

## Anesthesiology Performance Improvement and Reporting Exchange (ASPIRE)

Quality Committee Meeting Notes – Monday October 26, 2020

Abess, Alex (Dartmouth)	Lacca, Tory (MPOG)
Angel, Alan (Bronson)	LaGorio, John (Mercy Muskegon)
Applefield, Daniel (St. Joseph Oakland)	Lewandowski, Kristyn (Beaumont)
Aziz, Mike (OHSU)	Lins, Steven (Bronson)
Bailey, Meridith (MPOG)	Lucier, Michelle (Henry Ford)
Berndt, Bradford (Bronson)	Malenfant, Tiffany (Beaumont Trenton/Wayne)
Biggs, Dan (Oklahoma)	Manders, Larry (Beaumont Taylor)
Bollini, Mara (Washington University)	Mathis, Mike (MPOG)
Boutin, Jimmy (Henry Ford)	McKinney, Mary (Beaumont Dearborn / Taylor)
Buehler, Kate (MPOG)	Milliken, Christopher (Sparrow)
Charette, Kristin (Dartmouth)	Moody, Rebecca
Chen, Lee-Lynn (UCSF)	Nanamori, Masakatsu (Henry Ford Detroit)
Coffman, Traci (St. Joseph Ann Arbor)	Obembe, Samson (Weill Cornell)
Cohen, Bryan (Henry Ford Detroit)	O'Reilly-Shah, Vikas (UW)
Collins, Kathleen (St. Mary Livonia)	Ostarello, Claire (Partners)
Coons, Denise (Bronson)	Overmyer, Colleen (University of Chicago)
Cuff, Germaine (NYU Langone)	Pace, Nathan (Utah)
Davies, Eric (HF Allegiance)	Pardo, Nichole (Beaumont)
Davis, Quinten (Mercy Muskegon)	Poindexter, Amy (Holland)
DePasquale, Will (NYU Langone)	Qazi, Aisha (Beaumont Troy)
Dewhirst, William (Dartmouth)	Quinn, Cheryl (St. Joseph Oakland)
Forro, Jason (St. Joseph)	Rubin, Daniel (University of Chicago)
Gall, Glenn (St. Mary Livonia)	Rutherford, Renee (Borgess Ascension)
Goatley, Jackie (Michigan Medicine)	Schroeder, Becky (Duke)
Hagan, Katherine (MD Anderson)	Scranton, Kathy (Mercy St. Mary)
Hall, Kathleen (Borgess)	Shah, Nirav (MPOG)
Heiter, Jerri (St. Joseph A2)	Smith, Susan (Beaumont)
Harwood, Timothy (Wake Forest)	Szymanski-Bogart, Brooke (MPOG)
Horton, Brandy (A4)	Trummel, John (Dartmouth)
Janda, Allison (MPOG)	Tyler, Pam (Beaumont Farmington Hills)
Jacobson, Cameron (Utah)	Vaughn, Shelley (MPOG)
Kaper, Jonathan( Beaumont Trenton)	Wood, Aaron (Beaumont Farmington Hills)
Khan, Meraj (Henry Ford Macomb)	Wren, Jessica (Henry Ford Wyandotte/Macomb)
Kheterpal, Sachin (MPOG)	Zeldes, Daniel (Beaumont Grosse Pointe)
Kileny, Joel (St. Joseph, Ann Arbor)	
Konig-Randall, Kimberly (St. Joseph Ann Arbor)	

### Agenda & Notes

- 1) **Roll Call:** Will contact QI Champions and ACQRs directly to inquire about participation status if missing. Other participants can review meeting minutes and contact Coordinating Center if missing from attendance record.
- 2) **Minutes from August 24, 2020 meeting approved-** minutes and recording posted on the website for review

### 3) **Announcements & Updates**

- a) COVID-19 study published in British Journal of Anesthesia (BJA) by Dr. Pirracchio and colleagues at UCSF: Response of US hospitals to elective surgical cases in the COVID-19 pandemic
- b) MPOG Featured Member: Amy Poindexter, BSN, RN from Holland Hospital in Michigan. ACQR and vital
- c) October 2020 Upgrade now available! Please contact [support@mpog.zendesk.com](mailto:support@mpog.zendesk.com) to receive scripts to upgrade

### 4) **Upcoming Events**

- a) MSQC/ASPIRE Collaborative Meeting: April 23, 2021
- b) ASPIRE Collaborative Meeting: July 16, 2021
- c) MPOG Retreat: October 8, 2021
- d) Quality Committee Meetings via Zoom
  - i) Monday, January 25, 2021
  - ii) Monday, March 22, 2021
  - iii) Monday, May 24, 2021
  - iv) Monday, July 26, 2021
  - v) Monday, September 27, 2021
  - vi) Monday, November 22, 2021

### 5) **MPOG Retreat Recap**

- a) Meeting Summary, Presentation Slides, and Videos available at [mpog.org](http://mpog.org)
- b) Went well! Thanks to everyone for joining. Virtual meeting allows more folks to join than would normally be able to travel to ASA location. Great attendance- over 160 attendees were able to join for at least a portion of the meeting.
- c) Thank you to our speakers!
  - i) Dr. Michelle Schreiber- Informing us that MIPS is not going away
  - ii) Dr. Nathalia Jimenez- Educating us on how DEI can influence perioperative outcomes
  - iii) Best of MPOG presenters:
    - (1) Dr. Sharon Reale (Brigham & Women's)
    - (2) Dr. Tim Dubovoy (Michigan Medicine)
    - (3) Dr. Orestes Mavrothalassitis
  - iv) Subcommittee Leads:
    - (1) Cardiac Anesthesia Subcommittee: Dr. Allison Janda (Michigan Medicine)
    - (2) Obstetric Anesthesia Subcommittee: Dr. Rachel Kacmar (University of Colorado)
    - (3) Pediatric Anesthesia Subcommittee: Dr. Bishr Haydar (Michigan Medicine)
  - v) Breakout Sessions: Led by the MPOG Coordinating Center team
- d) **2021 Plans**
  - i) QI measures:
    - (1) GLU 05/06: Hyperglycemia Treatment & Appropriate Preop Glucose Check
    - (2) SUS 02: Global Warming F inhalational agents
    - (3) PUL 04: Respiratory bundle
    - (4) Peds/OB/Cardiac specific measures as recommended by the subcommittees
    - (5) Registry Outcomes to be added to QI reporting for sites that have merged data with various registries: MSQC, NSQIP, STS, etc.

- (6) More informational/best practice measures (ASPIRE 2.0)
- (7) MPOG QI Stories/Measure Review at Quality Committee Meetings
- ii) Development
  - (1) Emails 2.0
  - (2) Incremental Updates to DataDirect & QI Reporting
  - (3) App Suite: Location Mapping overhaul
  - (4) MQUARK: Generalize clinical trial software
  - (5) Infrastructure: More computed phenotypes
  - (6) Goal: Continue to build applications that work together and integrate data in a user-friendly way
- iii) Dashboard 2.0
  - (1) See Quality Committee slide deck for screenshots of new dashboard, including subspecialty dashboards for OB, pediatric, and cardiac anesthesia – Now available in the beta version of the dashboard
  - (2) Continue to provide feedback in the beta period: [support@mpog.zendesk.org](mailto:support@mpog.zendesk.org)
  - (3) Next Steps:
    - (a) Bug fixes & usability enhancements
    - (b) Individual dashboard rollout
    - (c) Special Measures (OME, SSI)
- 6) **MOCA 2.0 Part 4**
  - a) Visit MPOG website at <https://mpog.org/moca> for more information on eligibility, fees, and process to participate in the ASPIRE MOCA 2.0 program
- 7) **Subcommittee Updates**
  - a) Obstetric Anesthesia Subcommittee
    - 1) Addition of informational row for severe pre-eclampsia in reports for AKI 01
    - 2) Measures in development:
      - i) BP 04- Hypotension during Cesarean Deliveries: Flag cases with SBP <90 for >5 minutes between placement of spinal and delivery
      - ii) GA 01- General Anesthesia for Cesarean Deliveries
    - 3) Continued development of “Obstetric Anesthesia Type” phenotype
      - a) Will replace current methods of excluding labor epidural or cesarean delivery cases in most measures
    - 4) 2021 Meetings
      - a) February 3rd, 1pm EST
      - b) May 5th, 1pm EST
      - c) August 4th, 1pm EST
      - d) November 3rd, 1pm EST
    - 5) If interested in joining, please contact Brooke Szymanski-Bogart ([bmiszy@med.umich.edu](mailto:bmiszy@med.umich.edu))
  - b) Pediatric Anesthesia Subcommittee
    - i) Pediatric Cases in MPOG Central as of October 2002: 1,647,619
    - ii) Now have 4 pediatric-specific quality measures
    - iii) 2 sites have integrated their NSQIP-peds data with MPOG
    - iv) 64 subcommittee members participating
    - v) 2020 Measures Complete
      - (1) TEMP 04
      - (2) OME-Tonsillectomy/Adenoidectomy

- (3) OME-Spine
- vi) Measure in Progress: PAIN 01 (Peds): Multimodal analgesia including regional blocks
- vii) Next Meeting: December 16, 2020 1-2pm EST
- viii) 2021 Meetings:
  - (1) February 17, 2021
  - (2) May 19, 2021
  - (3) August 18, 2021
  - (4) October 9, 2021 (in-person @SPA)
  - (5) December 15, 2021
- ix) If interested in joining, please contact Meridith Bailey ([meridith@med.umich.edu](mailto:meridith@med.umich.edu))
- c) Cardiac Anesthesia Subcommittee
  - i) Sites from 13 states now involved: see slide deck for participating sites
  - ii) Great subcommittee meeting held on October 9<sup>th</sup>
    - (1) Goals: Develop cardiac-specific measures consistent with subspecialty guidelines and consensus statements
    - (2) First cardiac-specific measure to develop: temperature management
      - (a) Post-bypass hypothermia avoidance
      - (b) On bypass hyperthermia avoidance
  - iii) To join, contact Allison Janda ([ajanda@med.umich.edu](mailto:ajanda@med.umich.edu))
- 8) **AKI Measure Review and Vote**
  - a) Measure Review Process:
    - i) MPOG QI measures need to be reviewed to stay current and relevant
    - ii) Should reflect latest evidence and consensus of the MPOG Quality Committee
    - iii) All MPOG measures should be reviewed every 3 years
    - iv) Quality Champions received an e-mail that outlined the process and included a link to a Google spreadsheet that listed all the ASPIRE measures. Quality champions are assigned to measures to assist with literature review and provide guidance to the Quality Committee regarding measure changes/status. If you have not taken a look at the Google sheet, please do so and let us know if you have any questions.
      - (1) If you want to change your assigned measure or have any questions, please contact the Coordinating Center
      - (2) Coordinating Center will continue to reach out next month for those champions assigned for any measure requiring review between now and December 2020.
    - v) Reviewers will make one of the following recommendations (with supporting information):
      - (1) Continue Measure as Is
      - (2) Modify Measure
      - (3) Retire Measure
  - b) First measure up for review: AKI 01
    - i) Initial rollout: 2016
    - ii) Last Review was performed in 2016 though updates have been made since then
    - iii) Assigned to the following reviewers:
      - (1) Dr. Michael Mathis, Michigan Medicine
      - (2) Dr. Michael Aziz, OHSU
      - (3) Dr. Bishr Haydar, Michigan Medicine
    - iv) Reviewed current AKI 01 measure specification: <https://spec.mpog.org/Spec/Public/18>

- v) Risk adjustment is under review currently and will be revised by the end of the year – Coordinating Center will add new methodology to spec once available
  - (1) Michael Mathis: Recommends threshold be re-evaluated once risk adjustment model is updated
- vi) KDIGO AKI definition used for this measure – still relevant in 2020
- vii) Several references recommended to be added to the measure spec:
  - (1) Khwaja A: KDIGO Clinical Practice Guidelines for Acute Kidney Injury 2012; 120:pp c179–84
  - (2) Levey AS, Stevens LA, Schmid CH, Zhang YL, Castro AF 3rd, Feldman HI, Kusek JW, Eggers P, Van Lente F, Greene T, Coresh J, CKD-EPI (Chronic Kidney Disease Epidemiology Collaboration): A new equation to estimate glomerular filtration rate. *Ann Intern Med* 2009; 150:604–12
  - (3) Gumbert SD, Kork F, Jackson ML, Vanga N, Ghebremichael SJ, Wang CY, Eltzschig HK: Perioperative Acute Kidney Injury. *Anesthesiology* 2020; 132:180–204
  - (4) Turan A, Cohen B, Adegboye J, Makarova N, Liu L, Mascha EJ, Qiu Y, Irefin S, Wakefield BJ, Ruetzler K, Sessler DI: Mild Acute Kidney Injury after Noncardiac Surgery Is Associated with Long-term Renal Dysfunction: A Retrospective Cohort Study. *Anesthesiology* 2020; 132:1053–61
  - (5) Meersch M, Schmidt C, Hoffmeier A, Van Aken H, Wempe C, Gerss J, Zarbock A: Prevention of cardiac surgery-associated AKI by implementing the KDIGO guidelines in high risk patients identified by biomarkers: the PrevAKI randomized controlled trial 2017; 43:pp 1551–61
  - (6) Futier E, Lefrant J-Y, Guinot P-G, Godet T, Lorne E, Cuvillon P, Bertran S, Leone M, Pastene B, Piriou V, Molliex S, Albanese J, Julia J-M, Tavernier B, Imhoff E, Bazin J-E, Constantin J-M, Pereira B, Jaber S, INPRESS Study Group: Effect of Individualized vs Standard Blood Pressure Management Strategies on Postoperative Organ Dysfunction Among High-Risk Patients Undergoing Major Surgery: A Randomized Clinical Trial. *JAMA* 2017; 318:1346–57
  - (7) Mathis MR, Naik BI, Freundlich RE, Shanks AM, Heung M, Kim M, Burns ML, Colquhoun DA, Rangrass G, Janda A, Engoren MC, Saager L, Tremper KK, Kheterpal S, Aziz MF, Coffman T, Durieux ME, Levy WJ, Schonberger RB, Soto R, Wilczak J, Berman MF, Berris J, Biggs DA, Coles P, Craft RM, Cummings KC, Ellis TA 2nd, Fleishut PM, Helsten DL, et al.: Preoperative Risk and the Association between Hypotension and Postoperative Acute Kidney Injury. *Anesthesiology* 2020; 132:461–75
- c) **Reviewers recommendation (Mathis):**
  - i) Recommendation: Continue the measure as-is (adding references and risk adjustment methodology once updated)
    - (1) KDIGO still is most widely accepted way to define AKI
    - (2) Current evidence still suggests perioperative AKI is associated with long-term health risks, hospital costs, and mortality
- d) AKI 01 Measure Discussion:
  - i) *Eric Davies (Henry Ford Allegiance)*: This measure relies on labs being obtained reliably after surgery to assess for AKI. I think we need a measure that simply identifies the percentage of cases that had a postop creatinine measured

- (1) *Michael Mathis (Michigan Medicine)*: Do not have a bullet-proof solution for this. Could be transparent with reporting exclusions and reason for exclusion (i.e. lack of postop creatinine) so we could better track this
- (2) *Nirav Shah (ASPIRE Director)*: Could create a demographic type measure on how many patients had a creatinine measured and submitted to MPOG- could add this to the new reporting dashboard for 2021
- ii) *Kate Hagan (MD Anderson)*: List of exclusions are arbitrary- why are only non-obstetric procedures, pain procedures, and ECT are excluded?
  - (a) *Michael Mathis (Michigan Medicine)*: These are the procedures that were excluded for the MPOG study that specifically examined AKI and hypotension. This was just a starting point.
  - (b) *Nirav Shah (ASPIRE Director)*: Many other cases would be excluded by the 45-minute exclusion or no postop creatinine measured. Thought we could cover most appropriate procedure exclusions with that criterion.
  - (c) *Kate Hagan (MD Anderson)*: We often do have patients who have colonoscopy or endoscopy procedures with cancer diagnosis and therefore have preop/postop creatinine values so they are included.
- e) **AKI 01 Vote: Via Webex**
  - i) **Continue Measure as is – 23/30 (77%)**
  - ii) Modify measure – 2/30 (7%)
  - iii) Retire measure – 5/30 (16%)
- f) Next measures due for review:
  - i) PUL 01/02: Protective Tidal Volume – Drs. Avery Tung (UChicago) & Douglas Colquhoun (Michigan Medicine)
  - ii) TEMP 03: Perioperative Normothermia – Drs. Simon Tom (NYU) & Vikas O’Reilly-Shah (University of Washington)

**Meeting concluded at 11:02am**