for more details Click the arrow for more details 4,944,174 patients 7,888,006 cases Click the arrow for more details S16,601 patients S64,303 cases Diagnoses Click the arrow for more details S16,601 patients S64,303 cases Diagnoses Click the arrow for more details S16,601 patients S44,303 cases Click the arrow for more details S16,601 patients S44,303 cases Diagnoses Click the arrow for more details S16,601 patients S44,303 cases Click the arrow for more details S16,601 patients S44,303 cases Diagnoses Click the arrow for more details S16,601 patients S44,303 cases Click the arrow for more details S16,601 patients S16,601 patients S177 case Click the arrow for more details S16,601 patients S16,601 patients S177 case Click the arrow for more details S16,601 patients S16,601 patients S16,
	Email Support/Feedback	

NOTE: Since you may only download cases from your own site, you will receive an error message if you attempt to run a query with a filter that includes multiple sites. Verify that you have selected your institution in the **Demographics** section.

MPOG DATADIRECT			
Cohort Discovery Tool	Demographics		
Remographics	Patient characteristics from administrative registration systems. Data is mostly case-level and reflects the most recent value for a given patient (e.g. smoking status), regardless of time period specified in Cases.		
Cases	Gender 🖉 Female 🕷 Male 🕷 Unknown		
Comorbidities	Age 0 year(s) • to 150 year(s) •		
Diagnoses	BMI 0 to 100		
C Procedures	Institution any institution		
Medication Administration	Deep		
Intraoperative Notes	nate any race F		
Physiologic	Smoking Status: 🥝 🖉 Current 🦉 Former 🦉 Never 🖉 Unknown		
Laboratory	Cancel Add		
0utcomes			
Output View Selection			
K Individual Data			
Groups			

To select the data elements, you want included in your dataset, click on **Individual Data** under the Output View Selection.

MPOG DATADIRECT			
Cohort Discovery Tool	Individual Data Elements Search or select individual data elements that describe the patient or case overall. Typically, these are observations that are only recorded or calculated to reflect one value per case or patient. For example, ASA status is an individual data element.	Logged in as nipescat Logoul Current Query (phi) Sample Cohort Discovery Results	
Comorbidities Co	All Type to search or select from the list below 	Initial Counts: 4,972,127 patients 7549,189 cases 49 institutions Click the errow for more details 4,972,127 patients Click the errow for more details 4,972,127 patients Click the errow for more details 4,972,127 patients 1,002/2017 Anesthesia time: 2 minute - 1440 minutes 4,944,174 patients 7,888,006 cases	
Output View Selection	Patient/Case Case_Seneral Case_Physiologic MpogPatientId MPOG_Patient_ID MpogCasedd MPOG_Case_ID	Comorbander include: Als HIV'or Depression or Diabetes Complicated or Diabetes Uncomplicated S16,601 patients 864,303 cases Diagnoses Click the arrow for more details 14,102 patients 23,717 cases Hinni Counts 14,102 patients 23,717 cases Hinni Counts 14,102 patients 23,717 cases	

In this section, you may select individual data elements that describe the *patient* or *case overall*. Begin typing the name of the item, and check the appropriate boxes to save these data elements.

Individual Data Elemen Search or select individual data eleme reflect one value per case or patient. F	nts nts that describe the patient or case overall. Typi or example, ASA status is an individual data eler	cally, these are observations that are only recorded or calculated to nent.
All	asa	
	 AsaClass AsaClass_Cleaned AsaNotes ASANotes_Cleaned 	
Patient/Case Case_General Case	Physiologic	
MpogPatientId	MPOG_Patient_ID	
MpogCaseId	MPOG_Case_ID	
AsaClass	AsaClass	≥×
AsaClass_Cleaned	AsaClass_Cleaned	≥×
AsaNotes	AsaNotes	Z×
ASANotes_Cleaned	ASANotes_Cleaned	≥ ×

Select the **Case_General** tab or click on **Groups** under the Output View Selection section to choose case specific data elements such as admission type and procedural services. Check the box next to **Case_General** to begin selecting the items you desire.

Cohort Discovery Tool		A	
Semographics	Case_General General information about a case, admission type, procedural services, room, date and charge capture codes	~	
Comorbidities	Case_Medications All medications for a case, including medication, route, and unit of measure names	~	
Diagnoses	Case_Physiologic	~	
Medication Administration	All monitor data for a case		
Intraoperative Notes	Patient/Case_General ase_Medications Case_Physiologic	,	
Laboratory	MPOG_Case_ID MPOG_Patient_ID MPOG_Patient_ID		
outcomes 🛃			
Output View Selection			
🗙 Individual Data			
Groups			

Click on the arrow to view the items associated with general case information. The green plus sign signifies that the item will be included. The red X items display in "strike-through" to indicate that they will NOT be included.

8	Case_General		(\land)
	General information about a case, admission	on type, procedural services, room, date and charge capture codes	
	Column Description		1.1
	+ MPOG_Case_ID: MPOG_Case_ID		
	+ MPOG_Patient_ID: MPOG_Patient_	ID	
* MPOG_Institution_ID: MPOG_Institution_ID		tution_ID	
	MPOG_Admission_Type_Concept_ID: Concept Identifier for MPOG Admission Type		
	* MPOG_Admission_Type_Desc: Co	ncept Description from identifier for MPOG Admission Type	
	AIMS_Admission_Type: Admission	Type From AIMS Text	
	* MPOG_Primary_Procedural_Service_Concept_ID: Concept_Identifier-for-MPOG Primary_Procedural Service		
	MPOG_Primary_Procedural_Service_Desc: Concept Description from Identifier for MPOG Primary Procedural Service		
	AIMS_Primary_Procedural_Service: AIMS-Primary Procedural Service Text		
	MPOG_Procedure_Room_Type_Concept_ID: Cocenpt Identifier for MPOG_Procedure Room		
	* MPOG_Procedure_Room_Type_Desc: Cocenpt Description from Identifier for MPOG Procedure Room		
	AIMS_Procedure_Room_Name: AIMS_Procedure Room Name		
	* Aims_Scheduled_DT: Aims_Scheduled_Datetime for the Procedure		
AIMS_Scheduled_Procedure_Text: AIMS Scheduled Procedure Description			
	Aums_Actual_Procedure_Text: Aim	Actual Procedure Description	18
			F. (1)
-	ant/Care Canada Care Mediation	Case_Physiologic	
Pa	case_General Case_Medications		
Pa	OG_Case_ID	MPOG_Case_ID	

Click on the red X to change the symbol to a green plus sign



If desired, proceed to check the boxes next to **Case_Medications** and **Case_Physiologic**, and select the items you wish to be included in your dataset as previously described.

Cohort Discovery Tool	Cohort Discovery Tool				
Demographics	Case_General General information about a case, admission type, procedural services, room, date and charge capture codes	~			
Comorbidities	Case_Medications All medications for a case, including medication, route, and unit of measure names	~			
Diagnoses	Case_Physiologic	~			
Medication Administration	All monitor data for a case	*			
Physiologic	Patient/Case Case_General Case_Medications Case_Physiologic MPOG_Case_ID MPOG_Case_ID				
Laboratory	MPOG_Patient_ID MPOG_Patient_ID				
Output View Selection					
Y Individual Data					
Groups					



Running your Query: When you are ready to build your query, click the Run Query button.

Enter a password that will be used to protect the Excel file containing your data and select **Run Query**.

Run Query
Before your query can be run, please provide the following:
Password you must provide a password that will be used to protect the generated Excel file Password Strength retype password
Email Send an email to jayjeong@umich.edu when the Excel file is ready to be downloaded.
Run Query Cancel

Click **Return to current query (read only)** to view the status of your request. To create a copy of your query, select **Create a new query based on the current one**. Otherwise, choose from any of the other options presented. NOTE: You cannot modify your query once you have submitted it. You must create a new query based on the current one.

Query Submitted
Your query has been submitted. What would you like to do next:
Return to the current query (read only)
Create a new query based on the current one
Create a new blank query
Select a different existing query

A progress bar will appear at the top to indicate the status of your query. Once you have submitted your query you can no longer edit it. You can either cancel your submission or create a copy of your query.

