



# 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

# Accessing Case Validation



# 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.

Month	Reviewed Cases
2025-08	0 / 5
2025-07	5 / 5
2025-06	5 / 5
2025-05	5 / 5
2025-04	5 / 5
2025-03	5 / 5
2025-02	5 / 5
2025-01	5 / 5
2024-12	5 / 5
2024-11	10 / 5
2024-10	10 / 5
2024-09	5 / 5
2024-08	5 / 5

# 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 Selection Method	Field(s)
<input checked="" type="radio"/> Pick case by MRN and date	Patient MRN, Date of Operation (8/21/2025)
<input type="radio"/> Pick case by case ID	MPOG Case ID
<input type="radio"/> Pick random unreviewed case	Time Period (2025/08, 0 / 5), Service Type (Any), Location
<input type="radio"/> Pick already reviewed case	Reviewed Cases

Date	Review Count
2025-08	0 / 5
2025-07	5 / 5
2025-06	5 / 5
2025-05	5 / 5
2025-04	5 / 5
2025-03	5 / 5
2025-02	5 / 5
2025-01	5 / 5
2024-12	5 / 5
2024-11	10 / 5
2024-10	10 / 5
2024-09	5 / 5
2024-08	5 / 5



# 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.

Case Validation

☒ Pick case by MRN and date

Patient MRN

Date of Operation

☐ Pick case by case ID

MPOG Case ID

☐ Pick random unreviewed case

Time Period  0 / 5

Service Type

Location

☐ Pick already reviewed case

Reviewed Cases

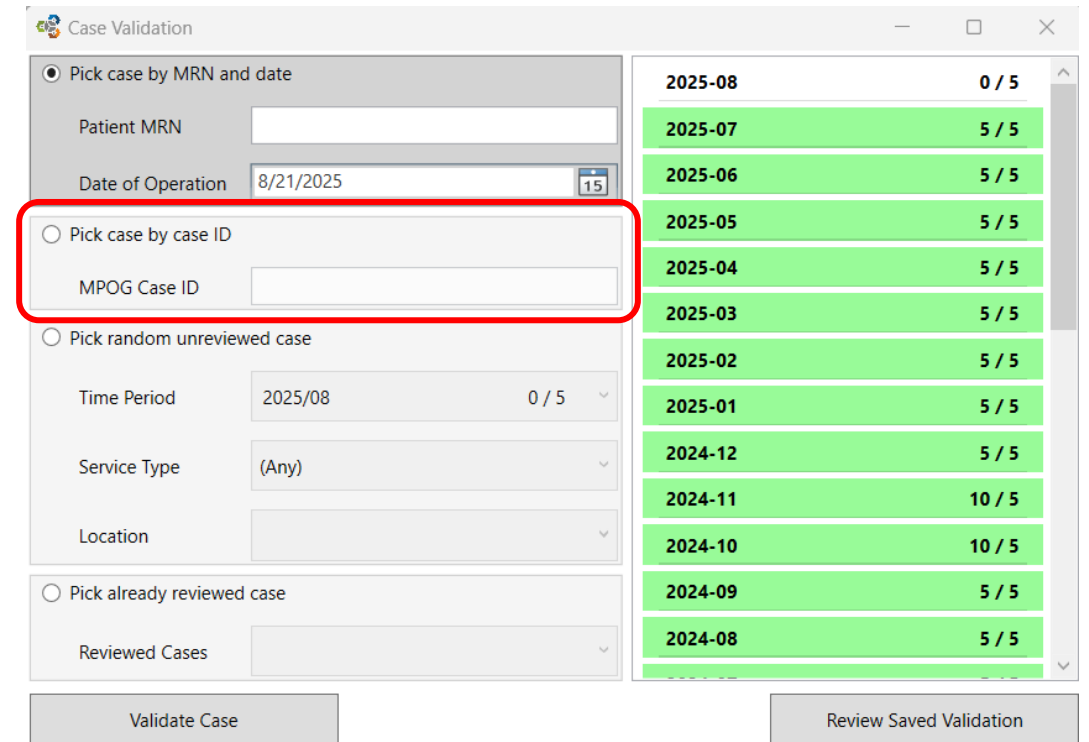
Validate Case

Review Saved Validation

2025-08	0 / 5
2025-07	5 / 5
2025-06	5 / 5
2025-05	5 / 5
2025-04	5 / 5
2025-03	5 / 5
2025-02	5 / 5
2025-01	5 / 5
2024-12	5 / 5
2024-11	10 / 5
2024-10	10 / 5
2024-09	5 / 5
2024-08	5 / 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

☒ Pick case by MRN and date

Patient MRN

Date of Operation 8/21/2025

☐ Pick case by case ID

MPOG Case ID

☐ Pick random unreviewed case

Time Period 2025/08 0 / 5

Service Type (Any)

Location

☐ Pick already reviewed case

Reviewed Cases

Validate Case

Review Saved Validation

2025-08	0 / 5
2025-07	5 / 5
2025-06	5 / 5
2025-05	5 / 5
2025-04	5 / 5
2025-03	5 / 5
2025-02	5 / 5
2025-01	5 / 5
2024-12	5 / 5
2024-11	10 / 5
2024-10	10 / 5
2024-09	5 / 5
2024-08	5 / 5

# Pick a Case for Review: Pick random unreviewed case

- Click the dial next to “Pick random unreviewed case.”
  - Date is displayed in YYYY/MM format

Case Validation

☒ Pick case by MRN and date

Patient MRN

Date of Operation

☐ Pick case by case ID

MPOG Case ID

☐ Pick random unreviewed case

Time Period  0 / 5

Service Type

Location

☐ Pick already reviewed case

Reviewed Cases

Validate Case

Review Saved Validation

2025-08	0 / 5
2025-07	5 / 5
2025-06	5 / 5
2025-05	5 / 5
2025-04	5 / 5
2025-03	5 / 5
2025-02	5 / 5
2025-01	5 / 5
2024-12	5 / 5
2024-11	10 / 5
2024-10	10 / 5
2024-09	5 / 5
2024-08	5 / 5

# Pick a Case for Review: Pick random unreviewed case

- Choose the date range
- The Time Period is in YYYY/MM format, and it reflects the entire month shown.
  - For example, 2025/08 represents cases from August 1, 2025-August 31, 2025

Month	Status
2025-08	0 / 5
2025-07	5 / 5
2025-06	5 / 5
2025-05	5 / 5
2025-04	5 / 5
2025-03	5 / 5
2025-02	5 / 5
2025-01	5 / 5
2024-12	5 / 5
2024-11	10 / 5
2024-10	10 / 5
2024-09	5 / 5
2024-08	5 / 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**

☐ Pick case by MRN and date

Patient MRN

Date of Operation

☐ Pick case by case ID

MPOG Case ID

☒ Pick random unreviewed case

Time Period  0 / 5

Service Type

Location

☐ Pick already reviewed

Reviewed Cases

Month	Reviewed	Total
2025-08	0	5
2025-07	5	5
2025-06	5	5
2025-05	5	5
2025-04	5	5
2025-03	5	5
2025-02	5	5
2025-01	5	5
2024-12	5	5

Location	Reviewed	Total
(Any)	0	4708
Anesthesiology	0	34
Cardiac	0	90
Colorectal	0	32
Dentistry	0	23
General	0	186
Medical - cardiology	0	266
Medical - gastroenterology	0	1044
Medical - other	0	9
Medical - pulmonology	0	56
Neurosurgery	0	122
Nuclear Medicine	0	8
Obstetrics / Gynecology	0	315
Ophthalmology	0	443

# 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**

☐ Pick case by MRN and date

Patient MRN:

Date of Operation:

☐ Pick case by case ID

MPOG Case ID:

☒ Pick random unreviewed case

Time Period:  0 / 5

Service Type:

Location:

☐ Pick already reviewed

Reviewed Cases:

2025-08	0 / 5
2025-07	5 / 5
2025-06	5 / 5
2025-05	5 / 5
2025-04	5 / 5
2025-03	5 / 5
2025-02	5 / 5
2025-01	5 / 5
2024-12	5 / 5
2024-11	10 / 5
2024-10	10 / 5

University of Michigan Health	Reviewed:	0	Total:	4665
University of Michigan Health - Ann Arbor - Epic (Any Location)	Reviewed:	0	Total:	4708
East	Reviewed:	0	Total:	4665
Briarwood Medical Group	Reviewed:	0	Total:	33
Brighton Health Center	Reviewed:	0	Total:	433
East Ann Arbor Health and Geriatric Center	Reviewed:	0	Total:	519
Kellogg Eye Center	Reviewed:	0	Total:	355
Livonia Health Center	Reviewed:	0	Total:	0
University of Michigan Medical Center	Reviewed:	0	Total:	3325
CS Mott Children's Hospital	Reviewed:	0	Total:	893
Mott Cath Lab	Reviewed:	0	Total:	54
Mott IR	Reviewed:	0	Total:	20
Mott NORA	Reviewed:	0	Total:	1
Mott ORs	Reviewed:	0	Total:	733

# 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**

☐ Pick case by MRN and date

Patient MRN

Date of Operation

☐ Pick case by case ID

MPOG Case ID

☐ Pick random unreviewed case

Time Period  0 / 5

Service Type

Location

☒ Pick already reviewed case

Reviewed Cases

2023/03/23 3rd time redo Aortic Valve Repair or Replacement (Midline)

2023/04/11 ERCP WITH ANESTHESIA

2023/04/14 Flexible bronchoscopy with tracheal biopsy and flexible esophagoscopy (Midline); DIRECT LARYNGOSCOPY AND BRONCHOSCOPY with tracheal biopsy (Midline); REVISION OF CENTRAL NECK DISSECTION AND MEDIASTINAL RESECTION WITH POSSIBLE ANSA NERVE GRAFT AND STERNOTOMY OR VASTS APPROACH (TBD in OR)

2023/04/21 Craniotomy for Tumor Resection with Stealth, possible lumbar drain, possible ventriculostomy, as indicated (Left)

2023/04/24 Microvascular Decompression (Right)

2023/04/28 1. Extraction of full bony impacted teeth 1, 16, 17, and 32 2. Exploration of right mandibular bone cyst (Multiple Sites)

2023/05/02 Right Total Hip Arthroplasty (Right)

2023/05/08 COLONOSCOPY WITH ANESTHESIA

2025-08	0 / 5
2025-07	5 / 5
2025-06	5 / 5
2025-05	5 / 5
2025-04	5 / 5
2025-03	5 / 5
2025-02	5 / 5
2025-01	5 / 5
2024-12	5 / 5
2024-11	10 / 5
2024-10	10 / 5
2024-09	5 / 5
2024-08	5 / 5



# Case Validation

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

The screenshot shows the 'MPOG Case Validation Utility' window. It has a header bar with the title and window controls. Below the header, there's a 'Case Lookup Information' section with fields for 'Patient MRN:', 'Date of Operation:', and 'MPOG Case ID:', each followed by a 'Copy' button. To the right of this section is a button labeled 'Open Case in MPOG Case Viewer'. Below the lookup section is the 'Questions for Validation' section, which is divided into three main categories: 'Case Information', 'Preop', and 'Perioperative Times'. Each category has a sub-header indicating the time restriction for the questions. The 'Case Information' section has a sub-header 'No Time Restriction' and contains 10 questions with 'Correct' and 'Incorrect' checkboxes. The 'Preop' section has a sub-header 'From 4 Hours Before Anesthesia Start to Anesthesia Start' and contains 1 question. The 'Perioperative Times' section has a sub-header 'From 4 Hours Before Anesthesia Start to Anesthesia End + 6 Hours' and contains 4 questions. At the bottom of the window are three buttons: 'Save As Image', 'Save Answers', and 'Cancel'.


Case Information	No Time Restriction	Add comments here
Was the patient's name	<input type="checkbox"/> Correct <input type="checkbox"/> Incorrect	
Was the patient's age at the time of operation 32 years?	<input type="checkbox"/> Correct <input type="checkbox"/> Incorrect	
Is the admission type correctly mapped as 'Inpatient'?	<input type="checkbox"/> Correct <input type="checkbox"/> Incorrect	
Was the ASA physical status of the patient 'ASA 2E'?	<input type="checkbox"/> Correct <input type="checkbox"/> Incorrect	
Is the following procedure description correct? UNKNOWN C-SECTION	<input type="checkbox"/> Correct <input type="checkbox"/> Incorrect	
Was this procedure performed in procedure room 'LD-OR 03'?	<input type="checkbox"/> Correct <input type="checkbox"/> 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	<input type="checkbox"/> Correct <input type="checkbox"/> Incorrect	
Is the primary procedure service correctly mapped as 'Obstetrics / Gynecology'?	<input type="checkbox"/> Correct <input type="checkbox"/> Incorrect	
Did this patient receive regional or neuraxial anesthesia (with or without general anesthesia)?	<input type="checkbox"/> Correct <input type="checkbox"/> Incorrect	

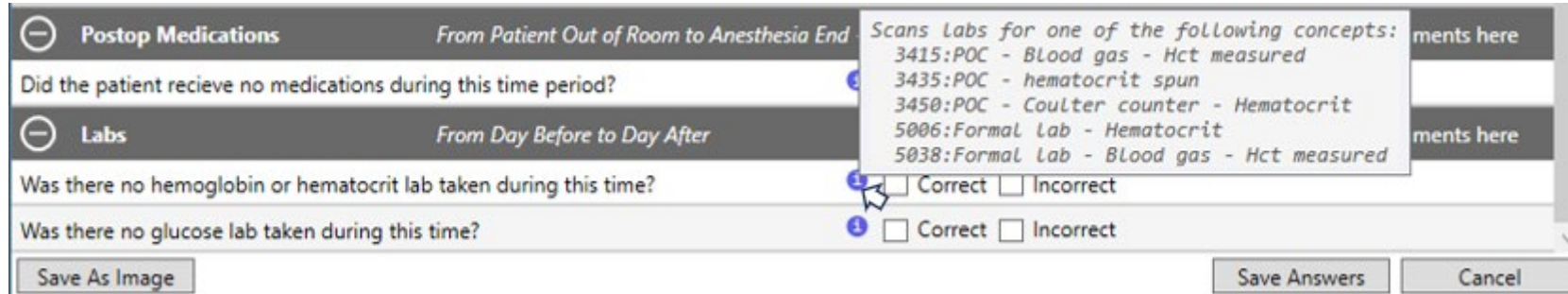
Preop	From 4 Hours Before Anesthesia Start to Anesthesia Start	Add comments here
Was this patient transferred to the OR from a location other than preop?	<input type="checkbox"/> Correct <input type="checkbox"/> Incorrect	

Perioperative Times	From 4 Hours Before Anesthesia Start to Anesthesia End + 6 Hours	Add comments here
Was anesthesia start at	<input type="checkbox"/> Correct <input type="checkbox"/> Incorrect	
Was surgical incision at	<input type="checkbox"/> Correct <input type="checkbox"/> Incorrect	
Was Phase I Recovery Room In Date/Time at	<input type="checkbox"/> Correct <input type="checkbox"/> Incorrect	
Was anesthesia end at	<input type="checkbox"/> Correct <input type="checkbox"/> Incorrect	



# Case Validation

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



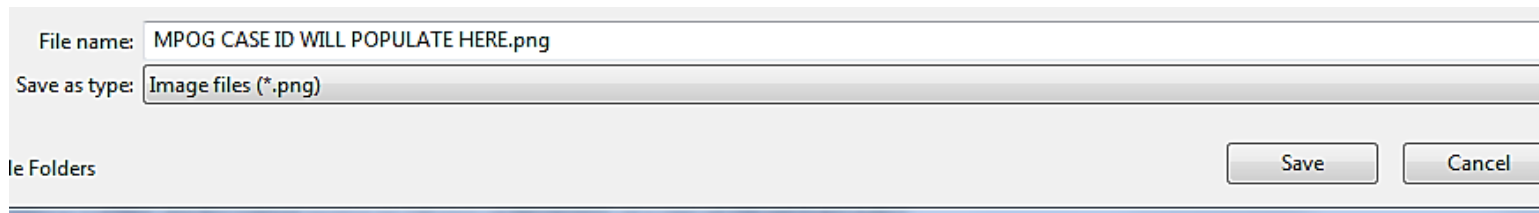
The screenshot displays a web-based form for case validation. It features two main sections: 'Postop Medications' and 'Labs'. The 'Labs' section contains two questions: 'Was there no hemoglobin or hematocrit lab taken during this time?' and 'Was there no glucose lab taken during this time?'. Each question has a corresponding 'Correct' and 'Incorrect' checkbox. A tooltip is visible, hovering over the 'Labs' section, providing a list of concepts scanned for: '3415:POC - Blood gas - Hct measured', '3435:POC - hematocrit spun', '3450:POC - Coulter counter - Hematocrit', '5006:Formal Lab - Hematocrit', and '5038:Formal Lab - Blood gas - Hct measured'. The form also includes 'Save As Image', 'Save Answers', and 'Cancel' buttons.

Section	Time Period	Question	Correct	Incorrect
Postop Medications	From Patient Out of Room to Anesthesia End	Did the patient receive no medications during this time period?	<input type="checkbox"/>	<input type="checkbox"/>
Labs	From Day Before to Day After	Was there no hemoglobin or hematocrit lab taken during this time?	<input type="checkbox"/>	<input type="checkbox"/>
Labs	From Day Before to Day After	Was there no glucose lab taken during this time?	<input type="checkbox"/>	<input type="checkbox"/>

Save As Image      Save Answers      Cancel

# Case Validation

- 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'



# Case Validation

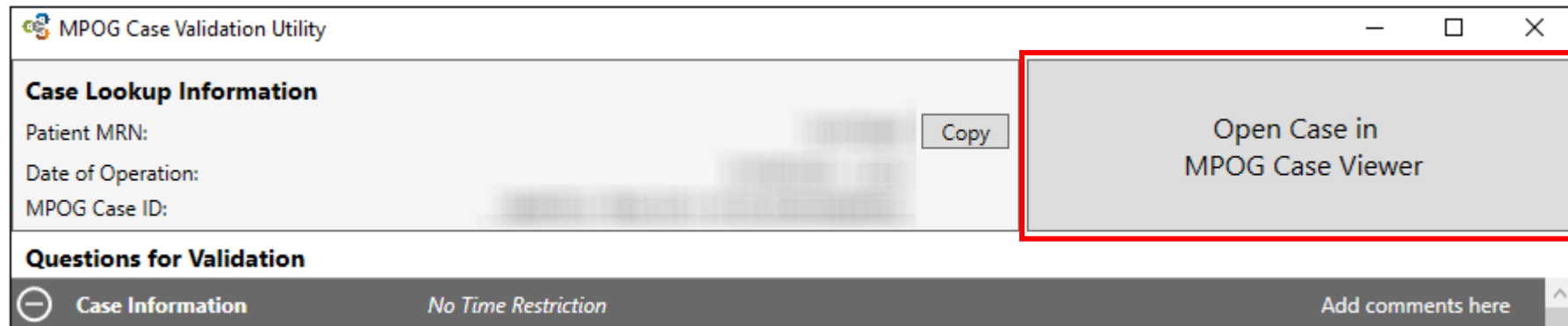
- May need 3-4 programs open at a time to verify the data in the MPOG case validator “matches” the information present in the hospital Anesthesia Information Management System (AIMS)
- It is recommended reviewers have 2 monitors/screens available for use
- Most likely will need intra-op record open on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

# Case Validation

- 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.

# Case Validation

- 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.



**MPOG Case Validation Utility**

**Case Lookup Information**

Patient MRN: [blurred]

Date of Operation: [blurred]

MPOG Case ID: [blurred]

**Open Case in MPOG Case Viewer**

**Questions for Validation**

☐ Case Information *No Time Restriction*

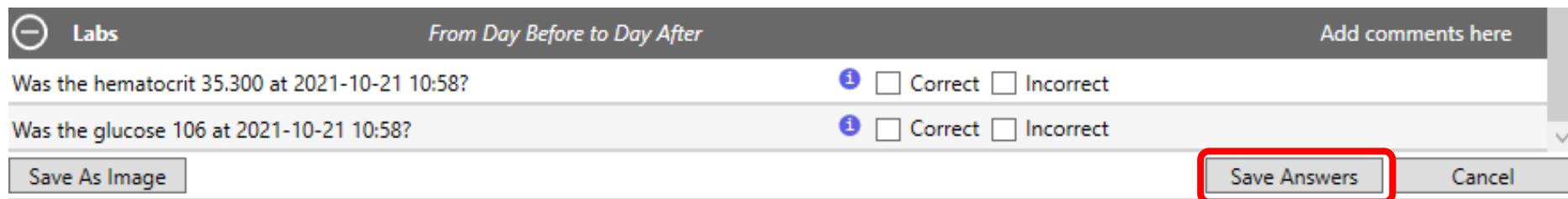
# Case Validation

- 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 'Inpatient'?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Was the ASA physical status of the patient 'NOT FOUND'?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is the following procedure description correct? ESOPHAGOGASTRODUODENOSCOPY WITH FOREIGN BODY REMOVAL	<input type="checkbox"/> Yes <input type="checkbox"/> No
Was this procedure performed in procedure room 'M-PR 01'?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the following tags correct for procedure room 'M-PR 01'? Facility type - Acute care hospital Other - Mixed use operating room Other - Pediatric Service specific room - Endoscopy	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is the primary procedure service correctly mapped as 'Medical - gastroenterology'?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Preop</b> No Time Restriction Add comments here	
Nothing found	
<b>Perioperative Times</b> No Time Restriction Add comments here	
Was anesthesia start at 'NOT FOUND'?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Was surgical incision at 'NOT FOUND'?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Was the patient transferred somewhere other than the recovery room?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Was anesthesia end at 'NOT FOUND'?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Intraop Staff</b> No Time Restriction Add comments here	

# Case Validation

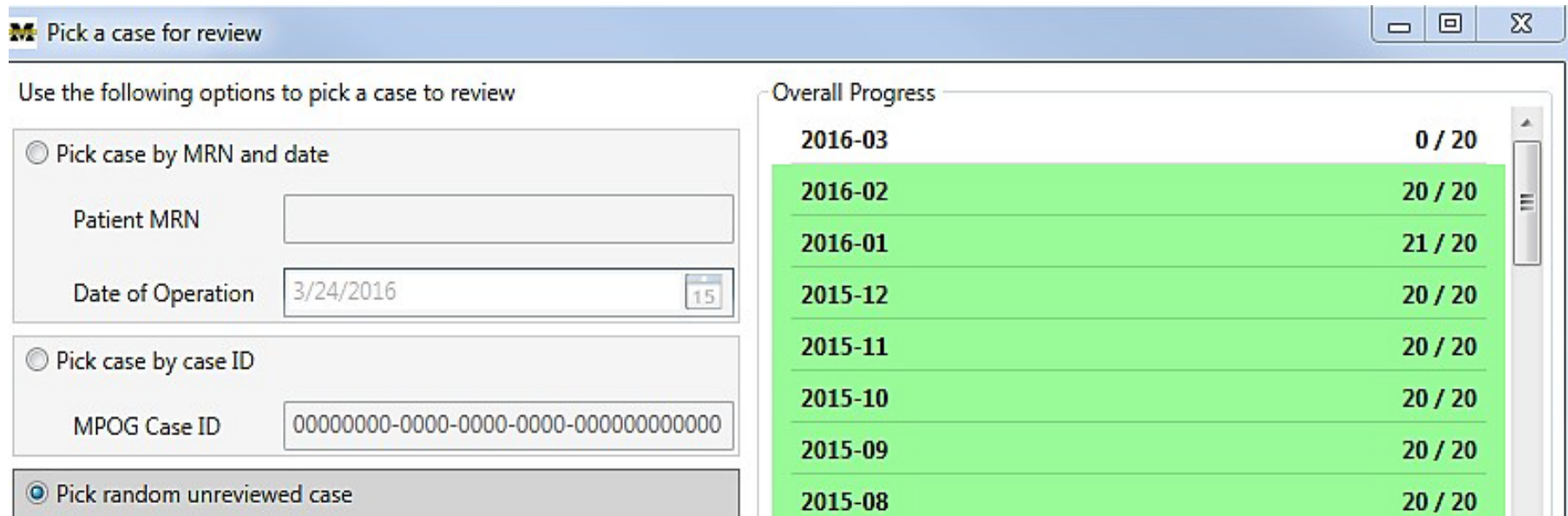
- After all questions are answered for the selected case, click the “Save Answers” button in the bottom right corner of the screen.
- Once the case has been submitted, there is no way to go back and make changes to the form.
- Once the case is open, you must complete it as the information will not be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



The screenshot shows a user interface for case validation. At the top, there is a header bar with a back arrow, the word "Labs", the text "From Day Before to Day After", and "Add comments here". Below the header, there are two questions, each with an information icon, a "Correct" checkbox, and an "Incorrect" checkbox. The first question is "Was the hematocrit 35.300 at 2021-10-21 10:58?". The second question is "Was the glucose 106 at 2021-10-21 10:58?". At the bottom left, there is a "Save As Image" button. At the bottom right, there are two buttons: "Save Answers" (highlighted with a red box) and "Cancel".

# Case Validation

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**

Use the following options to pick a case to review

☐ Pick case by MRN and date

Patient MRN

Date of Operation

☐ Pick case by case ID

MPOG Case ID

☒ Pick random unreviewed case

**Overall Progress**

2016-03	0 / 20
2016-02	20 / 20
2016-01	21 / 20
2015-12	20 / 20
2015-11	20 / 20
2015-10	20 / 20
2015-09	20 / 20
2015-08	20 / 20



# Case Validation

- 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

The screenshot shows a web application window titled "Case Validation". It contains three main sections for selecting a case:

- Pick case by MRN and date:** Includes fields for "Patient MRN" and "Date of Operation" (set to 8/21/2025).
- Pick case by case ID:** Includes a field for "MPOG Case ID".
- Pick random unreviewed case:** Includes dropdowns for "Time Period" (2025/08), "Service Type" (Any), and "Location".

Below these sections is a radio button for **Pick already reviewed case**, which is selected. It includes a "Reviewed Cases" dropdown.

At the bottom left is a "Validate Case" button. At the bottom right is a "Review Saved Validation" button, which is highlighted with a red box.

On the right side of the window is a list of months with their corresponding validation counts:

Month	Count
2025-08	0 / 5
2025-07	5 / 5
2025-06	5 / 5
2025-05	5 / 5
2025-04	5 / 5
2025-03	5 / 5
2025-02	5 / 5
2025-01	5 / 5
2024-12	5 / 5
2024-11	10 / 5
2024-10	10 / 5
2024-09	5 / 5
2024-08	5 / 5

- 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.

Validation for the month of 04-2019			Validation for the month of 04-2019					
			Hide passing questions					
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			
Procedure Name	1	1	05-16-2019 12:28	Was there 1 anesthesiology CRNA(s) that signed into this case?	Yes			
Random Fluid Dose	1		05-16-2019 12:32	Was there 1 anesthesiology CRNA(s) that signed into this case?	Yes			
Room Tags	6		05-16-2019 12:54	Was there 1 anesthesiology CRNA(s) that signed into this case?	No	2		
Staff Present: Attending			05-16-2019 01:14	Was there 0 anesthesiology CRNA(s) that signed into this case?	Yes			
Staff Present: CRNA	1	1	05-16-2019 01:17	Was there 2 anesthesiology CRNA(s) that signed into this case?	Yes			
Staff Present: Resident			05-16-2019 01:20	Was there 1 anesthesiology CRNA(s) that signed into this case?	Yes			
Surgical Service Mapping			06-10-2019 03:18	Was there 0 anesthesiology CRNA(s) that signed into this case?	Yes			
Time: Anes End	1		06-10-2019 03:30	Was there 1 anesthesiology CRNA(s) that signed into this case?	Yes			
Time: Anes Start	1		06-10-2019 03:41	Was there 1 anesthesiology CRNA(s) that signed into this case?	Yes			
Time: Medication Given (First)	1	1						
Time: Medication Given (Last)	1							
Time: Surgical Incision	1							

Validation for the month of 04-2019

☐ Hide passing questions

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-e1
Procedure Name	1	1	05-16-2019 12:28	Was there 1 anesthesiology CRNA(s) that signed into this case?	Yes			f5ec06f2-1761-e9
Random Fluid Dose	1		05-16-2019 12:32	Was there 1 anesthesiology CRNA(s) that signed into this case?	Yes			4f4c774e-ef55-e9
Room Tags	6		05-16-2019 12:54	Was there 1 anesthesiology CRNA(s) that signed into this case?	No	2		95db38bb-015d-d
Staff Present: Attending			05-16-2019 01:14	Was there 0 anesthesiology CRNA(s) that signed into this case?	Yes			f72d86fa-b861-e5
Staff Present: CRNA	1	1	05-16-2019 01:17	Was there 2 anesthesiology CRNA(s) that signed into this case?	Yes			a14c774e-ef55-e5
Staff Present: Resident			05-16-2019 01:20	Was there 1 anesthesiology CRNA(s) that signed into this case?	Yes			c072d09a-a665-e
Surgical Service Mapping			06-10-2019 03:18	Was there 0 anesthesiology CRNA(s) that signed into this case?	Yes			b664923e-cb68-e
Time: Anes End	1		06-10-2019 03:30	Was there 1 anesthesiology CRNA(s) that signed into this case?	Yes			dec79878-b856-e
Time: Anes Start	1		06-10-2019 03:41	Was there 1 anesthesiology CRNA(s) that signed into this case?	Yes			a24b774e-ef55-e1
Time: Medication Given (First)	1	1						
Time: Medication Given (Last)	1							
Time: Surgical Incision	1							

- 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 ([support@mpog.zendesk.com](mailto:support@mpog.zendesk.com)) if further assistance is needed

# 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)	