

Data Review: Case Validation



Case Validation Overview

- Case validation is used along with Data Diagnostics (see Module: Data Review Data Diagnostics) to ensure data accuracy
- Ensures that the data extracted into MPOG matches the original EHR documentation utilizing the MPOG Case Validation application
- Allows for detection of data issues at an individual case level that may not be visible using data diagnostics
- Series of standard questions are used to validate case information



Case Validation Overview

- A variety of cases should be sampled
 - For example, if your institution has cardiac surgery, orthopedic surgery, obstetrics/gynecologic surgery, vascular surgery, and transplant surgery, then you should review a case for every service
- Emergent cases should be validated as the data for an emergent case may not always extract in the same way a scheduled case does.
- After a few months, you may see trends in issues with mapping.



Case Validation Overview

- Based upon initial review and with help from an MPOG Informatics Specialist, you will decide how to select future cases for review.
- For example, you may find that there is a trend in issues with mapping for cardiac procedures. In this case, you will want to place emphasis on reviewing cardiac cases for a few months until the data issue is resolved.



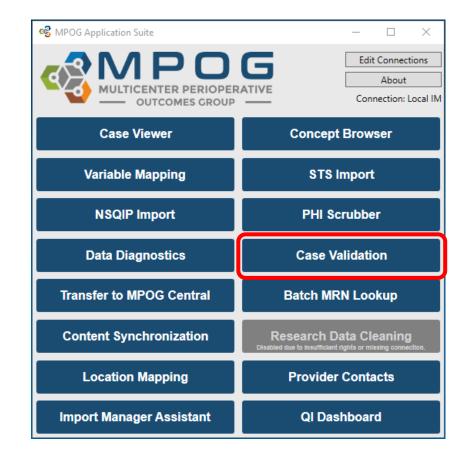
Requirements

- All sites are required to validate a minimum of 5 cases per month prior to uploading to MPOG Central each month
- All historical data should be validated with a minimum of 5 case validations completed per month of data
- MPOG requires review of at least 5 cases per month of data for 12 months prior to initial MPOG Central upload



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Accessing Case Validation



MULTICENTER PERIOPERATIVE OUTCOMES GROUP

Case Validation App

- The left side of window displays 4 options for how you can select and open a case.
- The right side of the window displays the number of cases that have been reviewed historically for each month.
- Green indicates that the required number of cases per month have been reviewed.

🚭 Case Validation				_		\times
Pick case by MRN and	d date		2022-05		0/5	,
Patient MRN			2022-04		5/5	
Date of Operation	5/6/2022	15	2022-03		5/5	
O Pick case by case ID			2022-02		5/5	
MPOG Case ID			2022-01		5/5	
Pick random unreview	ved case		2021-12		5/5	
			2021-11		1/5	
Time Period	05/01/2022	0/5 ~	2021-10		5/5	
Service Type	(Any)	Ŷ	2021-09		10 / 5	
			2021-08		10/5	
Location		¥	2021-07		10/5	
 Pick already reviewed 	case		2021-06		10/5	
Reviewed Cases		\sim	2021-05		11/5	
Validate Case				Review Saved Va	alidation	_



Pick a Case for Review

• 4 Options

- Pick case by MRN and date
- Pick case by MPOG case ID
- Pick random unreviewed case
- Pick already reviewed case

🚭 Case Validation			_		\times
Pick case by MRN and	l date	2022-05		0/5	^
Patient MRN		2022-04		5/5	
Date of Operation	5/6/2022	2022-03		5/5	
 Pick case by case ID 	<u></u>	2022-02		5/5	
MPOG Case ID		2022-01		5/5	
	•	2021-12		5/5	
 Pick random unreview 	ved case	2021-11		1/5	
Time Period	05/01/2022 0 / 5 🗸	2021-10		5/5	
Service Type	(Any) v	2021-09		10/5	
		2021-08		10/5	
Location	~	2021-07		10 / 5	
O Pick already reviewed	case	2021-06		10/5	
Reviewed Cases	~	2021-05		11/5	
					Ť
Validate Case			Review Saved V	alidation	



Pick a Case for Review: Select by MRN and Date

- Click the dial next to "Pick case by MRN and date." Both MRN and Date of Operation are required for this type of case selection method. Click "Validate Case"
 - Date is displayed in MM/DD/YYYY format
- The Case Validation screen should display. You would typically verify that the patient MRN & Date of Operation are the same as the case you were initially trying to select and then begin case validation.

Pick case by MRN and	d date		2022-05	0/5
Patient MRN			2022-04	5/5
Date of Operation	5/6/2022	15	2022-03	5/5
 Pick case by case ID 			2022-02	5/5
MPOG Case ID			2022-01	5/5
Pick random unreview	wed care		2021-12	5/5
	ved case		2021-11	1/5
Time Period	05/01/2022	0/5 ~	2021-10	5/5
Service Type	(Any)	~	2021-09	10/5
	-		2021-08	10/5
Location		~	2021-07	10/5
 Pick already reviewed 	l case		2021-06	10/5
Reviewed Cases		~	2021-05	11/5



Pick a Case for Review: Select by Case ID

- Click the dial next to "Pick case by case ID." Enter MPOG Case ID. Click "Verify Case"
- The Case Validation screen should display. Typically, you would verify that the MPOG Case ID is the same as the case you were initially trying to select and then begin case validation.

🚭 Case Validation			—	×
\bigcirc Pick case by MRN an	d date	2022-05	0/5	^
Patient MRN		2022-04	5/5	
Date of Operation	5/6/2022	2022-03	5 / 5	
• Pick case by case ID		2022-02	5/5	
MPOG Case ID	0000000-0000-0000-0000-0000000000000000	2022-01	5/5	
Pick random unreview	wed case	2021-12	5 / 5	
	weu case	2021-11	1/5	
Time Period	05/01/2022 0 / 5 v	2021-10	5/5	
Service Type	(Any)	2021-09	10 / 5	
		2021-08	10 / 5	
Location	Ý	2021-07	10 / 5	
O Pick already reviewed	d case	2021-06	10 / 5	
Reviewed Cases	v	2021-05	11 / 5	
				~
Validate Case			Review Saved Validation	



Pick a Case for Review: Pick random unreviewed case

• Click the dial next to "Pick random unreviewed case.

Pick case by MRN and date 2022-05 0 / 5 Patient MRN 2022-04 5 / 5 Date of Operation 5 / 6 / 2022 5 / 5 Pick case by case ID 00000000-0000-0000-000000000000 2022-02 5 / 5 MPOG Case ID 00000000-0000-0000-0000-000000000000 2022-01 5 / 5 Pick random unreviewed case 2021-12 5 / 5 Time Period 05 / 01 / 2022 0 / 5 2021-10 5 / 5 Service Type (Any) 2021-08 10 / 5 2021-07 10 / 5 Location 0 2021-06 10 / 5 2021-05 11 / 5 Validate Case Validate Case 0 11 / 5 2021-05 11 / 5	😋 Case Validation				—	\times
Date of Operation 5/6/2022 Date of Operation 5/6/2022 Pick case by case ID 00000000-0000-0000-000000000000 MPOG Case ID 00000000-0000-0000-0000000000000 Pick random unreviewed case 2022-01 Time Period 05/01/2022 0 / 5 × Service Type (Any) × Location × 2021-08 Pick already reviewed case 10 / 5 Reviewed Cases ×	O Pick case by MRN and	d date		2022-05	0/5	^
Date of operation 0.000000 Pick case by case ID 00000000-0000-0000-000000000000 MPOG Case ID 00000000-0000-0000-000000000000 Pick random unreviewed case 2021-12 Time Period 05/01/2022 0 / 5 × Service Type (Any) v Location v 2021-09 Pick already reviewed case 0 / 5 Reviewed Cases v	Patient MRN			2022-04	5/5	
O Pick case by case ID 00000000-0000-0000-000000000000 MPOG Case ID 00000000-0000-0000-000000000000 Pick random unreviewed case 2021-12 Time Period 05/01/2022 0 / 5 × Service Type (Any) v Location v 2021-09 10 / 5 Pick already reviewed case v 2021-07 10 / 5 Reviewed Cases v 2021-05 11 / 5	Date of Operation	5/6/2022	15	2022-03	5/5	
MPOG Case ID 0000000-0000-0000-0000-00000000000000	O Pick case by case ID		,	2022-02	5 / 5	
Pick random unreviewed case 2021-12 5 / 5 Time Period 05/01/2022 0 / 5 2021-11 1 / 5 Service Type (Any) v 2021-09 10 / 5 Location v 2021-07 10 / 5 Pick already reviewed case v 2021-05 11 / 5	MPOG Case ID	0000000-0000-0000	-0000-0000000000000	2022-01	5/5	
Time Period 05/01/2022 0 / 5 2021-11 1 / 5 Service Type (Any) v 2021-09 10 / 5 Location v 2021-08 10 / 5 Pick already reviewed case 2021-07 10 / 5 Reviewed Cases v 2021-05 11 / 5				2021-12	5/5	
Service Type (Any) 2021-09 10 / 5 Location 2021-08 10 / 5 Pick already reviewed case 2021-06 10 / 5 Reviewed Cases 2021-05 11 / 5	 Pick random unreview 	ved case		2021-11	1/5	
Service Type (Any) 2021-08 10 / 5 Location 2021-07 10 / 5 2021-06 10 / 5 Pick already reviewed case 2021-06 10 / 5 2021-05 11 / 5 Reviewed Cases	Time Period	05/01/2022	0/5 ~	2021-10	5/5	
Location 2021-08 10 / 5 Pick already reviewed case 2021-07 10 / 5 Reviewed Cases 2021-06 10 / 5	Service Type	(Any)	~	2021-09	10 / 5	
O Pick already reviewed case 2021-07 10 / 5 Reviewed Cases 2021-05 11 / 5				2021-08	10 / 5	
Reviewed Cases	Location		~	2021-07	10 / 5	
Reviewed Cases	 Pick already reviewed 	case		2021-06	10 / 5	
Validate Case Review Saved Validation	Reviewed Cases		~	2021-05	11/5	
Validate Case Review Saved Validation						\vee
	Validate Case				Review Saved Validation	



Pick a Case for Review: Pick random unreviewed case

- Choose the date range
- The Time Period is in MM/DD/YYYY format. Even though it only shows the 1st day of the month, it reflects the entire month shown.
 - For example, 05/01/2022 represents cases from May 1, 2022-May 31, 2022

ổ Case Validation					- 0		×
Pick case by MRN and	date			2022-05	0,	/ 5	1
Patient MRN				2022-04	5 ,	/ 5	ı
Date of Operation	5/6/2022	15	1	2022-03	5 ,	/ 5	i
Pick case by case ID				2022-02	5,	/ 5	
	0000000-0000-0000	-0000-00000000000000		2022-01	5,	/ 5	
inii oo case ib				2021-12	5 /	/ 5	i I
Pick random unreview	ed case			2021-11	1,	/ 5	1
Time Period	05/01/2022	0/5 ~		2021-10	5,	/ 5	d
Service Type	05/01/2022	0/5 ^		2021-09	10 /	/ 5	
Service Type	04/01/2022	5 / 5	L	2021-08	10 /	/ 5	i.
Location	03/01/2022	5/5	L.				
	02/01/2022	5 / 5	Ł	2021-07	10 /		
 Pick already reviewed 	01/01/2022	5 / 5	L	2021-06	10 /	/ 5	
Reviewed Cases	12/01/2021	5 / 5	L	2021-05	11,	/ 5	
Neviewed Cases	11/01/2021	1/5	Į.				1
Validate Case	10/01/2021	5 / 5	L		Review Saved Validat	ion	
	09/01/2021	10 / 5	L				
	08/01/2021	10 / 5					
	07/01/2021	10 / 5					
	06/01/2021	10 / 5					
	05/01/2021	11/5					
	04/01/2021	10 / 5					
	03/01/2021	10 / 5 🗸					



Pick a Case for Review: Pick random unreviewed case

- Select a surgical service from the dropdown menu
- MPOG recommends selecting cases from different service types each month to validate all variables are reflecting local documentation.

🚭 Case Validation				- 0	\times
O Pick case by MRN and	date	2022-05		0/	5
Patient MRN		2022-04		5/	5
	5 (5 (2000)	2022-03		5/	5
Date of Operation	5/6/2022				_
 Pick case by case ID 		2022-02		5 /	5
MPOG Case ID	0000000-0000-0000-000000000000000000000	2022-01		5/	5
		2021-12		5/	5
 Pick random unreview 	ed case	2021-11		1/	5
Time Period	05/01/2022 0 / 5 ~	2021-10		5/	5
Service Type	(Any) ~	2021-09		10 /	5
	(Any)	Reviewed:	0 Total:	1422 ^/	5
Location	Cardiac	Reviewed:	0 Total:	35 /	5
	Colorectal	Reviewed:	0 Total:	3	-
 Pick already reviewed 	Dentistry	Reviewed:	0 Total:	4 🖊	.
Reviewed Cases	General	Reviewed:	0 Total:	24 /	5
Reviewed Cases	Medical - cardiology	Reviewed:	0 Total:	60	
	Medical - gastroenterology	Reviewed:	0 Total:	67	
Validate Case	Medical - hematology/oncology	Reviewed:	0 Total:	18 ^{tic}	n
	Medical - pulmonology	Reviewed:	0 Total:	3	
	Neurosurgery	Reviewed:	0 Total:	42	
	Obstetrics	Reviewed:	0 Total:	1	
	Obstetrics / Gynecology	Reviewed:	0 Total:	69	
	Ophthalmology	Reviewed:	0 Total:	155	
	Oral / Maxillofacial	Reviewed:	0 Total:	17	
	Orthopedics	Reviewed:	0 Total:	95	
	Otolaryngology	Reviewed:	0 Total:	107	
	Pediatric Cardiac Surgery	Reviewed:	0 Total:	13	
	Pediatric Gastroenterology	Reviewed:	0 Total:	20 ~	



Pick a Case for Review: Pick random unreviewed case

- Optional: select a location from the dropdown menu
 - This will allow you to validate cases at different locations based on your location mapping and will be especially helpful for institutions that have more than one site on the same instance of Import Manager.
 - Location Mapping must be completed before this filter is available (see Module: Getting Started - Location Mapping).
- Select "Validate Case" at the bottom of the screen

🍕 Case Validation				-		×			
O Pick case by MRN and	date		2022-05		0/5	^			
Patient MRN			2022-04		5/5				
Date of Operation	5/6/2022		2022-03		5/5				
 Pick case by case ID 			2022-02		5/5				
MPOG Case ID	0000000-0000-0000-0000-0000000000000000		2022-01		5/5				
Pick random unreview	- 4		2021-12		5/5				
 Pick random unreview 	ed case		2021-11		1/5				
Time Period	05/01/2022 0 / 5 ×		2021-10		5/5				
Service Type	(Any) v		2021-09		10 / 5				
			2021-08		10 / 5				
Location	~		2021-07		10 / 5				
O Pick already reviewed	University of Michigan Health System					Reviewed:	0	Total:	1421
0	Ambulatory Care					Reviewed:	0		408
Reviewed Cases	Briarwood Medical Group					Reviewed:		Total:	6
	Brighton Health Center					Reviewed:	-	Total:	125
Validate Case	East Ann Arbor Health and	Ger	riatrics Center			Reviewed:	0		139
	Kellogg Eye Center				Reviewed:	-	Total:	138	
	Livonia Health Center					Reviewed:	-	Total:	0
	Ann Arbor - Main					Reviewed:			1013
	C. S. Mott Children's Hospi					Reviewed:	0		281
	Comprehensive Cancer Cer		ORs			Reviewed:	0		0
	Frankel Cardiovascular Center					Reviewed:	0		127
	University Hospital					Reviewed:	-	Total:	546
	Von Voigtlander Women's	Hos	pital			Reviewed:	0	Total:	59



Pick a Case for Review: Picking an Already Reviewed Case

- Click the dial next to "Pick an already reviewed case."
- Select a case from the dropdown menu. The date of operation and procedure type will display.
- Select "Validate Case" at the bottom of the screen.
- The Case Validation screen should display. At this point, you would verify that the case selected matches the case type that displays in the validator and begin case validation.

🚭 Case Validation			>	×			
O Pick case by MRN and	i date	2022-05	0/5	/			
Patient MRN		2022-04	5/5				
Date of Operation	5/6/2022	2022-03	5/5				
Pick case by case ID		2022-02	5/5				
MPOG Case ID	0000000-0000-0000-0000-0000000000000000	2022-01	5/5				
 Pick random unreview 	ved case	2021-12	5/5				
- -		2021-11	1/5				
Time Period	05/01/2022 0 / 5 🗸	2021-10	5/5				
Service Type	(Any) v	2021-09	10 / 5				
Location		2021-08	10 / 5				
	· · ·	2021-07	10 / 5				
 Pick already reviewed 	case	2021-06	10 / 5				
Reviewed Cases	v	2021-05	11/5				
Validate Case	01/12/2015 LEFT HARDWARE REMOVAL TIBI	A OR FIBULA		^			
	01/13/2015 LAPAROSCOPIC TOTAL COLECTO	MY WITH ENDORECTAL PULL	THROUGH				
	01/19/2015 MIDLINE BRONCHOSCOPY - RIG MIDLINE TRACHEOSTOM MIDLINE BRONCHOSCOPY - FLE						
	01/19/2015 RIGHT URETEROSCOPY WITH LA RIGHT CYSTOSCOPY WITH URET						
01/22/2015 MIDLINE MYELOMENINGOCELE REPAI MIDLINE MYELOMENINGOCELE REPAIR							
02/05/2015 BILATERAL BRONCHOSCOPY - FLEXIBLE							
	02/11/2015 LEFT WIRE LOCALIZATION BREAST BIOPSY						



- Select a case using one of the previously described options
- The Case Validation questionnaire will display. For this training, PHI has been removed.

📽 MPOG Case Validation Utility				>
Case Lookup Information Patient MRN:	Сору	Open Case in		
Date of Operation: MPOG Case ID:		MPOG Case View	er	
Questions for Validation				
Case Information No Time Restriction		Add com	nments he	ere
Was the patient's name	Correct Incorrect			
Was the patient's age at the time of operation 32 years?	Correct Incorrect			
s the admission type correctly mapped as 'Inpatient'?	Correct Incorrect			
Was the ASA physical status of the patient 'ASA 2E'?	Correct Incorrect			
s the following procedure description correct? UNKNOWN C-SECTION	Correct Incorrect			
Was this procedure performed in procedure room 'LD-OR 03'?	Correct Incorrect			
Are the following tags correct for procedure room 'LD-OR 03'? Facility type - Acute care hospital Facility Type - Children's Hospital OB-GYN - Obstetric operating room	Correct Incorrect			
s the primary procedure service correctly mapped as 'Obstetrics / Gynecology'?	Correct Incorrect			
Did this patient receive regional or neuraxial anesthesia (with or without general anesthesia)?	Correct Incorrect			
Preop From 4 Hours Before Anesthesia Star	t to Anesthesia Start	Add com	nments he	ere
Was this patient transferred to the OR from a location other than preop?	Correct Incorrect			
Perioperative Times From 4 Hours Before Anesthesia Star	t to Anesthesia End + 6 Hours	Add com	nments he	ere
Was anesthesia start at	1 Correct 🗌 Incorrect			
Was surgical incision at	1 Correct 🗌 Incorrect			
Was Phase I Recovery Room In Date/Time at	1 Correct 🗌 Incorrect			
Was anesthesia end at	Correct Incorrect			



- Tooltips are available by hovering over the <a>[3]. Tooltips provide more information regarding which concepts the question uses
 - The Labs section looks for hematocrit and glucose results only.

Θ	Postop Medications	From Patient Out of Room to Anesthesia End	Scans labs for one of the following of 3415:POC - Blood gas - Hct measured	concepts:	ments here
Did	the patient recieve no medications dur	ing this time period?	3435:POC - hematocrit spun 3450:POC - Coulter counter - Hemato		
Θ	Labs	From Day Before to Day After	5006:Formal Lab - Hematocrit 5038:Formal Lab - Blood gas - Hct m		ments here
Was	there no hemoglobin or hematocrit lal	o taken during this time?	Correct Incorrect		1
Was	there no glucose lab taken during this	time?	Correct Incorrect		
Sa	ve As Image		Save A	Answers	Cancel



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- You must answer every question with 'Correct' or 'Incorrect' unless there is no data in which case the row for the question is highlighted in red.
- Compare questions against EHR. Please add comments as needed to explain any discrepancies.
- For issues that need follow- up from the site technical team or coordinating center, the "Save As Image" button is available to save a screenshot of the case. PHI will automatically be eliminated from the screenshot.
- A window will display asking you to save the image. The MPOG Case ID will automatically populate the File Name. Choose a file location where you will be able to access again. Click 'Save'

File name:	MPOG CASE ID WILL POPULATE HERE.png	
ave as type:	: [Image files (*.png)	
Folders	Save	Cancel



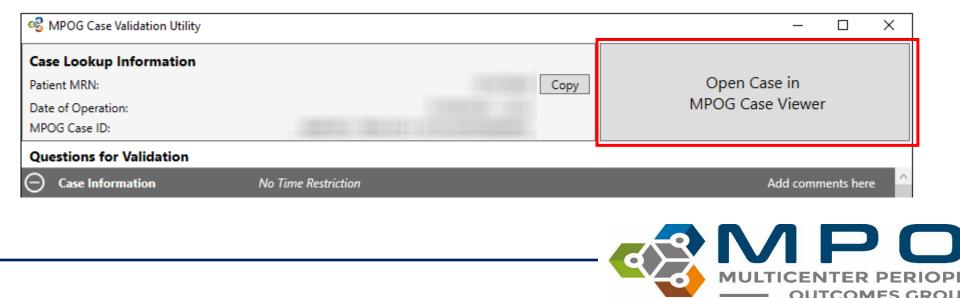
- May need 3-4 programs open at a time to verify the data in the MPOG case validator "matches" the information present in the hospital Anesthesia Information Management System (AIMS)
- It is recommended reviewers have 2 monitors/screens available for use
- Most likely will need intra-op record open on one screen and the MPOG case validator on the other
- The source of truth varies per institution depending on the electronic documenting system

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- For example: At the University of Michigan Health System, multiple systems are used for case validation:
 - Centricity contains the Intra-op record, Anesthesia H&P, Case details.
 - Epic: Inpatient record, used for validation preop medications and admission status
 - Carelink: Previous EHR used for validating cases pre-dating Epic implementation.



- It may be useful to open the Case Viewer within the MPOG Suite to assist in the case review.
- To access from the Case Validation Utility screen, click on the 'Open Case in MPOG Case Viewer' tab at the top right hand of the screen. For further details on the Case Viewer, refer to the module Data Review: Case Viewer.



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- If a case is missing information in the MPOG database for any reason, the case validator will highlight the row for that question in red and will gray out the correct/incorrect checkboxes.
- If multiple cases seem to be missing the same type of data, note the MPOG case IDs. This can indicate an extract issue or a documentation issue- discuss with the MPOG Informatics Specialist to identify next steps. See example below.

Is the admission type correctly mapped as 'Ir	npatient?	🔄 Yes 📋 No	
Was the ASA physical status of the patient 'N	IOT FOUND'?	Yes No	
Is the following procedure description correc ESOPHAGOGASTRODUODENOSCO	t? PY WITH FOREIGN BODY REMOVAL	Yes No	
Was this procedure performed in procedure	room 'M-PR 01'?	🗌 Yes 📃 No	
Are the following tags correct for procedure Facility type - Acute care hospital Other - Mixed use operating room Other - Pediatric Service specific room - Endoscopy	room 'M-PR 01'?	🗌 Yes 🗌 No	
Is the primary procedure service correctly ma	apped as 'Medical - gastroenterology'?	🗌 Yes 📃 No	
🗇 Ргеор	No Time Restriction		Add comments here
Nothing found			
Perioperative Times	No Time Restriction		Add comments here
Was anesthesia start at 'NOT FOUND'?		Yes No	
Was surgical incision at 'NOT FOUND'?		Yes No	
Was the patient transferred somewhere other	r than the recovery room?	🗌 Yes 🗌 No	
Was anesthesia end at 'NOT FOUND'?		Yes No	
 Intraop Staff 	No Time Restriction		Add comments here



- After all questions are answered for the selected case, click the "Save Answers" button in the bottom right corner of the screen.
- Once the case has been submitted, there is no way to go back and make changes to the form.
- Once the case is open, you must complete it as the information will not be saved if the case is closed before submitting.

🕞 Labs	From Day Before to Day After		Add cor	mments here
Was the hematocrit 35.300 at 2021-10-21	10:58?	Correct Incorrect		
Was the glucose 106 at 2021-10-21 10:58?		Correct Incorrect		~
Save As Image			Save Answers	Cancel



This will automatically save and update the monthly count for cases reviewed in the 'Overall Progress' section as seen below.

Pick a case for review				23
Use the following options	to pick a case to review	Overall Progress		1
Pick case by MRN and	l date	2016-03	0 / 20	Â
Detient MDNI		2016-02	20 / 20	Ε
Patient MRN		2016-01	21 / 20	
Date of Operation	3/24/2016	15 2015-12	20 / 20	
Pick case by case ID		2015-11	20 / 20	
MIROS C. ID	00000000 0000 0000 0000 0000	2015-10	20 / 20	
MPOG Case ID	0000000-0000-0000-0000-0000	2015-09	20 / 20	
Pick random unreview	ved case	2015-08	20 / 20	



 To review a summary of past case validations, use the "Review Saved Validation" button. First, click the month that you want to see. Then, click "Review Saved Validation

🚭 Case Validation			- 🗆 ×
O Pick case by MRN and	l date	2022-05	0/5
Patient MRN		2022-04	5/5
Date of Operation	5/6/2022	2022-03	5 / 5
• Pick case by case ID		2022-02	5/5
MPOG Case ID	0000000-0000-0000-000000000000000000000	2022-01	5/5
 Pick random unreview 	ved case	2021-12	5/5
0		2021-11	1/5
Time Period	05/01/2022 0 / 5	2021-10	5/5
Service Type	(Any)	2021-09	10 / 5
		2021-08	10 / 5
Location		2021-07	10 / 5
 Pick already reviewed 	case	2021-06	10 / 5
Reviewed Cases	· · · · · · · · · · · · · · · · · · ·		11/5
Validate Case			Review Saved Validation



 This screen will appear with a summary of the case validation questions and counts of the number of cases that month that had the question answered "No" and the number of cases with comments. A column is available to show who reviewed the case as well.

	Hide	passing questions				[Hide passing que
Question	No / Missing	Comment	Date Reviewed	Question	Response	Comment Rev	viewer MPOG Case
Patient Name		^	05-16-2019 12:17	Was there 1 anesthesiology CRNA(s) that signed into this case?	Yes		_
Fatient Name			05-16-2019 12:28	Was there 1 anesthesiology CRNA(s) that signed into this case?	Yes		_
Procedure Name	1	1	05-16-2019 12:32	Was there 1 anesthesiology CRNA(s) that signed into this case?	Yes	_	_
riocodare rianie			05-16-2019 12:54	Was there 1 anesthesiology CRNA(s) that signed into this case?	No Yes	2	_
Random Fluid Dose	1		05-16-2019 01:14	Was there 0 anesthesiology CRNA(s) that signed into this case? Was there 2 anesthesiology CRNA(s) that signed into this case?	Yes		-
			05-16-2019 01:20	Was there 1 anesthesiology CRNA(s) that signed into this case?	Yes		-
Room Tags	6		06-10-2019 03:18		Yes		-
			06-10-2019 03:30	Was there 1 anesthesiology CRNA(s) that signed into this case?	Yes		
Staff Present: Attending			06-10-2019 03:41	Was there 1 anesthesiology CRNA(s) that signed into this case?	Yes		_
Staff Present: CRNA	1	1					
Staff Present: Resident							
Surgical Service Mapping		- 1					
Time: Anes End	1						
Time: Anes Start	1						
Time: Medication Given (First)	1	1					
Time: Medication Given (Last)	1						
Time: Surgical Incision	1						



	🗌 Hide	passing questions					Hide passing question
Question	No / Missing	Comment	Date Reviewed	Question	Response	Comment	Reviewer MPOG Case ID
Patient Name		^	05-16-2019 12:17	Was there 1 anesthesiology CRNA(s) that signed into this case?	Yes		c3ed06f2-1761
Fatient Name			05-16-2019 12:28		Yes		f5ec06f2-1761-
Procedure Name	1	1 🗖		Was there 1 anesthesiology CRNA(s) that signed into this case?	Yes		4f4c774e-ef55-
		· · L	05-16-2019 12:54	Was there 1 anesthesiology CRNA(s) that signed into this case?	No Yes	2	95db38bb-015c f72d86fa-b861-
Random Fluid Dose	1		05-16-2019 01:14		Yes		a14c774e-ef55-
			05-16-2019 01:20		Yes		c072d09a-a665
Room Tags	6		06-10-2019 03:18		Yes		b664923e-cb68
			06-10-2019 03:30		Yes		dec79878-b85
Staff Present: Attending			06-10-2019 03:41		Yes		a24b774e-ef55
Staff Present: CRNA	1	1					
Staff Present: Resident							
Surgical Service Mapping		- 1					
Time: Anes End	1						
Time: Anes Start	1						
Time: Medication Given (First)	1	1					
Time: Medication Given (Last)	1						
Time: Surgical Incision							

- Clicking on a question will bring up more information on the case validation answers for each case.
- You can use this screen to find cases with "No" answers for further review. To hide the "Yes" answers, click "Hide passing questions."
- Double-click on any MPOG Case ID to open the case in Case Viewer.
- Look for trends in issues, such as date of the case. This can be helpful when identifying issues with the data.



Case Validation Tips

- If you are validating a case on a patient who is older than 90 years old, answer 'Correct' to the question 'Was the patient's age at the time of operation 90 years?'
 - MPOG cuts age off at 90 years old to decrease the chance that the patient could be identified, since most of the patients are younger than 90.
- The questions under the labs section are looking for only hemoglobin, hematocrit, and glucose labs from the day before through the day after the procedure. It will not look at any other labs during this time frame.



Case Validation Tips

- Why does the date and time of operation show up as 01/01/0000 00:00?
 - The data for this case has not yet finished handoff. You can either choose another case to validate or save the MPOG Case ID and try to validate the case again in a few days after handoff is complete. Check Import Manager Assistant to assess the handoff queue (see Module: Data Review – IM Assistant.
- If you are validating a case that does not have an incision time (i.e., Labor epidural), you will see 'Was surgical incision NOT FOUND' and the line highlighted in red. This is expected and you can skip the question.
 - If you expect to see an incision time and it is highlighted red, it may not have completed handoff. Review Import Manager Assistant to verify if handoff is complete.
 - If handoff is complete, review Import Manager Assistant for missing days and contact your local Technical Support person to help troubleshoot. Contact the MPOG help desk (<u>support@mpog.zendesk.com</u>) if further assistance is needed

MULTICENTER PERIOPERAT OUTCOMES GROUP

Case Validation Tips

• How does MPOG determine if a medication is a bolus or an infusion?

- This is determined by site documentation, but the medications that MPOG typically expects to see as boluses or infusions are listed in the table below.
- If an end time is not populated, infusion dose will continue until the start time of the next administration for the same medication. If an end time is not populated and there is not an additional administration, the infusion will continue until anesthesia end time. If the infusion start time is after anesthesia end, the end time will default to 5 minutes after infusion start.

Bolus	Infusion
Medications given via the following routes: SQ, PO, IM, ID	Any medications administered via IV infusion (i.e., heparin, insulin, propofol)
Medications given via IV push (i.e., versed, fentanyl, labetalol, morphine, ondansetron, rocuronium)	Typically documented with start/end times with rate (ie: ml/hr, mg/kg/min)
Antibiotics (including vancomycin and other antibiotics that are given over a longer period of time may be considered boluses)	

