MPOG QI - Quality Committee Meeting Notes – Monday, May 19th, 2025

Attendance:

Abess, Alex (Dartmouth)	LaGorio, John (Trinity Health)
Addo, Henrietta (MPOG)	Lalonde, Heather (Trinity Health)
Agerson, Ashley (Spectrum)	Liwo, Amandiy (UAB)
Balfanz, Greg (North Carolina)	Lewandowski, Kristyn (Corewell)
Battat, Anna (UPenn)	Lopacki, Kayla (Mercy Health - Muskegon)
Bauza, Diego (Weill Cornell)	Lou, Sunny (WUSTL)
Berndt, Brad (Bronson)	Lu-Boettcher, Eva (Wisconsin)
Bollini, Mara (WUSTL)	Malenfant, Tiffany (MPOG)
Bowman-Young, Cathlin (ASA)	McKinney, Mary (Corewell Dearborn / Taylor)
Brennan, Alison (Maryland)	Milliken, Christopher (Sparrow)
Buehler, Kate (MPOG)	Mirizzi, Kam (MPOG)
Cain, James (University of Florida)	Nurani, Shafeena (Corewell Troy)
Calabio, Mei (MPOG)	O'Conor, Katie (Johns Hopkins)
Chiao, Sunny (Virginia)	O'Dell, Diana (MPOG)
Chopra, Ketan (Henry Ford - Detroit)	Ohlendorf, Brian (Duke)
Clark, David (Stanford)	Owens, Wendy (MyMichigan - Midland)
Cohen, Bryan (Henry Ford - West Bloomfield)	Pardo, Nichole (Corewell)
Coleman, Rob (MPOG)	Paul, Jonathan (Columbia)
Colquhoun, Douglas (MPOG)	Pennington, Bethany (WUSTL)
Corpus, Charity (Corewell Royal Oak)	Pimentel, Marc Phillip (B&W)
Cuff, Germaine (NYU)	Poindexter, Amy (Holland)
Delhey, Leanna (MPOG)	Qazi, Aisha (Corewell)
Denchev, Krassimir (St Joseph Oakland)	Ring, Laurence (Columbia)
Dewhirst, Bill (Dartmouth)	Rolfzen, Megan (Nebraska)
Doney, Allison (MGH)	Saffary, Roya (Stanford)

Drennan, Emily (Utah)	Sakkab, Julie (AUB)
Edelman, Tony (MPOG)	Schwerin, Denise (Bronson)
Esmail, Tariq (Toronto)	Scranton, Kathy (Trinity Health St. Mary's)
Everett, Lucy (MGH)	Shah, Nirav (MPOG)
Gibbons, Miranda (Maryland)	Smiatacz, Frances Guida (MPOG)
Goatley, Jackie (Michigan)	Smith, Mason (MyMichigan)
Goldblatt, Josh (Henry Ford Allegiance)	Stam, Benjamin (UMHS West)
Grewal, Ashan (Maryland)	Stanislaus, Mellany (Johns Hopkins)
Guruswamy, Jayakar (Henry Ford Jackson)	Steadman, Randolph (Houston Methodist)
Hagerman, Sara (Sparrow)	Stewart, Alvin (UAMS)
Hall, Meredith (Bronson Battle Creek)	Stierer, Tracey (Johns Hopkins)
Heiter, Jerri (St. Joseph A2)	Stumpf, Rachel (MPOG)
Henson, Patrick (Vanderbilt)	Toonstra, Rachel (Spectrum Health)
Horton, Brandy (Anes Associates)	Tyler, Pam (Corewell Farmington Hills)
Jacobson, Cameron (Utah)	Uzarski, Michelle (Corewell)
Jared, Jeremy (MPOG)	Vaughn, Shelley (MPOG)
Johnson, Rebecca (Spectrum & UMHS West)	Wade, Meredith (MPOG)
Kaper, Jon (Corewell Trenton)	Wedeven, Chris (Holland)
Khan, Meraj (Henry Ford)	Weinberg, Aaron (Weill Cornell)
Kheterpal, Sachin (MPOG)	Wilson, Blake (MyMichigan)
Kinney, Tyler (Houston Methodist)	Woody, Nathan (UNC)
Kirke, Sarah (Nebraska)	Yuan, Yuan (MPOG)
Kumar, Vikram (MGH)	Zittleman, Andrew (MPOG)
Lacca, Tory (MPOG)	

Agenda & Notes

Meeting Start: 1002

1. Agenda

2. Roll Call: Via Zoom or contact Coordinating Center (<u>support@mpog.zendesk.com</u>) if you were present but not listed on Zoom.

3. Minutes from February 2025 Quality Committee Meeting

4. Featured Members

- 1. March and April 2025: Tariq Esmail, BMSc, MB Bch BAO, FRCPC, MSc & Justina Bartoszko, MD, MSc, FRCPC University Health Network Toronto
- 2. May and June 2025: Brandon Togioka, MD Oregon Health Science University

5. Upcoming Events – 2025 Meetings

- Friday, July 18, 2025 ASPIRE Collaborative Meeting Henry Execute Center Lansing, MI
- 2. Friday, September 2025 ACQR Retreat Location TBD
- 3. Friday, October 10, 2025 MPOG Retreat San Antonio, Texas

6. Sustainability Measure Review

- 1. All MPOG Sustainability measures reviewed by the Sustainability Workgroup
- 2. April 28, 2025 Meeting Minutes
- 3. May 12, 2025 Meeting Minutes

Name	Institution
Brady Still, MD	UChicago
Seema Gandhi, MD	UCSF
Ben Stam, MD	Corewell West and UM West
Eva Lu Boettcher, MD	University of Wisconsin
Katie O'Connor, MD, MBA	Johns Hopkins
Nick Dalesio, MD	Johns Hopkins
Lucy Everett, MD	Mass General
Liz Hansen, MD	Seattle Children's
Jonathan Paul, D.O	Columbia University
Anjan Saha, MD, PhD	Columbia University
Jodi Sherman, MD	Yale

- 4. <u>SUS-01</u> Ben Stam, MD, Corewell West & UM West
 - a. SUS-01: Fresh Gas Flow, less than or equal to 3 L/min
 - b. No recommendations for changes to inclusion criteria.
 - c. Recommended updates to exclusions:
 - i. Exclude ASA 5 and 6 cases.
 - ii. Remove exclusion for cases <=30 minutes
 - d. Dr. Stam recommends retiring SUS-01 as 3L/min is too high to reduce overall carbon emissions. Would recommend adding another low flow measure for 1L.min and maintaining the SUS-04 2L/min measure.
 - e. Discussion:

- i. *Xan Abess (Dartmouth):* May be worthwhile to keep the SUS-01 measure for a period of time for new sites who are still working on the gradual adoption of better (vs.) best practices for sustainability.
- Patrick Henson (Vanderbilt): Would also be in favor of keeping SUS-01 for a while for those sites still working on it. Are any sites already targeting 1L/min? Are you able to do it without 100% FiO2?
 - Ben Stam (Corewell West/UM West): My practice is to target 0.5L/min – can set FiO2 at ~75%. With a 6L circuit wash-in, I can maintain inspiratory O2~30-40%.
 - 2. *Ketan Chopra (Henry Ford Allegiance):* Yes we are working on 1L/min at Henry Ford now.
- iii. Ashan Grewal (Maryland): Agree with removing SUS-01 and focusing on 2L/min instead.
- iv. *Marc Pimentel (BWH):* Agree with moving the bar to 2L/min.
- v. Ashan Grewal (Maryland): Prefer to exclude cases under 30 minutes since in such a short case it will likely be difficult to average less than 3L/min when emergence @ MV flow rate might take 5 minutes.
 - 1. *Ben Stam (Corewell West/UM West):* Remember, when inspiratory sevo is less than 0.3, those minutes are already excluded.

<mark>f. Vote:</mark>

QC 5.19: SUS 01 Overall Vote

Poll | 1 question | 32 of 88 (36%) participated

 1. SUS 01 Overall Vote (Single choice)

 32/32 (100%) answered

 Keep as is: no changes at all
 (9/32) 28%

 Modify: changes to measure specifications
 (13/32) 41%

 Retire: eliminate entirely from dashboard and emails
 (10/32) 31%

QC 5.19: SUS 01 Modification

Poll | 2 questions | 33 of 90 (36%) participated

1. SUS 01 Modification: Add Exclusion for ASA 5 and 6 (Single choice) 32/33 (96%) answered Continue to include ASA 5 and 6 (no changes) (4/32) 13% Exclude just ASA 5 (0/32) 0% Exclude just ASA 6 (1/32) 3% Exclude ASA 5 and 6 (27/32) 84%

2. SUS 01 Modification: Remove exclusion for cases < 30 mins (Single choice)

29/33 (87%) answered

Yes	(14/29) 48%
No	(15/29) 52%

g. Next Steps:

- i. Coordinating Center to confirm there was one vote/site as results were very close.
- ii. We will modify SUS-01 to exclude ASA 5 & 6 cases. After tallying votes, we will maintain the 30-minute exclusion from the measure.
- 5. SUS-04 Ben Stam, MD, Corewell West & UM West
 - a. SUS-04: Fresh Gas Flow, less than or equal to 2 L/min
 - b. Recommendation to develop new measure to assess low fresh gas flow 1L/min.
 - c. Recommendation to modify exclusions:
 - i. Exclude ASA 5 and 6 cases.
 - ii. Remove exclusion for cases <=30 minutes
 - d. Vote:

QC 5.19: SUS 04 Overall Vote

Poll | 1 question | 31 of 92 (33%) participated

1. QC 5.19: SUS 04 Overall Vote (Single choice)	
31/31 (100%) answered	
Keep as is: no changes at all	(12/31) 39%
Modify: changes to measure specifications	(18/31) 58%
Retire: eliminate entirely from dashboard and emails	(1/31) 3%

QC 5.19: SUS 04 Modification

Poll | 2 questions | 32 of 93 (34%) participated

1. SUS 04 Modification: Add Exclusion for ASA 5 and 6 (Single choice) 32/32 (100%) answered

Continue to include ASA 5 and 6 (no changes)	(3/32) 9%
Exclude just ASA 5	(0/32) 0%
Exclude just ASA 6	(0/32) 0%
Exclude ASA 5 and 6	(29/32) 91%

SUS 04 Modification: Remove exclusion for cases < 30 mins (Single choice)

31/32 (96%) answered

Yes	(14/31) 459
Νο	(17/31) 559
	(17/31) 337

QC 5.19: SUS 04: New Measure: FGF ≤ 1 l/min

Poll | 1 question | 29 of 93 (31%) participated

New Measure: FGF ≤ 1 I/min (Single choice)

29/29 (100%) answered

Yes	(17/29) 59%
No	(12/29) 41%

e. Next Steps:

- i. Coordinating Center to confirm there was one vote/site as results were very close.
- ii. We will modify SUS-04 to exclude ASA 5 & 6 cases. After tallying votes, we will maintain the 30-minute exclusion from the measure.
- Create a new measure to assess very low gas flow 1L/min. Can anticipate this new measure to be published within 3-6 months.

6. <u>SUS-02</u> – Eva Lu-Boettcher, University of Wisconsin

- a. SUS-02: Global Warming Footprint, Maintenance
- Recommend updating calculation to use GWP20 vs. GWP100 for inhaled agents.
 Would also recommend creating a new measure that aligns with SUS-02 but uses the Cuveele method to calculate carbon footprint as it is more accurate but allows sites to transition to this method over time.
- c. Discussion:
 - i. *Blake Wilson (MyMichigan):* Would a change to GWP20 underestimate N2O environmental impact?
 - 1. *Nirav Shah (MPOG Coordinating Center):* I think GWP20 and GWP100 for nitrous are the same, in the sources we used.
 - ii. Douglas Colquhoun (MPOG Associate Research Director): Digging into this, we're likely underestimating carbon footprint by about 16% with the current SUS-02 calculation. By converting to the Cuveele method, we would likely be underestimating by about 7%.

d. Vote:

QC 5.19: SUS 02 Overall Vote

Poll | 1 question | 31 of 88 (35%) participated

1. QC 5.19: SUS 02 (Single choice)	
31/31 (100%) answered	
Keep as is: no changes at all	(6/31) 19%
Modify: changes to measure specifications	(21/31) 68%
Retire: eliminate entirely from dashboard and emails	(4/31) 13%

QC 5.19: SUS 02 Modification

Poll | 1 question | 19 of 87 (21%) participated

1. SUS 02 Modification: Replace GWP 100 values with GWP 20 for CO2 equivalent calculations (Single choice)

19/19 (100%) answered

Yes	(15/19) 79	%
No	(4/19) 21	%

QC 5.19: SUS 02 Build new measure or phenotype

Poll | 1 question | 25 of 86 (29%) participated

1. New Measure: Build new measure or phenotype using Cuveele formula for agent consumption (Single choice)

25/25 (100%) answered



e. Next Steps:

- Modify SUS-02 to use GWP20 values for inhaled agents will assess
 Michigan site scores independently to determine when measure change
 will be released as this is a P4P and VBR measure.
- ii. Develop new measure that calculates carbon footprint using the Cuveele Method.
- 7. <u>SUS-03</u> Eva Lu-Boettcher, University of Wisconsin
 - a. SUS-03: Global Warming Footprint, Induction
 - b. Recommends updating calculation to use GWP20 vs. GWP100 for inhaled agents.
 - c. Also recommends increasing the upper limit threshold to 250kg to ensure no cases would be flagged (currently at 50kg).
 - d. Recommends building a new measure to assess fresh gas flow during induction with an upper limit around 6L/min.
 - <mark>e. Vote:</mark>

QC 5.19: SUS 03 Overall Vote

Poll | 1 question | 27 of 77 (35%) participated

1. SUS 03 Overall Vote (Single choice)

27/27 (100%) answered

Keep as is: no changes at all	(4/27) 15%
Modify: changes to measure specifications	(23/27) 85%
Retire: eliminate entirely from dashboard and emails	(0/27) 0%

QC 5.19: SUS 03 Modification

Poll | 1 question | 25 of 77 (32%) participated

1. SUS 03 Modification: Replace GWP 100 values with GWP 20 for CO2 equivalent calculations (Single choice)

25/25 (100%) answered

Yes	(23/25) 92%
No	(2/25) 8%

QC 5.19: SUS 03:New Measure: FGF

Poll | 1 question | 29 of 76 (38%) participated

 New Measure: Build new measure assessing performance of FGF at 6 l/min during induction phase of anesthetic (Single choice)

29/29 (100%) answered

Yes	(18/29) 62%
No	(11/29) 38%

f. Next Steps:

- i. Update upper threshold for SUS-03 to 250kg to ensure cases aren't flagged for this informational measure.
- ii. Modify SUS-03 to use GWP20 values for inhaled agents
- iii. Create new measure to assess FGF during induction with a threshold of 6L/min.
- 8. <u>SUS-07</u> Nirav Shah, MPOG Coordinating Center
 - a. Tabled for next meeting.

Meeting Adjourned: 1102

Next meeting: Monday, July 28, 2025