

# ACQR Breakout Session

April 5, 2019

# Agenda

- Introductions/Announcements
- Avoiding Respiratory Complications Toolkit: Updates
- MPOG Application Suite – April Upgrades
  - Case Validation Question Changes
  - Data Diagnostics
  - Case Viewer
- MQUARK
  - 10 Audits per month required
  - Linkage required
  - Results Tab
  - Updated MQUARK User Guide available
- Q&A

# Introductions



# Announcements

- **CONGRATULATIONS** and **THANK YOU** to the following sites for a successful Import Manager Conversion:

## **Trinity**

St. Joseph Mercy Ann Arbor/Livingston/Chelsea

St. Joe Oakland

Mercy Livonia

Mercy Muskegon

## **Beaumont**

Royal Oak/Troy

Dearborn/Taylor

Farmington Hills

Grosse Pointe

Trenton/Wayne

- We are excited to announce our newest ACQR! Oryanna Diem will be joining us at the end of April, serving in a combination role as the Michigan Medicine ACQR and MPOG QI Coordinator!
- 3<sup>rd</sup> Annual ACQR Retreat will be held on Friday, September 20<sup>th</sup>!
- Measure Case Report Tool will now allow you to load cases dating back to Jan 1, 2015 data!

# Avoided Respiratory Toolkit Updates!

- New literature since release of ARC Toolkit in 2017
- Neuromuscular Blockade Considerations
- New focus and introduction to ASPIRE Measures (NMB 01/02, PUL 01/02/03), including links to Measure specs for reference
- PEEP – Optimal amount is undefined (we know non-zero is better than too high)
- Reduce modified driving pressures ( $PIP-PEEP \leq 16 \text{ cmH}_2\text{O}$ )
- Revert to 5 feet when assigning Tidal Volume for all patients under 5 feet

# Tidal Volume for Ideal Body Weight Tool



IDEAL BODY WEIGHT (IBW) / TIDAL VOLUME CHART													
MALES							FEMALES						
HEIGHT			IBW Male	6 ml/kg	7 ml/kg	8 ml/kg	HEIGHT			IBW Female	6 ml/kg	7 ml/kg	8 ml/kg
Feet	Inches	cm					Feet	Inches	cm				
4' 0"	48	121.92	22.4	300	350	400	4' 0"	48	121.92	17.9	270	320	360
4' 1"	49	124.46	24.7	300	350	400	4' 1"	49	124.46	20.2	270	320	360
4' 2"	50	127	27	300	350	400	4' 2"	50	127	22.5	270	320	360
4' 3"	51	129.54	29.3	300	350	400	4' 3"	51	129.54	24.8	270	320	360
4' 4"	52	132.08	31.6	300	350	400	4' 4"	52	132.08	27.1	270	320	360
4' 5"	53	134.62	33.9	300	350	400	4' 5"	53	134.62	29.4	270	320	360
4' 6"	54	137.16	36.2	300	350	400	4' 6"	54	137.16	31.7	270	320	360
4' 7"	55	139.7	38.5	300	350	400	4' 7"	55	139.7	34	270	320	360
4' 8"	56	142.24	40.8	300	350	400	4' 8"	56	142.24	36.3	270	320	360
4' 9"	57	144.78	43.1	300	350	400	4' 9"	57	144.78	38.6	270	320	360
4' 10"	58	147.32	45.4	300	350	400	4' 10"	58	147.32	40.9	270	320	360
4' 11"	59	149.86	47.7	300	350	400	4' 11"	59	149.86	43.2	270	320	360
5' 0"	60	152.4	50	300	350	400	5' 0"	60	152.4	45.5	270	320	360
5' 1"	61	154.94	52.3	310	370	420	5' 1"	61	154.94	47.8	290	330	380
5' 2"	62	157.48	54.6	330	380	440	5' 2"	62	157.48	50.1	300	350	400
5' 3"	63	160.02	56.9	340	400	450	5' 3"	63	160.02	52.4	310	370	420
5' 4"	64	162.56	59.2	350	410	470	5' 4"	64	162.56	54.7	330	380	440

*\*Revert to 5 feet when assigning Tidal Volume for all patients < 5 feet tall.*

Rationale: Ideal Body Weight calculator loses validity at < 5 feet.



# MPOG Application Suite – April Upgrades

- Case Validation
- Data Diagnostics
- Transfer Application
- Import Manager Assistant: V2 released

# Case Validation Question Changes

- Reordered the sections as follows:
  - Pt Information (No time restriction)
  - Preop (meds and ASA) (No time restriction)
  - **NEW: Ht/Wt (Before Anes Start through Anes End + 12 hours)**
  - Case Information (No time restriction)
  - Notes (No time restriction)
  - Physiologic (Anes Start-Pt Out of Room)
  - Meds (Anes Start-Pt Out of Room)
  - Fluids (No time restriction)
  - Staff (No time restriction)
- Added start and end times within the header banner
- Modified fluid question to be: 'Was xxxx (fluid type: 0.9NS) initiated at 'time'?
- Room type questions now refer to room tags in Location Mapping

**Case Lookup Information**

Patient MRN:

Date of Operation:

08/31/2018 - 10:45

MPOG Case ID:

1B835376-A302-E911-911C-005056A08ACB

[Open Case in  
MPOG Case Viewer](#)**Questions for Validation**[Enter Comments Below Here](#)**Notes***No Time Restriction*

Did this patient receive a general anesthetic?

☐ Yes ☐ No

Was anesthesia start at 'Aug 31 2018 10:45AM'?

☐ Yes ☐ No

Was surgical incision at 'Aug 31 2018 11:13AM'?

☐ Yes ☐ No

Was anesthesia end at 'Aug 31 2018 1:51PM'?

☐ Yes ☐ No**Physiologic***From 8/31/2018 10:45 AM to 8/31/2018 1:49 PM*

Was the highest value for a non-invasive blood pressure (systolic) 146?

☐ Yes ☐ No

Was the lowest value for a non-invasive blood pressure (systolic) 73?

☐ Yes ☐ No

Did the patient receive all of following volatile gases:

Sevoflurane

☐ Yes ☐ No**Medications***From 8/31/2018 10:45 AM to 8/31/2018 1:49 PM*

(Alphabetically First) Did the patient receive a bolus total of 4 MG of DEXAMETHASONE?

☐ Yes ☐ No

(Alphabetically Last) Did the patient receive a bolus total of 250 MG of PROPOFOL?

☐ Yes ☐ No

(Largest Bolus Total, Units of Mass Only) Did the patient receive a bolus total of 250 MG of PROPOFOL?

☐ Yes ☐ No

(Smallest Bolus Total, Units of Mass Only) Did the patient receive a bolus total of 100 MCG of FENTANYL?

☐ Yes ☐ No

Did the patient receive the first bolus of LIDOCAINE 2% at Aug 31 2018 10:53AM?

☐ Yes ☐ No

Did the patient receive all of following medications (and only these) as a bolus:

DEXAMETHASONE  
FENTANYL  
HYDROMORPHONE  
LIDOCAINE 2%  
MIDAZOLAM  
ONDANSETRON  
PROPOFOL☐ Yes ☐ No

Did the patient receive all of following medications (and only these) as a infusion:

No Infusions Found

☐ Yes ☐ No

Did the patient receive the last bolus of LIDOCAINE 2% at Aug 31 2018 10:53AM?

☐ Yes ☐ No**Fluids***No Time Restriction*[Save As Image](#)[Save Answers](#)[Cancel](#)

# Data Diagnostics

- Added included concepts below the graph
- Added new Troponin concepts (3392, 3396, 3397, 5011) to Troponin diagnostic
- Added new physiologic warming concept (3122) to Warming Method diagnostic
- Modified priority/threshold for a few diagnostics: not significant changes
- Import Manager only: Corrected bug that would not allow data diagnostics to export if attestation already completed
- Import Manager only: Room Type diagnostic now refers to room tags in Location Mapping (Room Type Mapping no longer exists)

Institution: University of Michigan Health System

Module: Measures

By Priority

☒ High (10)

☒ Medium (2)

☒ Low (0)

☐ Extraneous (0)

By Result

☒ Failed (0)

☒ Warning (0)

☒ Passed (9)

☒ N/A (3)

**Blood Transfusions** Measures High Priority ☒

**Extubation Notes** Measures High Priority ☒

**Intubation Notes** Measures High Priority ☒

**LMA Notes** Measures High Priority ☒

**Non-Depolarizing NMB** Measures High Priority ☒

**PEEP** Measures High Priority ☒

**Temperature** Measures High Priority ☒

**Tidal Volume** Measures High Priority ☒

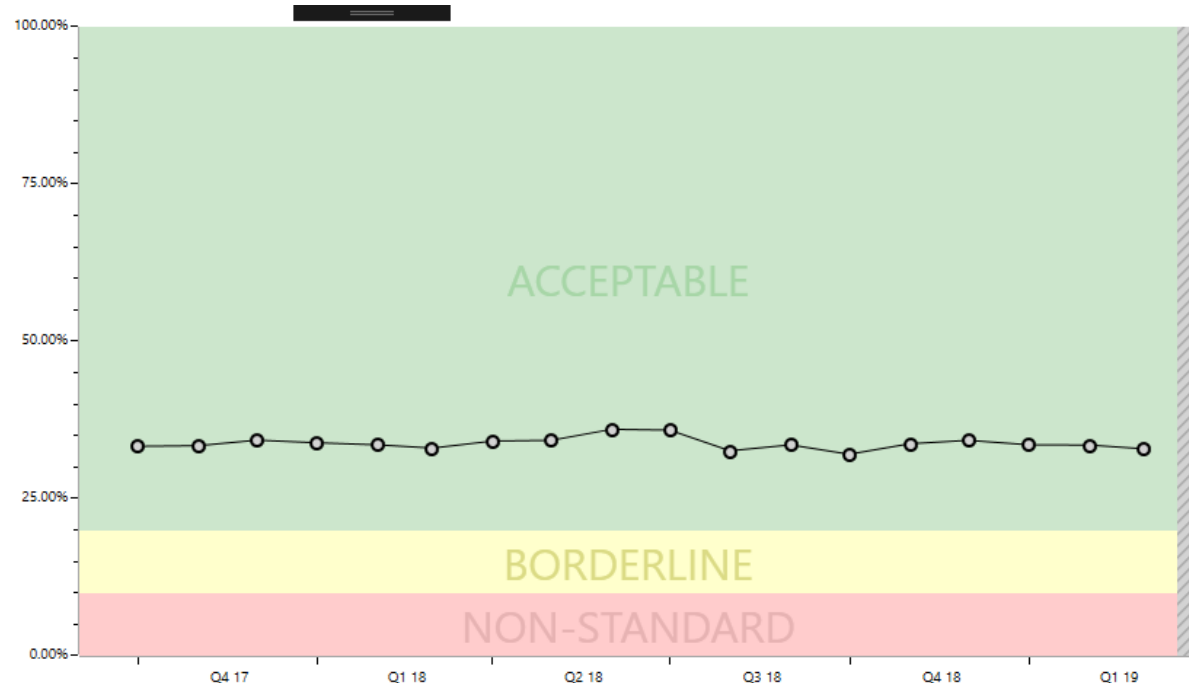
**Train of Four** Measures High Priority ☒

**Temperature Location** Measures High Priority ☐

**NMB Reversal** Measures Medium Priority ☐

**Warming Method** Measures Medium Priority ☐

Export Results



#### Percentage of Cases with a Non-Depolarizing Neuromuscular Blocking Agent Administration

Priority: [High Priority](#)

Diagnostic Executed On: 4/2/2019

Open case list for selected month  
(Select a point to enable case listing)

##### Description

This chart shows the percentage of cases with a non-depolarizing neuromuscular blocking agent administration. Verify that this reflects your institution's practices. If not, check your extract or mapping.

Concepts Used:

##### Neuromuscular Blockers


10043	ATRACURIUM
10129	CISATRACURIUM
10344	PANCURONIUM
10393	ROCURONIUM

##### Attestation

##### SQL Query (Advanced Users)

# Transfer to MPOG Central

- Now provides feedback on the date range of cases included in the upload in addition to case count.

 Upload Agreement

**By clicking "Submit Data", you attest the following:**

1) That you have PHI scrubbed your data to comply with the Multicenter Perioperative Outcomes Groups guidelines and that your data constitute a limited dataset.

2) That you have Institutional Review Board approval from your institution to submit this data and that this approval has not lapsed or otherwise expired.

3) That you are submitting these data to the Multicenter Perioperative Outcomes Group of your own volition. These data may be removed from the central database at any time, upon request.

4) That you have followed all guidelines detailed elsewhere, including but not limited to the Data Use Agreement(s) between your institution and the University of Michigan.

Month	Case Count	Date Range
3/1/2019	3,018	3/2/2019 to 3/16/2019
2/1/2019	5,698	2/1/2019 to 2/28/2019

Submit Data

Cancel




<https://mquark.mpog.org/Forms/Projects.aspx>

# MQUARK Updates

- **Procedure Type** now required for form submission
- **Handoff Start** added to link page making it easier to match case with audit
- Cases now group by month rather than audit date
- Back button fixed on link page

**PACU HANDOFF FORM P4P NEW**

1. Date of Procedure [Required]



2. Patient Age [Required]

3. Patient Gender [Required]

-- Select --

4. Procedure Type [Required]

# MQUARK – Requirements

- 10 Audits per site per month
- Must be entered into MQUARK by the 3<sup>rd</sup> Wednesday of the following month.
- Audits must be linked by the 4<sup>th</sup> Wednesday of the following month.

2019-01-23 [10]			
Procedure Type	Created By	Created Date	
Lap Cholecystectomy	MERIDITH	01/23/2019	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Link</a>
right total hip arthroplasty	KJBUCEK	01/23/2019	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Link</a>
left tissue expander	KJBUCEK	01/23/2019	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Link</a>
Brachio axillary AV shunt?	MERIDITH	01/23/2019	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Link</a>
ORIF left patella	KJBUCEK	01/23/2019	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Link</a>
Neck tumor resection	MERIDITH	01/23/2019	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Link</a>
Rhinoplasty	MERIDITH	01/23/2019	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Link</a>
Lap donor nephrectomy	MERIDITH	01/23/2019	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Link</a>
Whipple	MERIDITH	01/23/2019	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Link</a>
SI JOINT FUSION	MERIDITH	01/23/2019	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Link</a>

# MQUARK – Linking to MPOG Case ID

Age	Gender	MPOG Case ID	Procedure Text	
72	F	c4210d3c-bf1f-e911-a746-00215a9b0a8c	RIGHT ANTERIOR CERVICAL DISCECTOMY AND FUSION	<a href="#">Link</a>
72	F	16210d3c-bf1f-e911-a746-00215a9b0a8c	RIGHT DUPYTREN'S CONTRACTURE RELEASE	<a href="#">Link</a>
72	F	ce210d3c-bf1f-e911-a746-00215a9b0a8c	BILATERAL MASTOPEX LEFT BREAST IMPLANT EXCHANGE - UNILATERAL	<a href="#">Link</a>
72	F	50210d3c-bf1f-e911-a746-00215a9b0a8c	IR ANEURYSM COILING	<a href="#">Link</a>
72	F	97200d3c-bf1f-e911-a746-00215a9b0a8c	MIDLINE CLOSURE/RECONSTRUCTION OF MOH'S DEFECT	

# MQUARK – Troubleshooting Linking

- If there are no cases to link or you are not seeing the correct case check:
  - Have I uploaded this month of data?
  - Is the correct gender, age and procedure date entered in the audit?
- If you accidentally link the wrong case, simply click “link” on the correct case and MQUARK will update.

# MQUARK – Results Tab

**PACU HANDOFF**

Preview

+ New Patient

0 In Progress

20 Complete

10 Link to MPOG

Report

## FILTERS

Institution

University of Michigan Health System

Date of Procedure Start

2019-02-01

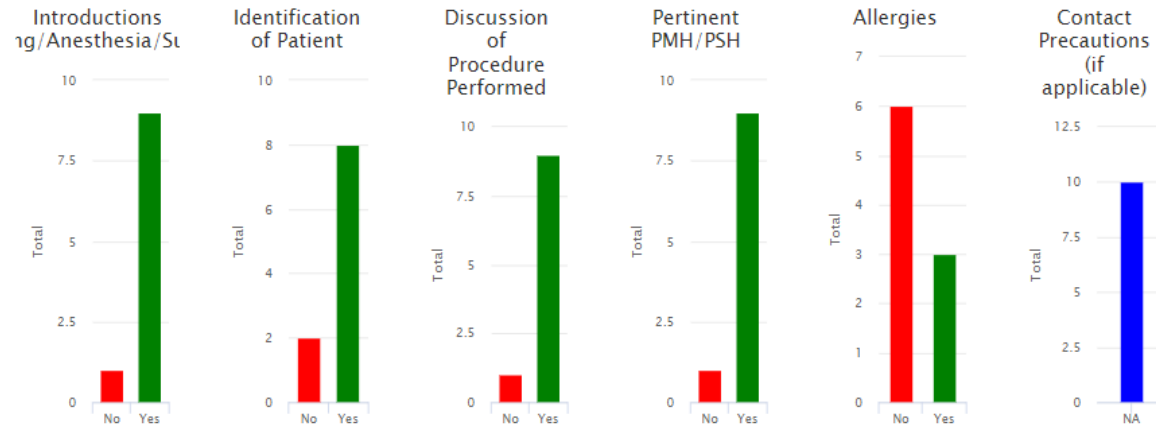
Date of Procedure End

2019-02-28

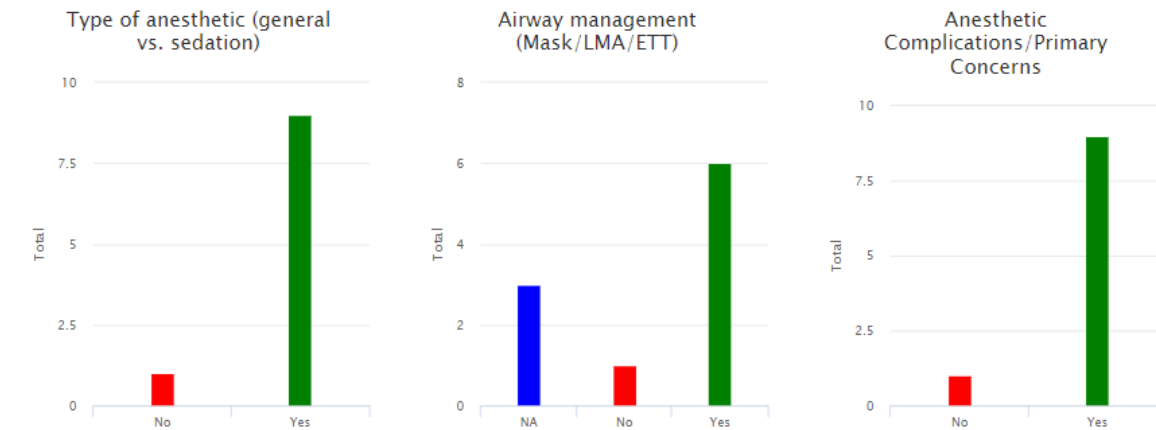
Process

# MQUARK Results

## Background



## Anesthetic Management



# MQUARK User Guide

## Quality - Resources

### ▶ ASPIRE

▶ BCBSM CQI Information

▶ P4P

▶ Michigan Contacts

▶ Our Measures

▶ Toolkits

▶ Site Collaboration

▶ **Resources**

▶ QCDR

▶ MOCA®

▶ Provider Feedback

▶ FAQs

Listed below you'll find valuable resources that Quality Champions and ACQRs use frequently to ensure high quality data is sent to MPOG.

### MPOG Suite Training Manual

- [MPOG Application Suite Training Manual](#)
- [Chapter 1: Downloading and Accessing MPOG Suite](#)
- [Chapter 2: Concept Browser](#)
- [Chapter 3: Import Manager and Variable Mapping](#)
- [Chapter 4: Location Mapping](#)
- [Chapter 5: Case Viewer](#)
- [Chapter 6: Data Diagnostics](#)
- [Chapter 7: Case Validation](#)
- [Chapter 8: PHI Scrubber](#)
- [Chapter 9: Transfer to MPOG Central](#)
- [Chapter 10: Content Synchronization](#)
- [Chapter 11: Provider Contacts](#)
- [Chapter 12: ASPIRE Dashboards](#)
- [Chapter 13: Measure Case Report](#)
- [Chapter 14: Batch MRN Lookup](#)
- [Appendix A: NSQIP Import Tool](#)
- [Appendix B: QCDR Audit Tool](#)
- [Appendix C: DataDirect User Guide](#)

### MQUARK

- [MQUARK User Guide](#)



# MQUARK - General Feedback Session

Questions/Feedback?

# Thank you!

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