

ASPIRE Obstetric Anesthesia Subcommittee Meeting

February 15, 2023





Agenda

- Announcements
- December 2022 Meeting recap
- PCRC Overview- Mike Mathis, MPOG Director of Research
- QI Story: ABX-01 (Bronson Kalamazoo)
- Oxytocin Survey Results
- PONV Updates
- OB Dashboard tutorial





Announcements

OB Subcommittee Meetings:

- May 24, 2023 1pm EST
- November 15, 2023 1pm EST







December Meeting Recap

- Subcommittee voted to exclude Cesarean Deliveries from TEMP-01 data. This change has been implemented: score changes minimal (-2.2-+5 points).
- Discussed Oxytocin dose ranges at MPOG sites. A survey was sent out to gather information from sites – will share later in meeting.
- Dr. Ashraf Habib and Nicole Zanolli presented the research project on placenta accreta.





Measure Updates

• GA-03-OB — Will likely go live by end of March. The Neuraxial and Obstetric Anesthesia Type phenotypes need revisions before we make this measure public on dashboards.

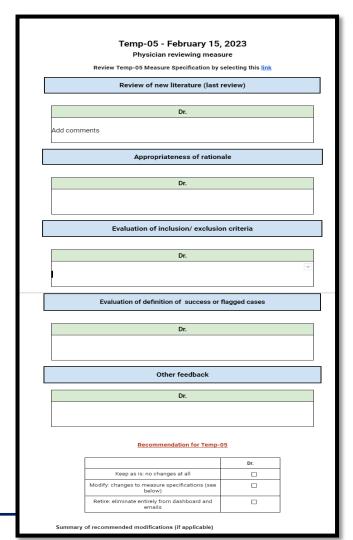
TEMP-01- Cesarean deliveries now excluded from this measure.





TEMP 05 Measure review

- TEMP-05 is the first obstetric-specific measure due for review in early 2023.
- We are seeking one or two volunteers from different institutions, to review this measure and associated normothermia literature.
- Reviewers name will be listed on the Measure Spec
- Template form





MPOG Research Overview





OB-related Research Questions *Answerable* with MPOG:

- Do emergent C-sections tend to follow a <u>diurnal pattern</u>? Are anesthesia practice patterns for emergent daytime C-sections different from emergent nighttime C-sections?
- Does the decision to use a vasopressor infusion for a C-section, mostly depend on the patient's blood pressure, or what hospital the patient went to?
- How is <u>oxytocin</u> dosed and administered during C-sections, and how does this associate with hypotension, tachycardia, and estimated blood loss?
- Do anesthesiologists who <u>commonly do obstetric anesthesia</u> (e.g. >10% of cases are obstetric cases) have better obstetric outcomes than <u>anesthesiologists who don't</u>?
- How are obstetric patients with advanced cardiac disease (e.g. mWHO Class IV "<u>cardio-obstetric</u>" patients) typically managed intraoperatively?





Steps to Developing a Research Proposal



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Perioperative Clinical Research Committee (PCRC)

The research committee coordinates the clinical research efforts of MPOG, by reviewing all submitted research proposals and tracking the progress of ongoing research projects. The committee ensures the appropriateness of the clinical research conducted within MPOG and the use of MPOG resources. Only colleagues from active MPOG sites can submit a research proposal to the PCRC for review and it is the responsibility of the MPOG site's Principal Investigator (PI) to review all proposals before submission to the PCRC.

The following steps outline the process for submitting a research proposal:

CTED 1. REFORE VOLUBECIN

STEP 8: PCRC REVIEW

STEP 1: DEPORE TOO DEGIN	
STEP 2: DETERMINE FEASIBILITY	
STEP 3: WRITE RESEARCH PROJECT SPECIFIC IRB AND DRAFT PCRC PROPOSAL	
STEP 4: DATA QUERY SPECIFICATION	•
STEP 5: ESTIMATE MPOG COHORT SAMPLE SIZE / REFINE INCLUSION AND EXCLUSIONS	
STEP 6: INSTITUTIONAL PI PREVIEW AND TEST DATA DOWNLOAD	٠
STEP 7: SUBMIT PROPOSAL TO COORDINATING CENTER	,

MPOG website -->

Research -->

"Research Proposal

Process"





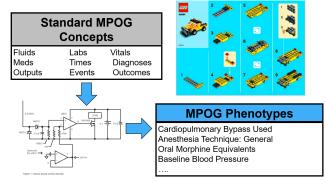


"Tips & Tricks" Research Modules









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Research -->

"Tips & Tricks"







Importance of Preparation...

Before you begin:

- DataDirect Security Checklist and Authorization
- Tips & Tricks Modules

Determine feasibility:

- Consult your local MPOG Site PI (Research Champion)
- Is question answerable with MPOG data?
- DataDirect for sample size estimates



MPOG Research Consultations





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Research -->

"Consultation Request"



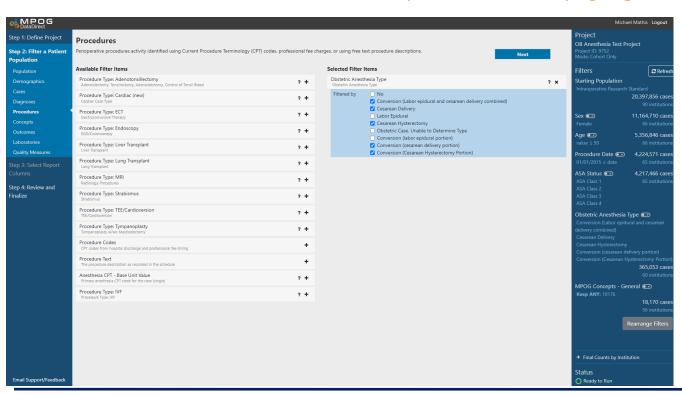
We're committed to your success...





DataDirect Live Demo

MPOG website --> Tools --> DataDirect: https://datadirect.mpog.org/







Quality Improvement Story: ABX 01

Quality Champion: Brad Berndt, MD

OB Champion: Robert Nicholson IV, MD

ACQR: Denise Schwerin, RN

Bronson Kalamazoo







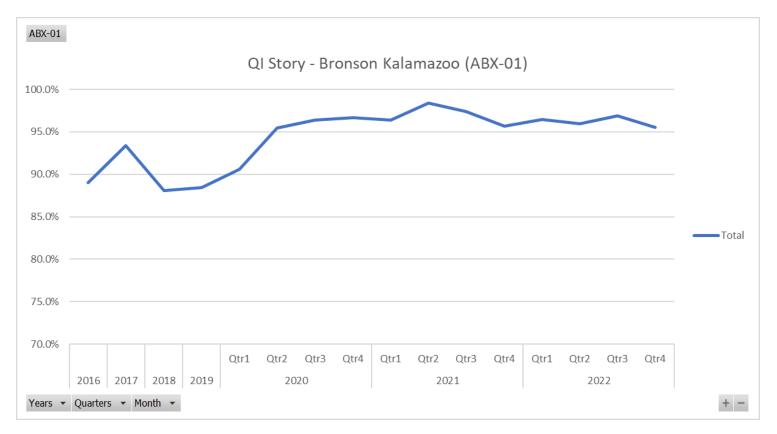
ABX-01

February 15, 2023

Dr. Robert Nicholson, IV Kalamazoo Anesthesiology



ABX-01







Antibiotics and C-sections

- Collaborative focus
 - L&D Nursing
 - OB Physicians
 - Anesthesia
- Surgeon order sets improved for ease of ordering
- Common antibiotics in Pyxis near L & D OR's
 - Cefazolin
 - Clindamycin
 - Azithromycin





Scheduled C-Section with Spinal

- Anesthesia staff education
 - Administer antibiotics prior to spinal
 - Reminders posted in each L&D OR







C-section After Laboring

- L&D nurse start azithromycin in patient room (ruptured/in labor)
- L&D nurse may also start cefazolin (ex. Urgent case with epidural in place)









Thank you!

bronsonhealth.com



Oxytocin Survey Results



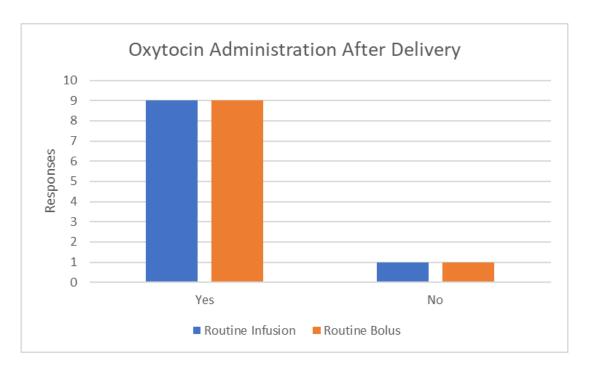


Oxytocin Survey Results

- Survey was posted to the Basecamp forum to 26 participants on Jan 3rd, 2023
- Survey was active for 10 days & received 10 responses.
- Questions focused on oxytocin administration following delivery of neonate: describe bolus dose ranges and infusion amounts as well as duration of infusions following labor.
- Asked the group to share policies related to oxytocin administration at their site.
- Requested any additional topics for subcommittee to discuss throughout the year.



Oxytocin Survey Results



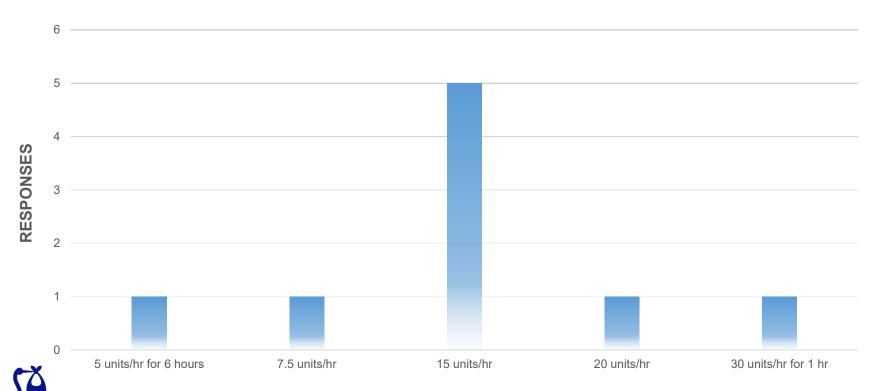
Bolus dosage ranged from 1-3 units after delivery.

One site reported 30 units – 'wide open, after cord clamped.'





Oxytocin Infusion Following Delivery





PACU Rate and Duration				
3.72 units/hr for 4 hrs	1			
4.8 units/ hr x 2 hours	1			
5 units/hr	1			
7.5 units/hr	1			
10-15 units/hr	1			
15 units/hr x 4 hrs	1			
30 units over 4 hours	1			
30 Unit bag over 30 min	1			
30 units/hr for 1 hr then 3.6 units/hr x 1hr	1			





Discussion

- How is success of the infusion measured? Uterine tone grading?
- Is there opportunity to standardize oxytocin infusion rates across sites? Has anyone experienced adverse effects from oxytocin infusion in their patients?
- Other data the group would be interested in?



Future topics

- Topics the OB Subcommittee would like to discuss in 2023 per January 2023 OB Subcommittee Survey:
 - NPO for labor epidural (not possible with MPOG data)
 - Reducing the wet tap rate (not possible with MPOG data)
 - Chloroprocaine spinals for short OB procedures (Can send out survey if interested)
 - Epidural monitoring and labor analgesia (not possible with MPOG data)
 - BMI Stratification across sites
 - Transfusion and EBL





^{*}Any other topics or suggestions please reach out to Monica Servin or Nicole Barrios, and we will add these to our agenda. All suggestions welcome!

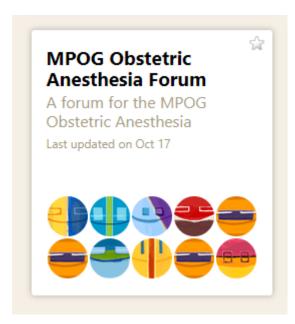
Postoperative Nausea and Vomiting (PONV) ASPIRE Measures





Basecamp Discussion – Jan 2023

- Question posted to Basecamp regarding data on the use of two agents for preventing PONV during a cesarean delivery.
- Question also raised at previous meetings via chat in Zoom meetings.
- Information presented during February 2022 meeting.





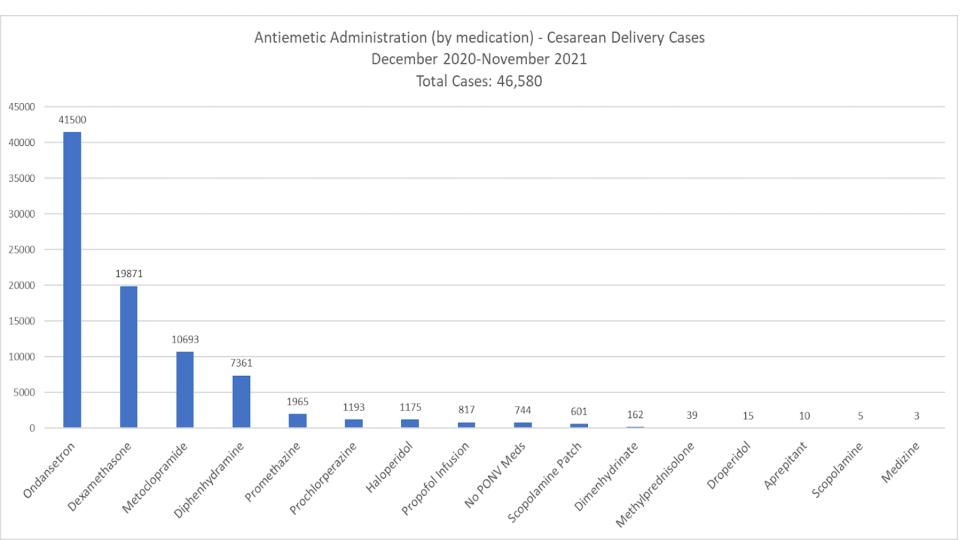


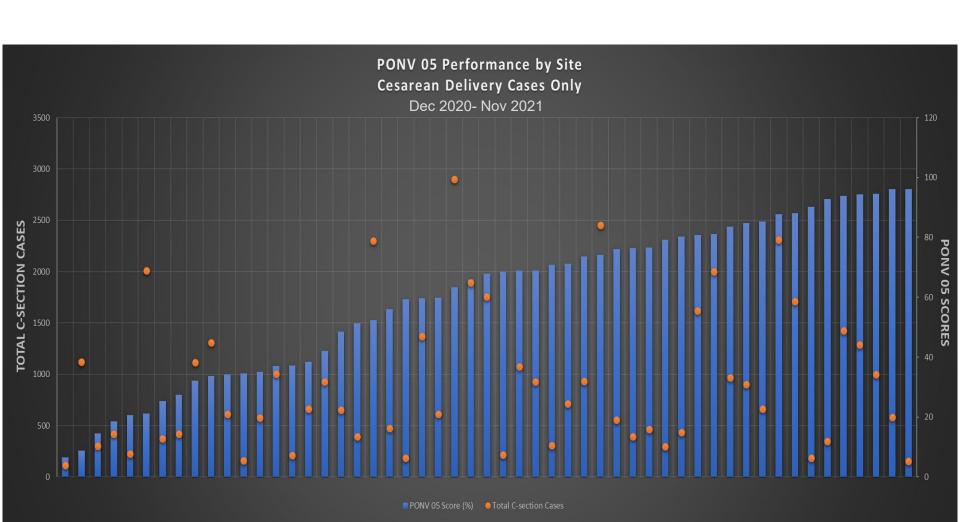
PONV 05

- <u>For cesarean delivery cases only</u>: At least two prophylactic pharmacologic antiemetic agents from different classes preoperatively or intraoperatively (per SOAP ERAS 2021 guidelines)
- Excludes labor epidurals
- PONV Risk factors not considered for cesarean delivery patients
- Measure time period for cesarean delivery cases: 4 hours before <u>cesarean delivery start time</u> to <u>PACU</u>
 <u>Start</u> (Cesarean conversion cases are determined using the <u>Obstetric Anesthesia Type phenotype</u> value codes 1, 7, & 8)
 - *1- Conversion (Labor epidural and cesarean delivery combined),
 - 7- Conversion (Cesarean delivery portion),
 - 8- Conversion (Cesarean hysterectomy portion)







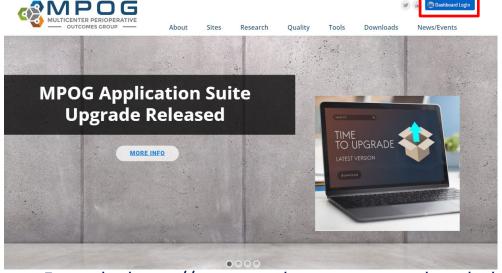


Quality Dashboard Tutorial





MPOG Quality Dashboard Tutorial





- Enter credentials on next page:
 - Username: Your institutional email address
 - Password: Created by user when account was established use forgot password button if needed.

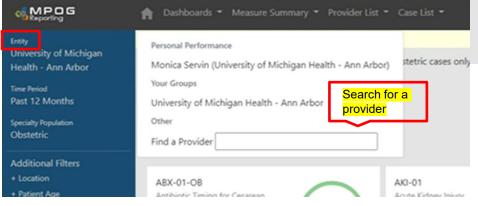


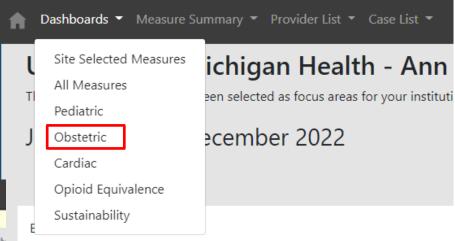




MPOG Dashboard

Once you see the dashboard view, select the dropdown highlighted above and filter for Obstetric.

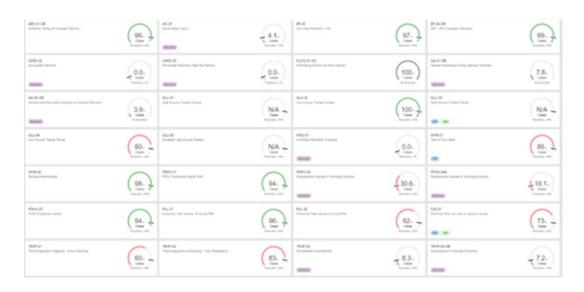








Dashboard Con't - Live Demonstration



• The performance metrics for OB cases will be shown on your dashboard.

You can toggle between dashboard views as you like!





THANK YOU!

Monica Servin, MD

MPOG Obstetric Anesthesia
Subcommittee Chair
monicar@med.umich.edu

Nicole Barrios MHA, BSN-RN
Obstetric Anesthesia Subcommittee Lead
nicbarri@med.umich.edu





GA-03-OB Specification: DRAFT

Description:

Percentage of cesarean delivery cases converted to general anesthesia after epidural

 GA-03b-OB: Percentage of cesarean delivery cases converted to general anesthesia after combined spinal epidural

Inclusion:

Cesarean delivery cases with epidural anesthesia administered

GA-03b-OB: Cesarean delivery cases with combined spinal epidural

Exclusion:

- Cesarean Hysterectomies as determined by the "Obstetric Anesthesia Type" Phenotype.
- Non-cesarean delivery cases, including labor epidural only cases
- Cesarean delivery cases without epidural placement (or CSE for GA-03b)





Review of Existing General Anesthesia Measures for Cesarean Delivery

- GA-01-OB: Percentage of cesarean delivery cases where GA was used
- ❖ GA-02-OB: Percentage of cesarean delivery cases where GA was administered after neuraxial anesthesia
- GA-03-OB: Percentage of cesarean delivery cases converted to general anesthesia after epidural
- GA-03b-OB: Percentage of cesarean delivery cases converted to general anesthesia after combined spinal epidural



