

Data Direct 2.0 User Guide



Data Direct Overview

- Data Direct is an application that allows users to create queries using data submitted to MPOG for quality improvement (QI) and research purposes.
- It contains multiple filters that can help easily identify a cohort of patients and access data following appropriate approvals



Data Direct Overview

- Researchers can use Data Direct to identify patient, case, and institution counts for the cohort they are interested in studying.
- Quality Champions can generate a list of patients to audit outcomes or processes of case. As an example, the Quality Champion for the site may be interested in identifying patients who received reversal for neuromuscular blockade and compare that to institution reintubation rates to identify if any correlation exists.



Gaining Data Direct Access

- Data Direct contains a limited dataset. Protected Health Information is excluded except for dates of service.
- However, because Data Direct may contain information regarding hospital level quality indicators (i.e. hospital mortality), approval from the appropriate hospital department (i.e. Quality or Health Information Management) is required.



Gaining DataDirect Access



 To gain access to DataDirect, an authorization form must be completed and sent to the MPOG coordinating center. This form can be found on our website <u>https://mpog.org/downloads</u>



Gaining Data Direct Access

• Please scan and email the completed form to <u>mpog-admin@med.umich.edu</u>. You will be contacted once login permissions have been updated. Access expires every six months. Users must renew to maintain access.



Generating a Query

When creating a query, there are three modes you can choose from.

- **Cohort Only** generates a *count* to rapidly determine feasibility of a research or QI project. There is no ability to download data, and no additional approval (e.g. Institutional Review Board) is required for access.
- Quality Report generates a cohort count, data query, and case list for a specific site. Although Data Direct will display final case counts, institutions will remain anonymized.
- Single Center Research allows for cohort identification and data access from your site only.
- **Multi-Center Research** allows for cohort identification and data access from multiple sites and requires approval from the Perioperative Clinical Research Committee (PCRC). Steps for PCRC review are found here: <u>https://mpog.org/pcrc/</u>



Step 1: Define your Project

• Choose from New, Existing, or Edit Current

Step 1: Define Project	Defining your project	
Create New Project	Queries within DataDirect are organized into projects. You can choose to create a new project for you query or to open a project created previously.	
Open Existing Project	Open Existing	
Edit Current Project	Edit Current	
Step 2: Filter		
Step 3: Define Output		
Step 4: Finalize		



Creating a New Query

• Enter a name, description (optional), and reason for your query

Step 1: Define Project Create New Project Open Existing Project Edit Current Project	Create a New Query Name your project and set a few attributes. Project Name
Step 2: Filter Step 3: Choose Output	Description (optional)
Step 4: Finalize	Query Mode Cohort Only (1) Quality Report (1) Single Center Research (1) Multi-Center Research (1)
	Choose Starting Population All Patients 7,469,488 patients All MPOG patients and cases 12,385,826 cases 55 institution 55



Step 2: Filtering Cases

• Next, begin defining criteria for your query. Choose from the filters listed in the left panel. The **Next** button advances users through the list of filters as they are added.



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MULTICEN

OUTCOMES GROUP

Cohort Results

- As Data Direct retrieves data to match the selected criteria, the right panel of the screen will display final counts. This will refresh as filters are added (see next slide). *Note: your query is also saved to your individual profile in Data Direct.*
- Results include:
 - Initial patient, case, and institution counts
 - Saved query criteria
 - Sequential counts of patient data matching each successive query criteria.

			Kathryn Buehler Logout
Step 1: Define Project	Cases		Project
Create New Project	Perioperative case characteristics from	n the clinical documentation and professional fee billing systems. Some patient characteristics (ASA status) may change from one case to another	ACQR Test Project ID: 2128
Open Existing Project	and reflect the information known at	the time of that case. Skip & Next	Query Mode: cohort
Edit Current Project	Procedure Date	01/01/2000 to 09/18/2019	cast opdated on 5/10/2015
Step 2: Filter	Procedure Date		Cohort Size
Demographics	CPT Base Units 🧐	3 to 30	Start 12,015,843 cases
Cases	Weekend Case 🥝	If Yes I No	
Comorbidities	Holiday Case 😨	Yes No	Gender: Female or Unknown
Diagnoses	15151	Area Area Area Area Area Area	Age: 20 years - 60 years BMI: 0.0 - 100.0
Procedures	ASA Status	TASA 1 TASA 2 TASA 5 TASA 4 TASA 5 TASA 6	Institution: University of Michigan Health System
Medication Administration	Emergency Status 🥹	Ves Vos Unspecified	1 Institutions
Intraoperative Notes	Admission Type 😡	Inpatient	
Physiologic		Cutpatient	
Laboratory		Unknown	
Outcomes	Case Duration	Anesthesia time 1 minute(s) to 1440 minute(s)	
Step 3: Define Output			
Step 4: Finalize	Cardiac Case	Tes TINO	
	Anesthesia Technique General 😡	Ves Vis No	
	Anesthesia Technique LMA	If Yes I No	
	Endotracheal Tube Used	In Yes In No	
	Anesthesia Technique Neuraxial 🥝	In Yes In No	
	Anesthesia Technique Block 🥺	If Yes I No	



Adding Filters

Demographics

• Demographics are *patient-level* characteristics available from the administrative registry systems, *not* case-level information.



Demographics

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.

Sex 😨	🖉 Female 🗌 Male 🕜 Unknown
Age 😨	20 year(s) ▼ to 60 year(s) ▼
вмі 🞯	0 to 100
Institution 🙆	1 institution selected +
	University of Michigan Health System 🗙
Race 🧐	any race ¢
Race 🧐 Smoking Status 😨	any race 🔹
Race 🧐 Smoking Status 🙆	any race 🔹

- **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 select all institutions or only your own institution in cohort mode.
- Click **Add** to add these criteria to your query:

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Add

Next

• The selected criteria will now appear in the box to the right

		Brooke Szymanski Logout
of time	Update Next Disable this filter Delete this filter	ProjectTestProject ID: 2163Query Mode: cohortLast updated on 10/11/2019Cohort SizeStartStart12,210,067All Patients55DemographicsGender: Female or UnknownAge: 20 years - 60 yearsBMI: 0.0 - 100.0Institution: University of Michigan Health System285,032 cases1 institutions



Filter Navigation

- As filters are created and updated, *Filter* Navigation buttons can be used in the top right corner of Data Direct. 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.
- First, click the header of the filter you would like to change







- Then, use the Filter Navigation buttons in the upper right-hand corner to make modifications.
- Update: When making changes to an existing filter, use Update to update filters on the right
- Next: Will move the user to the next step (i.e. the next filter down the list on the right).
- **Disable this filter**: Will disable the filter from the query. It will not be deleted but allows the user to view the difference in results when applying the filter vs. disabling the filter.
- Delete this filter: Will delete the filter entirely.



Cases

To continue building your query, select an additional filter category, for example, **Cases**.

- Choosing **Next** on the above screen will advance the user to the Cases filter.
- Check boxes you wish to select within each field.
- Click Add to apply the filter and Next to advance to the next filter (e.g. Comorbidities).

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.

(see next slide)



Step 2: Filter

Demographics

Step 1: Define Project



Demographics Age: 20 years - 60 years 285,032 cases

Cases

283,840 cases

Cases	Procedure Date 😨	01/01/2000 to 10/11/2019
Comorbidities		
Diagnoses	CPT Base Units 🥑	3 to 30
Procedures	Weekend Case 🕑	🖉 Yes 🖉 No
Notes	Holiday Case 😨	🖉 Yes 🖉 No
Medications Physiologic	ASA Status 💿	🗹 ASA 1 🗹 ASA 2 🗹 ASA 3 🗹 ASA 4 🗹 ASA 5 🗹 ASA 6
Labs	Emergency Status 😨	🖉 Yes 🖉 No 🖉 Unspecified
Outcomes	Admission Type 🙆	✓ Inpatient
Step 3: Choose Outpu		 ✓ Outpatient ✓ Other
Step 4: Finalize		✓ Unknown
	Case Duration 🞯 🞯 🖉	Anesthesia time 1 minute(s) to 1440 minute(s)
	Cardiac Case 🙆	✔ Yes ✔ No
	Anesthesia Technique General 😨	∉ Yes ∉ No
	Anesthesia Technique LMA	∉ Yes ∉ No
	Endotracheal Tube Used	∉ Yes ∉ No
	Anesthesia Technique Neuraxial 🕡	
	Anesthesia Technique Block 🕑	✓ Yes ✓ No

Comorbidities

• Check the boxes from the dropdown menu of comorbidities you want to include in your query. Select if you would like to keep only cases with those comorbidities or remove cases with the selected comorbidities.

CataDirect			
Step 1: Define Project	Comorbidities		
Step 2: Filter	Elixhauser comorbidity measure	s are pre-defined collections of ICD-9 and ICD-10 codes which assess for 31 patient comorbidities, commonly used for correlation to a higher risk of in-	Add
Demographics	hospital mortality. The comorbie World Health Organization in 19	dities are only available for centers contributing Problem Summary List ICD9/10 or Discharge ICD9/10 data. ICD-10 coding was initially developed by the 992, and the United States began requiring the use of ICD-10 coding October 1, 2015.	Next
Cases	· · · · · · · · · · · · · · · · · · ·		
Comorbidities	Elixhauser comorbidities 📀	any comorbidities +	
Diagnoses			
Procedures	Mode	• Keep only cases with these comorbidites	
Notes		Remove cases with these comorbidites	
Medications	Selection		
Physiologic		No elixnauser comorbidities have been selected	
Labs			
Outcomes			



Diagnoses

- Begin typing the desired diagnosis name (or associated ICD-9 and ICD-10 codes) into the Diagnosis Code field. ICD-10 codes were required as of October 1, 2015, therefore historical data may only include ICD-9 codes.
- If you are interested in capturing diagnosis data for a case that occurred before this date, please choose both ICD-9 and ICD-10 codes. Select the codes you desire, then click "Add Selected" (see next slide)



proses are derived from billing sources (administrative or professional billing) or the clinician-entered problem summary list. Clinician-entered problem lists use and ICD-10 codes. ICD-10 coding was initially developed by the World Health Organization in 1992, and the United States began requiring the use of ICD-10



[Search all sources]

✓ ICD-9 ✓ ICD-10 ✓ Include related ICD-9/ICD10

lupus	
1 item(s) selected	Add Selected
Top Result	
Systemic lupus erythematosus [710.0]	139402 times
Systemic lupus erythematosus, unspecified	114461 times
Glomerular disease in systemic lupus erythematosus <m32.14></m32.14>	24678 times
Discoid lupus erythematosus <l93.0></l93.0>	12203 times
	24 more
ICD9 Discharge Diagnoses	
Systemic lupus erythematosus [710.0]	139402 times
Lupus erythematosus [695.4]	7362 times
Discoid lupus erythematosus of eyelid [373.34]	35 times
ICD10 Discharge Diagnoses	
Systemic lupus erythematosus, unspecified <m32.9></m32.9>	114461 times
Glomerular disease in systemic lupus erythematosus <m32.14></m32.14>	24678 times
Discoid lupus erythematosus <l93.0></l93.0>	12203 times
Other organ or system involvement in systemic lupus erythematose <m32.19></m32.19>	US 7981 times
	21 more

¢



	✓ ICD-9 ✓ ICD-10 ✓ Include related ICD-9/ICD10	
Diagnosis code		0
or description		
Present on admission	any v 🕕	
Mode	Keep only cases with these diagnoses	
	 Remove cases with these diagnoses 	
Selection		
	Systemic lupus erythematosus	8
	ICD-9	8
	[710.0] Systemic lupus erythematosus	89
	[710.1] Systemic sclerosis	89
	[710.2] Sicca syndrome	8
	[710.3] Dermatomyositis	8
	[710.4] Polymyositis	8
	[710.5] Eosinophilia myalgia syndrome	8
	[710.8] Other specified diffuse diseases of connective tissue	•
	[710.9] Unspecified diffuse connective tissue disease	8
	ICD-10	8
	M32 10> Systemic lunus en/thematosus, organ or system involvement unspecifie	8
	<m32.95 erythematosus,="" lupus="" p="" systemic="" unspecified<=""></m32.95>	8
	<m32.1> CD(E)ST sundrame</m32.1>	ě
	<m34.12 cr(e)st="" syndrome<="" td=""><td>ă</td></m34.12>	ă
	<m34.9> Systemic scierosis, unspecified</m34.9>	00
	<m34.0> Progressive systemic sclerosis</m34.0>	
	<m34.89> Other systemic sclerosis</m34.89>	8
	<m35.01> Sicca syndrome with keratoconjunctivitis</m35.01>	83
	<m35.00> Sicca syndrome, unspecified</m35.00>	•
	<m33.09> Juvenile dermatopolymyositis with other organ involvement</m33.09>	•
	<m33.19> Other dermatopolymyositis with other organ involvement</m33.19>	•
	<m33.99> Dermatopolymyositis, unspecified with other organ involvement</m33.99>	8
	<m33.00> Juvenile dermatopolymyositis, organ involvement unspecified</m33.00>	•
	<m36.0> Dermato(poly)myositis in neoplastic disease</m36.0>	8
	<m33.10> Other dermatopolymyositis, organ involvement unspecified</m33.10>	8
	<m33.90> Dermatopolymyositis, unspecified, organ involvement unspecified</m33.90>	8
	<m21.80> Other specified acquired deformities of unspecified limb</m21.80>	8
	CM33 20> Polymyositis, organ involvement unspecified	
	xM32.202 Polymyositis, organ involvement unspecified xM32.202. Delymyositis with ether energy involvement.	ő
	<ivide in="" of="" sec<="" second="" state="" td="" the=""><td>8</td></ivide>	8
	<10135.8> Other specified systemic involvement of connective tissue	8
	<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>	8
	<m36.8> Systemic disorders of connective tissue in other diseases classified elsew</m36.8>	ere

- As you select a diagnosis code, the 'parent' ICD-9 and ICD-10 codes and the 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 "Keep only cases with these diagnoses" is the default selection.
- To exclude cases based on diagnosis code, choose "remove cases with these diagnoses." Click "Add" when finished.



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. To add an additional diagnosis, enter the second criteria in the search box and click *Enter*. (see next slide)

Diagnoses

Perioperative patient diagnoses are derived from billing sources (administrative or professional billing) or the clinician-entered problem summary list. Clinician-entered problems linked to ICD-9 and ICD-10 codes. ICD-10 coding was initially developed by the World Health Organization in 1992, and the United States began requiri coding October 1, 2015.

iagnosis Source	[Search all sources] +		
	✓ ICD-9 Ø ICD-10 Ø Include related ICD-9/ICD10		
iagnosis code	diabetes		
r description	0 item(s) selected	Add Selected	
esent on admission	Top Result		4
ode	Type 2 diabetes mellitus without complications <e11.9></e11.9>	2206637 times	11
lestien	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled [250.00]	1866664 times	L
lection	Type 2 diabetes mellitus with hyperglycemia <e11.65></e11.65>	560914 times	
	Type 2 diabetes mellitus with diabetic chronic kidney disease <e11.22></e11.22>	505190 times	H
		96 more	
	ICD9 Discharge Diagnoses		
	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled [250.00]	1866664 times	
	Diabetes mellitus without mention of complication, type II or unspecified type, uncontrolled [250.02]	191591 times	L
	Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled [250.60]	167169 times	U
	Polyneuropathy in diabetes [357.2]	156975 times	
		91 more	
	ICD10 Discharge Diagnoses		
	Type 2 diabetes mellitus without complications <e11.9></e11.9>	2206637 times	
	Type 2 diabetes mellitus with hyperglycemia <e11.65></e11.65>	560914 times	Ŧ
	<m35.5> Multifocal fibrosclerosis</m35.5>		
	<l87.1> Reactive perforating collagenosis</l87.1>		
	<m35.1> Other overlap syndromes</m35.1>		
	<m35.9> Systemic involvement of connective tissue, unspecifie</m35.9>	ed	
	<m36.8> Systemic disorders of connective tissue in other disea</m36.8>	ases classified els	ewhe
	ICD-9		
	[710.0] Systemic lupus erythematosus		
	[/10.1] Systemic sclerosis		
	[/10.2] Sicca syndrome		
	[710.3] Dermatomyositis		

- Select the desired codes again and click Add Selected.
- As before, 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). (see next slide)



SMPOG DataDirect				Brooke Szymanski Logout
tep 1: Define Project	Diagnoses		Lindate	Project
ep 2: Filter	Perioperative patient diagn problems linked to ICD-9 a	oses are derived from billing sources (administrative or professional billing) or the clinician-entered problem summary list. Clinician-entered problem lists use nd ICD-10 codes. ICD-10 coding was initially developed by the World Health Organization in 1992, and the United States began requiring the use of ICD-10	Next	Test Project ID: 2163
emographics	coding October 1, 2015.		Disable this filter	Query Mode: cohort Last updated on 10/11/2019
ases	Diagnosis Source	[Search all sources]	Doloto this filter	
omorbidities			Delete this litter	Cohort Size
iagnoses		☑ ICD-9 ☑ ICD-10 ☑ Include related ICD-9/ICD10		Start 12,210,067
ocedures	Diagnosis code	diabetes		Airtaichis
otes	or description			Demographics Gender: Female or Unknown
1edications	Present on admission	any 🔻 📵		Age: 20 years - 60 years
Physiologic	Mode	Keen only races with these diagnoses		BMI: 0.0 - 100.0 Institution: University of Michigan Health System
abs	mode	 Received and these diagnoses Remove cases with these diagnoses 		285,032 cases
 Jutcomes	Soloction			1 institutions
	Selection	ICD-10 😣		Cases Procedure Date: 01/01/2000 - 10/11/2019
ep 3: Choose Output		<m32.10> Systemic lupus erythematosus, organ or system involvement unspecified</m32.10>		Anesthesia time: 1 minute - 1440 minutes
ep 4: Finalize		<m32.9> Systemic lupus erythematosus, unspecified <m34.1> CR(FIST syndrome 8</m34.1></m32.9>		1 institutions
		<m34.9> Systemic sclerosis, unspecified</m34.9>		Diagnoses
		<m34.0> Progressive systemic sclerosis</m34.0>		diagnosis category: Clinical Problem Summary List
		<m34.89> Other systemic sclerosis</m34.89>		Billing
		<m35.01> Sicca syndrome with keratoconjunctivitis</m35.01>		present on admission: any
		<m35.00> Sicca synarome, unspecified</m35.00>		diagnosis type: none specified
				keep codes: M32.10 or M32.9 or M34.1 or M34.9
				or M34.0 or M34.89 or M35.01 or M35.00 or
		<m33.00> Juvenile dermatopolymyositis, organ involvement unspecified</m33.00>		or M33.10 or M33.19 or M33.99 or M33.00 or M36.0
		<m36.0> Dermato(poly)myositis in neoplastic disease</m36.0>		M33.29 or M35.8 or M35.5 or L87.1 or M35.1 or
		<td></td> <td>M35.9 or M36.8 or 710.0 or 710.1 or 710.2 or 710.3 or 710.4 or 710.5 or 710.8 or 710.9</td>		M35.9 or M36.8 or 710.0 or 710.1 or 710.2 or 710.3 or 710.4 or 710.5 or 710.8 or 710.9
		<m33.90> Dermatopolymyositis, unspecified, organ involvement unspecified</m33.90>		4,110 cases
		<m21.80> Other specified acquired deformities of unspecified limb</m21.80>		1 institutions
		<m33.20> Polymyositis, organ involvement unspecified</m33.20>		
		SMS3.252 Folymyostis with obtaine organi motorement.		
		<m35.5> Multifocal fibrosclerosisS</m35.5>		
		<l87.1> Reactive perforating collagenosis</l87.1>		
		<m35.1> Other overlap syndromes 😵</m35.1>		
		<m35.9> Systemic involvement of connective tissue, unspecified</m35.9>		
		<m36.8> Systemic disorders of connective tissue in other diseases classified elsewhere 3</m36.8>		
		ICD-9		
		(7100) Systemic rubus erythematosus		
		[110.1] Josefini Stellosis		
		[710.3] Dermatomyositis		
mail Support/Feedback		[710.4] Polymyositis		
				TCOMES GROUP -
ed: 5/24/202	2	Contact: support@mpog.zendesk.com		26
-, -, = = =		contact <u>supporte nipoBrendesidoni</u>		20

 As expected, by adding Diabetes to the filters through "OR" logic, the number of cases has increased as compared to the number of cases only including Lupus





Adding "AND" Logic

- 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 (see left).
- Click **Diagnoses**, enter Diabetes into the Diagnosis code field, and click Add Selected to create new, separate criteria.
- Follow the same steps as above to remove any "Child" criteria you would not like to include.





- 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 filter will appear as a separate Diagnosis filter on the right hand side (see left).



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Other Filters

- Continue to work through the filters on the left hand side and apply as necessary.
- 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.



Modifying selected filters

Cases Perioperative case characteristics from and reflect the information known at	n the clinical documentation and professional fee billing systems. Some patient chara the time of that case.	cteristics (ASA status) may change from one case to another Update & Next Skip & Next	Project ACQR Test Project ID: 2128 Query Mode: cohort Last updated on 9/18/2019
Procedure Date 💿	01/01/2018 to 01/01/2019	Disable this filter	Cohort Size
CPT Base Units 🔞	3 to 30	Delete this filter	Start 12,015,843 cases
Weekend Case 🥺		Alter making the	Demographies
Holiday Case 🔞	🖉 Yes 🕑 No	selection changes, click	Gender: Female or Unknown
ASA Status 🔞	🖉 ASA 1 🖉 ASA 2 🖉 ASA 3 🖉 ASA 4 🗆 ASA 5 🗆 ASA 6	'Update & Next' to apply	BMI: 0.0 - 100.0 Institution: University of Michigan Health System
Emergency Status 🕢		the filter.	285,028 cases 1 institutions
Admission Type 🕑	Inpatient Outpatient Other Unknown		Cases Procedure Date: 01/01/2018 - 01/01/2019 ASA Status: ASA 1 or ASA 2 or ASA 3 or ASA 4 Emergency Status: Yes Admission Type: Inpattent Aprethesia time: 1 minute - 1440 minutes
Case Duration	Anesthesia time I minute(s) to 1440 minute(s)		1,306 cases
Cardiac Case 🕡		Click the filter beeder that	Procedures < 10 cases
Anesthesia Technique General 🔞	If Yes If No	Click the filter header that	include: 01967 1 institutions
Anesthesia Technique LMA	✓ Yes ✓ No	you wish to modify on the	
Endotracheal Tube Used		'Project' results bar.	
Anesthesia Technique Neuraxial 🕖			
Anesthesia Technique Block 🔞			

Filtering Cases Summary

- Finalize all filters as prompted by the guided step-by-step process.
- As filters are added, counts for the cohort size will continue to refresh in realtime.
- Click directly on the filter headers to modify previously selected filters.
- Move on to Step 3 once filters are selected and cohort size seems plausible.



Step 3: Define Outputs

- Outputs are column headers for your downloadable Excel file.
- They are available on the left side of the screen.
- Choose the (+) to add an output.
- Final selection of outputs are listed on the right, some are defaults that can be removed as needed. (see next slide)



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BataDirect							John D	oe Logou t
Step 1: Define Project	Choose Output Items						Project	
Step 2: Filter	Now that you've choosen which cases will be included, you will need to	to define	whic	data elements will be returned in the result set.	Next		Mark's Super Amazi Query ID 12345 Created on 7/17/2019	ing Query
Step 3: Choose Output	Search Output Items			Cohort Size				
Chan & Finaliza	All Categories		▼				Start	11,594,452 case
Step 4: Finalize	Enter search keywords here						 All Patients	
	Available Output Items			Selected Output Items			Demographics Age > 18	2,864,021 case 7 institution
	Anesthesia Duration The difference between anesthesia start and end in minutes	?	+	Age The patient's age in years at the time of the procedure	?	х	Female 7 Selected Institutions	
	Anesthesia End The time of the last anesthesia end documented on the procedure	?	+	ASA Class (Merged) A merged, single value for the patient's ASA class	Options ?	х	Comorbidities Diabetes	290,351 case 5 institution
	Anesthesia Start The time of the first anesthesia start documented on the procedure	?	+	Admission Type E.g. outpatient, inpatient, observation	?	х	Output	
	Antiemetics Given Whether the patient was given antiemetics or not (yes/no)	?	+				Total Items Custom Elements	
	C A big by the second of							
Core Temperature Location Documented (yes/no) Core Temperature Location Documented (yes/no) Core Temperature Location Documented (yes/no) Core Temperature Location Documented (yes/no)								
	Import/datadrectmogrogressearcharg/Mail Proceded Inter Project Arrow that you've choosen which cases will be included, you will need to define which data elements will be returned in the result set Search Output Tems All Categories Enter search keywords here Available Output Items The difference between anesthesia start and end in minutes The time of the list anesthesia start documented on the procedure Ancesthesia End Ancesthesia End Ancesthesia Start Ansithe Output tems Baseline Blood Pressure The baseline blood pressure documented in preop Whether a core temp location was documented (yes/no) The baseline blood pressure documented (yes/no) Whether a core temp location was documented (yes/no) The baseline blood pressure documented (yes/no) The baseli							



DataDirect

Step 1: Define Project

Cohort Details

Review and Finalize

Here you can review your choices in detail and save documents relevant to your proposal.

Step 3: Choose Output

Step 4: Finalize

Project ID: 2319, Query Mode: Quality Report, Last updated on 11/6/2019

Filter	Cases	Patients	Institutions
Start	12,391,201	7,472,601	55
Demographics	5,101,576	3,331,001	55
Cases	3,125,693	2,189,990	49
Comorbidities	12,340	7,539	46
Diagnoses	1,430	769	33

Query Output Specification

Main Case This table contains data for Main Case		
Display Name	Source	Data Direct Category
MPOG_Case_ID	Collation Group: MPOG_Case_ID	Basic Elements
Institution	Institution Randomizer	Basic Elements
ASA Status	Collation Group: ASA Status Classification	Case Characteristics
Arrived Intubated	Collation Group: Arrived Intubated Classification	Case Characteristics
Anesthesia Technique Used: Block	Collation Group: Anesthesia Technique Block	Case Characteristics



Processing Complete: 1 Click here to download your results Project test 1 This query has already been submitted and cannot be modified Create a new query with the same settings **Cohort Size** Start 12,391,201 cases Demographics 💌 5.101.576 cases Cases 💌 3,125,693 cases Comorbidities 💽 12,340 cases Diagnoses 💽 1,430 cases + Final Counts by Institution

Step 4: Review and Finalize



• To see anonymized counts by institution, click on the icon to the right of the number to open a list.

Filter	Cases	Patients	Institutions	#	Patients
Start	12,391,201	7,472,601	55	1	248,596
Demographics	5 101 576	3 331 001	55 🗐	2	245,467
Demographics	5,101,570	5,551,001	DD Eq	3	190,003
Cases	3,125,693	2,189,990	49 📃	4	185,744
Comorbidities	12,340	7,539	46 📃	5	160,734
Diagnoses	1.430	769	33 🗐	6	159,312



Based on query mode, different options are available:

- **Download Docs:** Output is a "Query Specification", i.e. a document of the query itself (Quality Report Mode, Single Center Research Mode, Multi-Center Research Mode)
- **Download Data**: Output is your institution's data for the query for Quality Report Mode or Single-Center Research Mode (local sites only). *Note: for Multi-Center Research Mode, data queries are specified by the MPOG Central analyst team, and available to Researchers via a secure data enclave following PCRC approval*
- No download option (Cohort Only Mode)



Click Download Docs





BataDirect

ect Review and Finalize

Here you can review your choices in detail and save documents relevant to your proposal.

Cohort Details

Project ID: 2163 Query Mode: cohort Last updated on 10/11/2019

Table 1 - Main Case List

Filter	Cases	Patients	Institutions
Start	12,210,067	7,376,216	55
Demographics	285,032	151,949	1
Cases	283,840	151,651	1
Diagnoses	4,110	1,289	1
Diagnoses	4,110	1,289	1

Query Output Specification

Download Query Specification Documents

If you are finished editing your project and selecting your output items click 'Download Documents' below. Otherwise, click 'Cancel' to go back and make additional changes.

This table contains a single row for each cas	e in the researc		
Display Name	Source Download Documents		
MPOG_Case_ID	Collation (Cancel		
Institution	Institution kandomizer	basic Elements	
Anesthesia Technique Used: General	Collation Group: Anesthesia Technique G	eneralCase Characteristics	
Anesthesia Technique Used: Neuraxial	Collation Group: Anesthesia Technique	Case Characteristics	

Project

lest Project ID: 2163 Query Mode: Cohort Last updated on 10/11/2019

ohort Size

itart Ill Patients 12,210,067 case 55 institution

emographics

nder: Female or Unknown 2: 20 years - 60 years 11: 0.0 - 100.0 titution: University of Michigan Health System **285,032 cases** 1 institutions

ses

ocedure Date: 01/01/2000 - 10/11/2019 esthesia time: 1 minute - 1440 minutes **283,840 case**s

1 institutions

Diagnoses

Lagnosis category: Clinical Problem Summary List, rofessional Billing, Administrative Discharge filling iresent on admission: any iagnosis type: none specified sk1 status: none specified seep codes: M32.10 or M32.9 or M34.1 or M34.9 or M34.0 or M34.89 or M35.01 or M35.00 or

M33.09 or M33.19 or M33.99 or M33.00 or M36.0 r M33.10 or M33.90 or M21.80 or M33.20 or M33.29 or M35.8 or M35.5 or L87.1 or M35.1 or M35.9 or M36.8 or 710.0 or 710.1 or 710.2 or 10.3 or 710.4 or 710.5 or 710.8 or 710.9

110 cases Institutions

gnoses

Lagnosis category: Clinical Problem Summary List rofessional Billing, Administrative Discharge Alling Aresent on admission: any Hagnosis type: none specified Iss Istatus: none specified Reep codes:

110 cases nstitutions

• Download Docs will generate/auto download a zip file that contains 3 excel files

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Data Query Specification

• Upon downloading the "Query Specification" for a particular project, a summary of the data, and characteristics of the data queried, are available in spreadsheet form.



Data Summary

• Example of Excel file generated through DataDirect

				Query:	Specifications_2163.xlsx [Protected View] - Excel									- 6	
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163	MPOG Case ID	Value	uniqueidentifier		Collation Group: MROG_Case_ID	Basic Elements									
163	Institution	Value	varchar		Institution Bandomizer	Basic Elements									
163	Institution	MPOG Institution ID	numeric(18.0)		Institution Bandomizer	Basic Elements									
2163	Anesthesia Technique Used: General	Value	varchar	General anesthetic attempted operatively	Collation Group: Anesthesia Technique Used: General	Case Characteristics									
2163	Anesthesia Technique Used: General	Value Code	int	General anesthetic attempted operatively	Collation Group: Anesthesia Technique Used: General	Case Characteristics									
2163	Anesthesia Technique Used: General	LMA_yn	varchar	General anesthetic attempted operatively	Collation Group: Anesthesia Technique Used: General	Case Characteristics									
2163	Anesthesia Technique Used: Neuraxial	Value	varchar	Neuraxial block attempted perioperatively	Collation Group: Anesthesia Technique Used: Neuraxial	Case Characteristics									
2163	Anesthesia Technique Used: Neuraxial	Value_Code	int	Neuraxial block attempted perioperatively	Collation Group: Anesthesia Technique Used: Neuraxial	Case Characteristics									
163	Anesthesia Technique Used: Neuraxial	Spinal_yn	int	Neuraxial block attempted perioperatively	Collation Group: Anesthesia Technique Used: Neuraxial	Case Characteristics									
163	Anesthesia Technique Used: Neuraxial	Epidural_yn	int	Neuraxial block attempted perioperatively	Collation Group: Anesthesia Technique Used: Neuraxial	Case Characteristics									
	Query Specification ID- 2163	(+)			: •										

