

Chapter 7.1 Case Validation: Selection Options

Getting started:

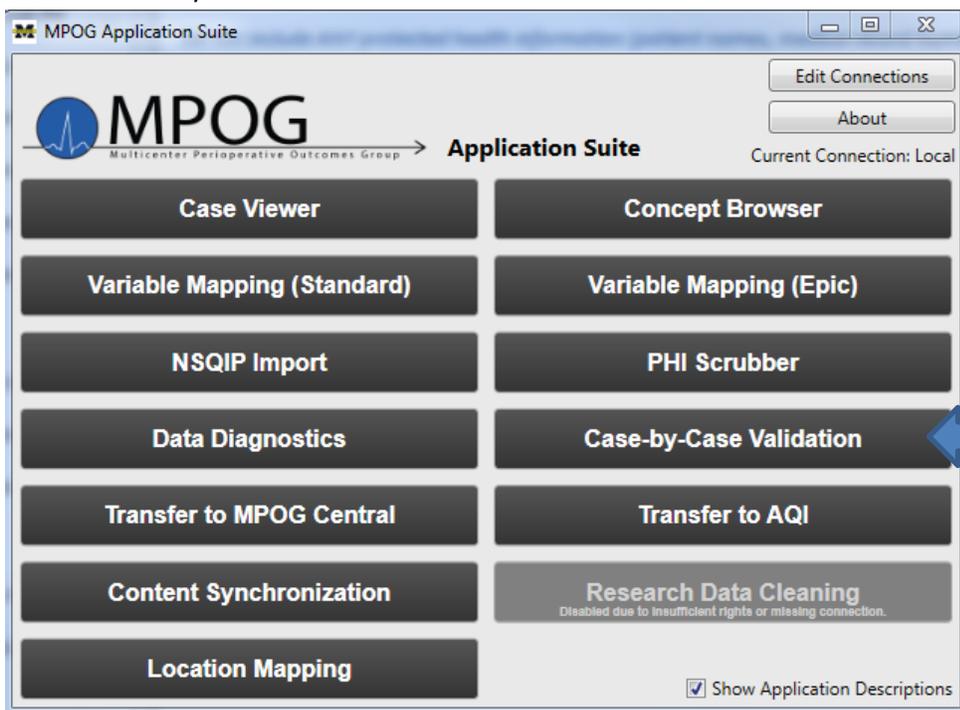
1. Open the MPOG Application Suite.
(For instructions on how to download, see 'Chapter 1: Downloading and Accessing the MPOG Suite.')



*** Note:** Check here to verify you are on the local connection.

(If not, click on "Edit Connections" and select the 'local' option under Selected Profile. Click the 'Apply and Restart' button to continue.)

2. Click on 'Case-by-Case Validation.'



3. The screen should look like this:

Month	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
2015-07	20 / 20
2015-06	20 / 20
2015-05	20 / 20
2015-04	20 / 20
2015-03	20 / 20
2015-02	20 / 20
2015-01	20 / 20
2014-12	0 / 20

The right side of this image shows the overall progress of your reviewing per date.

Green indicates that at least 20 cases per month have been reviewed.

The left side of this image displays 4 options for how you can select and open a case.

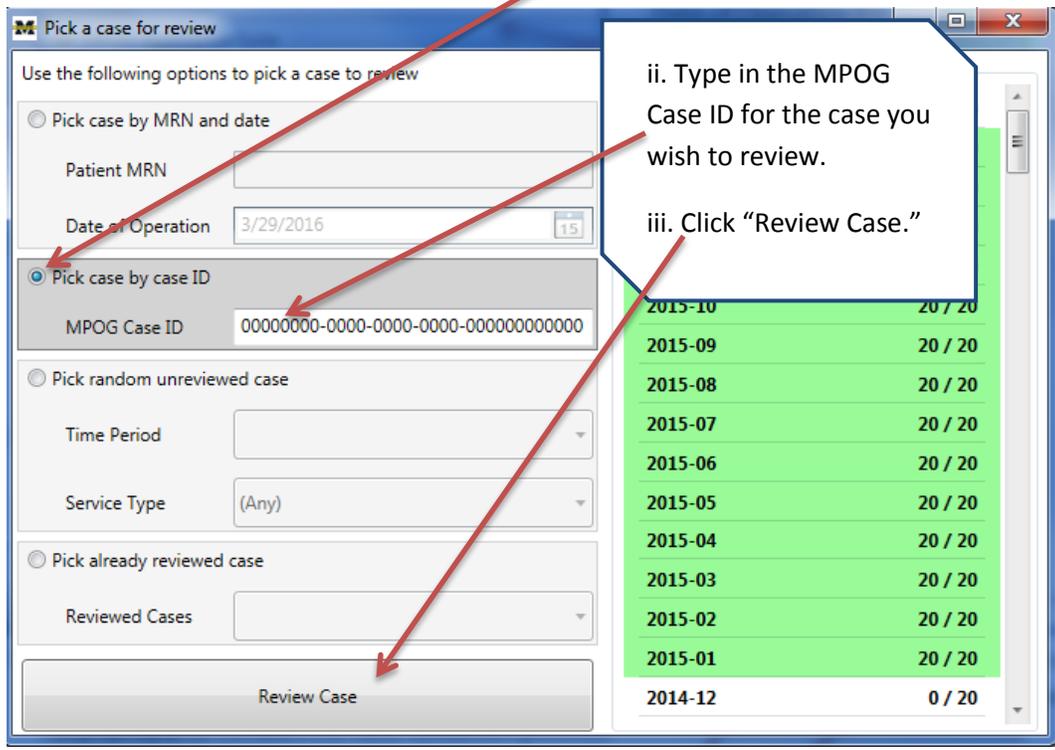
4. There are 4 options to select from. This section will explain how to use each option.
- A. Pick case by MRN and date
 - B. Pick case by case ID
 - C. Pick random unreviewed case
 - D. Pick already reviewed case

For the purpose of the monthly required case validation, it is suggested that you review and validate a good sample of cases per service. For example, if your institution has cardiac surgery, orthopedics surgery, OB GYN surgery, vascular surgery, and transplant surgery, then you should review a case for every service. It is also a good idea to validate an emergent case. **We require review of 20 cases per month.** After a few months, you may see trends in issues with mapping. Based upon initial review, you with help from the ASPIRE QI Coordinator and the site QI Champion will decide how to select future cases for review. For example, you might find that there is a trend of issues with mapping in the cardiac cases, so you will want to place emphasis on reviewing cardiac cases for a few months or as needed.

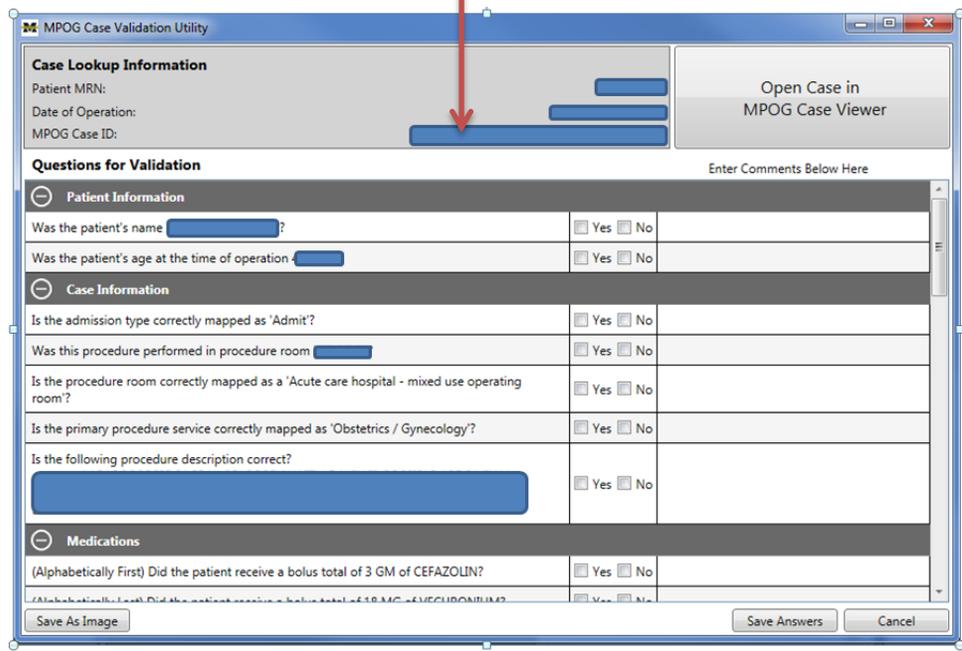
Case Selection Options (continued):

B. Pick case by case ID:

- i. Click the dial next to "Pick case by case ID."



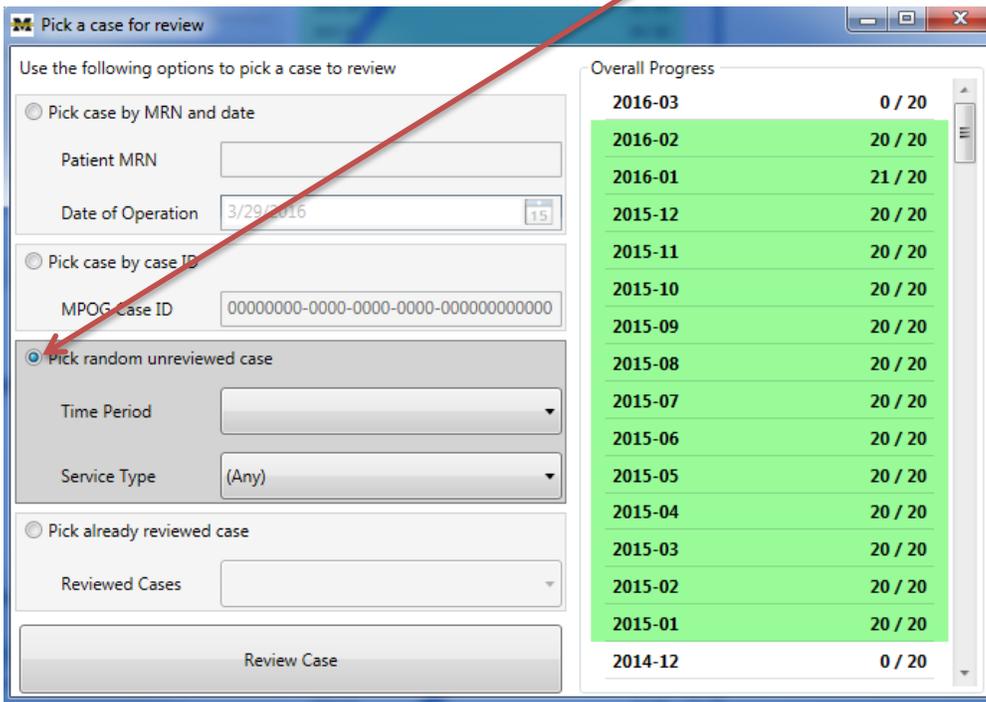
- iv. The Case Validation screen should pop up. For the purpose of this training, all PHI has been removed. Typically, you would verify that the MPOG Case ID is the same as the case you were initially trying to select and then begin case validation. Refer to Section 7.2 for how to conduct the case validation process.



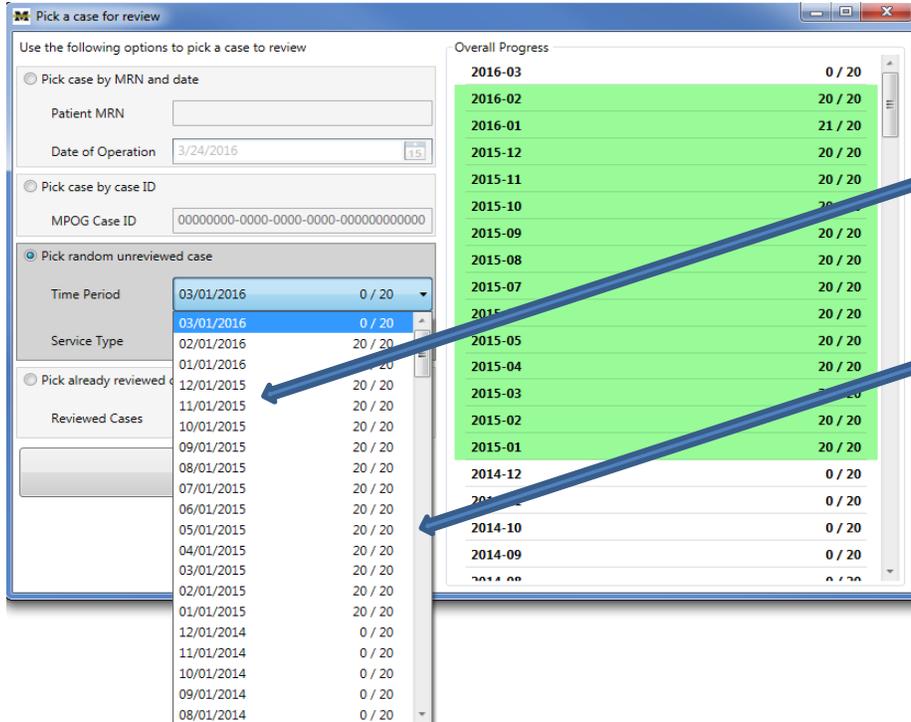
Case Selection Options (continued):

C. Pick random unreviewed case:

- i. Click the dial next to "Pick random unreviewed case."



- ii. Choose the date range.



The date ranges are viewable on a per month range.

***Note:** On the right side of the date range, you can view how many cases have been reviewed in that time frame.

iii. Select a service from the dropdown menu (optional).

The screenshot shows the 'Pick a case for review' window. The 'Pick random unreviewed case' option is selected. The 'Service Type' dropdown menu is open, showing a list of medical specialties. A blue arrow points to the dropdown menu.

Service Type	Reviewed	Total
(Any)	0	5126
Anesthesiology	0	5
Cardiac	0	196
Dentistry	0	24
Dermatology	0	7
General	0	460
Medical - cardiology	0	217
Medical - gastroenterology	0	64
Medical - hematology/oncology	0	15
Medical - nephrology	0	2
Medical - other	0	18
Medical - pulmonology	0	6
Neurosurgery	0	171
Obstetrics / Gynecology	0	278
Ophthalmology	0	562
Oral / Maxillofacial	0	86
Orthopedics	0	413
Otolaryngology	0	554
Plastics	0	212
Podiatry	0	8
Psychiatry	0	129
Radiology - Unspecified	0	148
Thoracic	0	72
Transplant	0	48
Trauma	0	88

iv. Select "Review Case" at the bottom of the screen.

The screenshot shows the 'Pick a case for review' window. The 'Service Type' is now set to 'Obstetrics / Gynecology'. The 'Review Case' button at the bottom is highlighted with a blue arrow.

- v. The Case Validation screen should pop up. For the purpose of this training, all PHI has been removed. At this point, you could begin case validation. Refer to Section 7.2 for how to conduct the case validation process.

- D. Picking an Already Reviewed Case:
 - i. Click the dial next to “Pick an already reviewed 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
2015-07	20 / 20
2015-06	20 / 20
2015-05	20 / 20
2015-04	20 / 20
2015-03	20 / 20
2015-02	20 / 20
2015-01	20 / 20
2014-12	0 / 20

- ii. Select a case from the dropdown menu. The date of operation and procedure type will display.

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

Time Period

Service Type

Pick already reviewed case

Reviewed Cases

Overall Progress

Year	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
2015-07	20 / 20
2015-06	20 / 20
2015-05	20 / 20
2015-04	20 / 20
2015-03	20 / 20
2015-02	20 / 20

03/20/2012 ABDOMINAL WASHOUT/CLOSURE
06/08/2012 HYSTEROSCOPY
01/09/2013 PEDCATH PACEMAKER/ICD GENERATOR CHANGE, PEDCATH PACEMAKER/ICD LEAD REVISION

- iii. Select "Review Case" at the bottom of the screen.

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

Time Period

Service Type

Pick already reviewed case

Reviewed Cases

Review Case

Overall Progress

Year	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
2015-07	20 / 20
2015-06	20 / 20
2015-05	20 / 20
2015-04	20 / 20
2015-03	20 / 20
2015-02	20 / 20
2015-01	20 / 20
2014-12	0 / 20

- vi. The Case Validation screen should pop up. For the purpose of this training, all PHI has been removed. At this point, you would verify that the case selected matches the case type that displays in the validator and begin case validation. Refer to Section 7.2 for how to conduct the case validation process.

Chapter 7.2 Case Review & Validation

Current case validation requirement: 20 cases per month (subject to change).

5. Select a case using one of the options discussed in Section 7.1. For the purpose of this training, random case selection will be utilized as this is the most common method applied for case validation.

Use the following options to pick a case to review

Pick case by MRN and date

Patient MRN:

Date of Operation: 3/24/2016

Pick case by case ID

MPOG Case ID: 00000000-0000-0000-0000-000000000000

Pick random unreviewed case

Time Period:

Service Type: (Any)

Pick already reviewed case

Reviewed Cases:

Review 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
2015-07	20 / 20
2015-06	20 / 20
2015-05	20 / 20
2015-04	20 / 20
2015-03	20 / 20
2015-02	20 / 20
2015-01	20 / 20
2014-12	0 / 20

6. Choose the date range.

Use the following options to pick a case to review

Pick case by MRN and date

Patient MRN:

Date of Operation: 3/24/2016

Pick case by case ID

MPOG Case ID: 00000000-0000-0000-0000-000000000000

Pick random unreviewed case

Time Period: 03/01/2016 0 / 20

Service Type: (Any)

Pick already reviewed case

Reviewed Cases:

Review 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
2015-07	20 / 20
2015-06	20 / 20
2015-05	20 / 20
2015-04	20 / 20
2015-03	20 / 20
2015-02	20 / 20
2015-01	20 / 20
2014-12	0 / 20
2014-11	0 / 20
2014-10	0 / 20
2014-09	0 / 20
2014-08	0 / 20

The date ranges are viewable on a per month range.

***Note:** On the right side of the date range, you can view how many cases have been reviewed in that time frame.

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: 3/24/2016

Pick case by case ID

MPOG Case ID: 00000000-0000-0000-0000-000000000000

Pick random unreviewed case

Time Period: 03/01/2016 0 / 20

Service Type: (Any)

Pick already reviewed case

Reviewed Cases:

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
2015-07	20 / 20
2015-06	20 / 20
2015-05	20 / 20
2015-04	20 / 20
2015-03	20 / 20
2015-02	20 / 20
2015-01	20 / 20
2014-12	0 / 20
2014-11	0 / 20
2014-10	0 / 20
2014-09	0 / 20
2014-08	0 / 20

Service Type List:

- (Any)
- Anesthesiology
- Cardiac
- Dentistry
- Dermatology
- General
- Medical - cardiology
- Medical - gastroenterology
- Medical - hematology/oncology
- Medical - nephrology
- Medical - other
- Medical - pulmonology
- Neurosurgery
- Obstetrics / Gynecology
- Ophthalmology
- Oral / Maxillofacial
- Orthopedics
- Otolaryngology
- Plastics
- Podiatry
- Psychiatry
- Radiology - Unspecified
- Thoracic
- Transplant
- Trauma

Summary Table:

Reviewed:	0	Total:	5126
Reviewed:	0	Total:	5
Reviewed:	0	Total:	196
Reviewed:	0	Total:	24
Reviewed:	0	Total:	7
Reviewed:	0	Total:	460
Reviewed:	0	Total:	217
Reviewed:	0	Total:	64
Reviewed:	0	Total:	15
Reviewed:	0	Total:	2
Reviewed:	0	Total:	18
Reviewed:	0	Total:	6
Reviewed:	0	Total:	171
Reviewed:	0	Total:	278
Reviewed:	0	Total:	562
Reviewed:	0	Total:	86
Reviewed:	0	Total:	413
Reviewed:	0	Total:	554
Reviewed:	0	Total:	212
Reviewed:	0	Total:	8
Reviewed:	0	Total:	129
Reviewed:	0	Total:	148
Reviewed:	0	Total:	72
Reviewed:	0	Total:	48
Reviewed:	0	Total:	88

8. Select 'Review Case' at the bottom of the screen.

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: 3/24/2016

Pick case by case ID

MPOG Case ID: 00000000-0000-0000-0000-000000000000

Pick random unreviewed case

Time Period: 03/01/2016 0 / 20

Service Type: Obstetrics / Gynecology

Pick already reviewed case

Reviewed Cases:

Review 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
2015-07	20 / 20
2015-06	20 / 20
2015-05	20 / 20
2015-04	20 / 20
2015-03	20 / 20
2015-02	20 / 20
2015-01	20 / 20
2014-12	0 / 20
2014-11	0 / 20
2014-10	0 / 20
2014-09	0 / 20
2014-08	0 / 20

9. After selecting 'Review case', information from an actual case (including PHI) will open. For the purpose of this training exercise, the PHI was removed.

MPOG Case Validation Utility

Case Lookup Information

Patient MRN: [REDACTED]

Date of Operation: [REDACTED]

MPOG Case ID: [REDACTED]

Open Case in MPOG Case Viewer

Questions for Validation

Enter Comments Below Here

Patient Information

Was the patient's name [REDACTED] Yes No

Was the patient's age at the time of operation [REDACTED] Yes No

Case Information

Is the admission type correctly mapped as 'Inpatient?' Yes No

Was this procedure performed in procedure room [REDACTED] Yes No

Is the procedure room correctly mapped as a 'Obstetrics - labor and delivery room?' Yes No

Is the primary procedure service correctly mapped as 'Obstetrics / Gynecology?' Yes No

Is the following procedure description correct? CERCLAGE Yes No

Medications

(Alphabetically First) Did the patient receive a bolus total of 3 GM of AMPICILLIN/SULBACTAM? Yes No

(Alphabetically Last) Did the patient receive a bolus total of 130 MG of SUCCINYLCHOLINE? Yes No

(Largest Bolus Total, Units of Mass Only) Did the patient receive a bolus total of 3 GM of AMPICILLIN/SULBACTAM? Yes No

(Smallest Bolus Total, Units of Mass Only) Did the patient receive a bolus total of 600 MCG of PHENYLEPHRINE? Yes No

Did the patient receive the first bolus of DIPHENHYDRAMINE at [REDACTED] Yes No

From [REDACTED] PM, did the patient receive an infusion of PROPOFOL at a rate of 150 MCG/KG/MIN? Yes No

Did the patient receive all of following medications (and only these) as a bolus: AMPICILLIN/SULBACTAM, DEKAMETHASONE, DIPHENHYDRAMINE, PHENYLEPHRINE, PROPOFOL, SUCCINYLCHOLINE Yes No

Did the patient receive all of following medications (and only these) as an infusion: PROPOFOL, REMFENTANIL Yes No

Did the patient receive the last bolus of DIPHENHYDRAMINE at [REDACTED] Yes No

Did the patient receive a total of 12.5 MG of DIPHENHYDRAMINE (bolus only)? Yes No

Notes

Did this patient receive a general anesthetic? Yes No

Was anesthesia start at [REDACTED] Yes No

Was surgical incision at [REDACTED] Yes No

Was anesthesia end at [REDACTED] Yes No

Physiologic

Was the highest value for a non-invasive blood pressure (systolic) 133? Yes No

Was the lowest value for a non-invasive blood pressure (systolic) 77? Yes No

Save As Image Save Answers Cancel

10. On this screen, you must answer every question with 'yes' or 'no'. You may comment as needed. Please follow-up on comments requiring action. For issues that need follow-up from the site technical team or coordinating center, the 'Save as Image' button is now available to save a screenshot of the case. **PHI will automatically be eliminated from the screenshot.**

11. 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

Save as type: Image files (*.png)

Hide Folders

Save Cancel

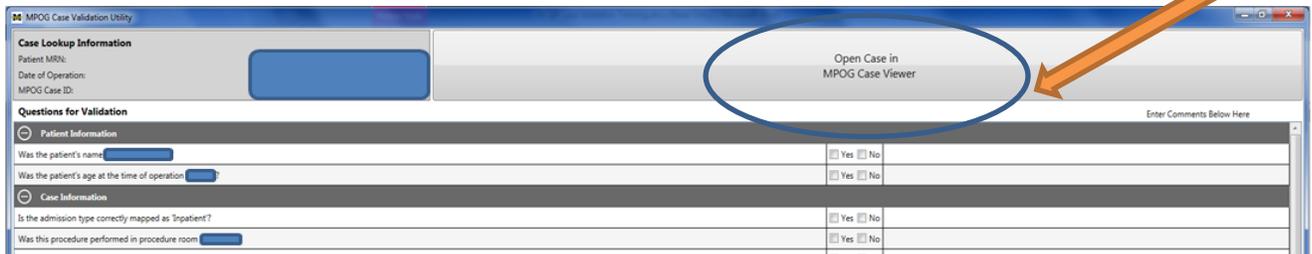
12. You can now email and attach the saved screenshot to communicate any issues to the site technical team or member of the ASPIRE coordinating center.

13. As you answer each question, you may need 3-4 programs open at a time to verify the information in the MPOG case validator “matches” the information present in the hospital Anesthesia Information Management System (AIMS). For this reason, it is recommended that you have 2-3 monitor screens available for use. Most likely, you will need the intra-op record open on one screen and the MPOG case validator on the other. However, the source of truth varies per institution depending on the electronic documentation system.

**For example: At the University of Michigan Health System, multiple systems are used for case validation:

- i. Centricity contains the Intra-op record, Anesthesia H&P, Case details.
- ii. Michart/Optime: May assist in validating current medications, inpatient/outpatient status.
- iii. Careweb: Surgeon documentation.
- iv. Carelink: (for cases pre-dating MiChart)

14. 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 Chapter 3 of the ACQR User Manual.



15. 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 not gray out the yes/no 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 ASPIRE QI Coordinator to identify next steps. See example below.

Physiologic		
Did the patient have an invasive arterial line in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Was the highest value for a non-invasive blood pressure (systolic) 86?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Was the lowest value for a non-invasive blood pressure (systolic) 52?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Did the patient receive all of following volatile gases: Isoflurane Sevoflurane	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Preop		
Was the patient's preoperative weight NOT FOUND kg (rounded to the nearest kg)?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Was the patient's preoperative height NOT FOUND cm (rounded to the nearest cm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Was the ASA physical status of the patient 'ASA 4'?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Was the patient's preoperative baseline blood pressure 71 / 52?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Was the patient on all of following medications (and only these) prior to the case:		

16. 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 to review the form at this time. Also, 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 medical form with several sections: 'Medications', 'Notes', and 'Physiologic'. Each section contains questions with 'Yes' and 'No' checkboxes. A large blue arrow points from the top left towards the 'Save Answers' button in the bottom right corner.

17. This will automatically save and update the monthly count for cases reviewed in the ‘Overall Progress’ section as seen below. Once again, 20 cases is the minimum monthly requirement once sites have started submitting data to MPOG. For months prior to MPOG participation/upload, it is recommended that at least 5 cases be reviewed for historical data.

The screenshot shows a window titled 'Pick a case for review'. It has three radio buttons for selection: 'Pick case by MRN and date', 'Pick case by case ID', and 'Pick random unreviewed case'. The 'Pick random unreviewed case' option is selected. To the right, there is a table titled 'Overall Progress' showing the number of cases reviewed per month.

Month	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

18. An ASPIRE QI Coordinator will be available either on site or via web conference for the first pass of the case validator utility.

For questions or comments, please contact:

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