



MPOG Pediatric Committee Meeting

March 2, 2026

Agenda

Announcements and Updates

AKI-03-Peds Review

New Measure Discussion: Peds Anemia

New Pediatric Subcommittee Vice Chair

Congratulations Dr. Eva Lu-Boettcher!

Dr. Eva Lu-Boettcher is a pediatric anesthesiologist at the University of Wisconsin, where she holds the role of Associate Vice Chair for Quality and Safety. She has served as the site Principal Investigator and MPOG Quality Champion since 2021, leading local efforts to leverage data for quality improvement. Her current efforts emphasize high-value, and environmentally sustainable anesthesia care and has served as a measure reviewer for SUS-02, SUS-03, SUS-05-Peds and SUS-06-Peds.



The newest pediatric hospitals to join MPOG!

Welcome.....

Riley Hospital for Children
Indianapolis, IN



UCSF Benioff Children's
Oakland, CA



2026 Pediatric Meetings

Pediatric Committee Meetings

- March
- June
- December

MPOG Retreat at ASA

San Diego, CA

- Friday, October 16th



2026 Measure Reviews

- Four measures due for review
- Please email meridith@med.umich.edu if interested in serving as a measure reviewer!

 2026	(4)	
Peds 🧒	FLUID-02-Peds	Minimizing Colloid Use, Pediatrics
Peds 🧒	PAIN-01-Peds	Multimodal Analgesia
Peds 🧒	SUS-06-Peds	Low Fresh Gas Flow, Pediatric Induction
Peds 🧒	TEMP-04-Peds	Normothermia Intraop

New Measure Released: AKI-03-Peds



Acute Kidney Injury, Peds Cardiac

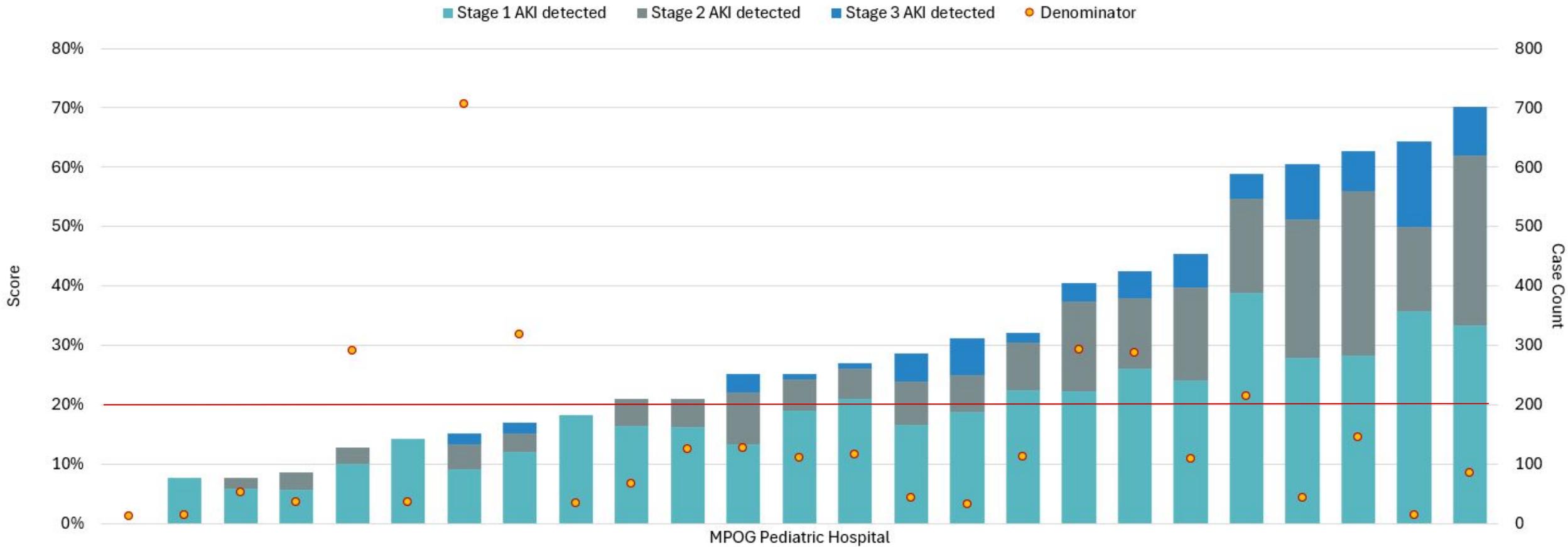
- Percentage of pediatric patients who had cardiac bypass and a baseline creatinine increase of more than 1.5 times within 7 postoperative days, or the baseline creatinine level increased by ≥ 0.3 mg/dL within 48 hours postoperatively.

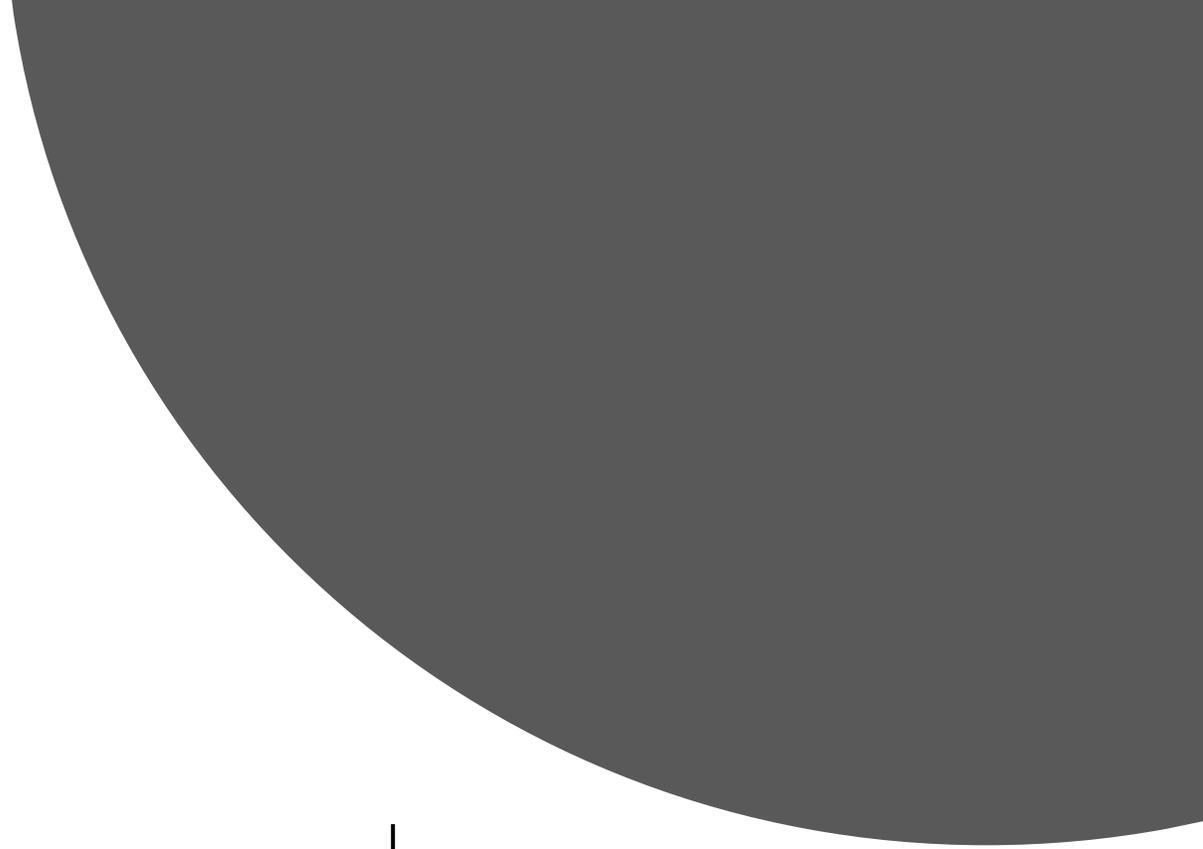
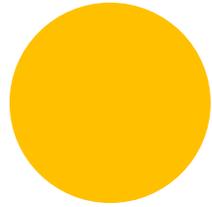
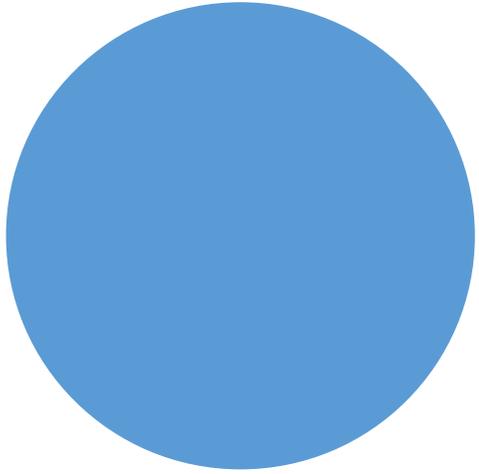
Exclusions

- ASA 6 including Organ Procurement
- **Preterm neonates** and Adult patients > 18y
- Cardiac cases without cardiopulmonary bypass
- Patients with more than one case in a 7-day period.
- Patients with pre-existing renal failure (stage 4 or 5)
- Cases where a baseline creatinine is not available within 60 days preoperatively
- Cases where a creatinine lab is not available within 7 postoperative days

Postoperative AKI, Pediatric Cardiac Surgery (AKI-03-Peds)

CY 2025





New Measure Build Discussion





Patient Blood Management

- Process - % of cases where patient had Preoperative Anemia
- Outcome - % of cases where patient had a Delta in Preop Hgb vs. Postop Hgb of ____
- Informational - % of cases with TXA administration; % of cases with PRBC administration intraop

Interest in specific case types?

- Major non-cardiac
- Spinal fusions
- Craniosynostosis

Patient Based Blood Management

- (1) **screening** for, diagnosing, and appropriately treating **anemia**
- (2) minimizing surgical, procedural, and iatrogenic blood losses
- (3) managing coagulopathic bleeding to improve patient outcomes through patient-centered care.
 - Goobie, Faroni 2025 Perioperative paediatric patient blood management: a narrative review

- 1) To optimize and improve red cell mass by **identifying** and treating **preoperative anemia** at an early stage, thereby preventing unnecessary transfusions.
- 2) To minimize blood loss and maintain the hemostatic balance as effectively as possible.
- 3) To enhance the patient's physiological tolerance to anemia and coagulopathy, ultimately aiming to reduce transfusion requirements
 - Acar, Gurocak. 2025 Patient blood management in pediatric patients: current strategies and future perspectives.

What Can We Learn From Guidelines/Expert Opinion About Who Should We Be Targeting

- Diagnose and treat anemia at least 3–6 weeks before **elective surgery** (ideally within an anemia clinic setting). Consider cancelling elective major surgery to optimize hemoglobin in **high- risk patients**.
 - Goobie, Faroni 2025 Perioperative paediatric patient blood management: a narrative review
- Therefore, especially for **elective surgeries**, it is recommended to perform screening for anemia at least 3-6 weeks prior to the scheduled operation and to initiate diagnostic and therapeutic measures tailored to the underlying etiology if anemia is detected
 - Acar, Gurocak

Who is at High Risk of Blood Transfusion During Elective Noncardiac Surgery?

I.e. These patients are at risk of receiving blood during their case

Review of MPOG data for who gets transfusion

Create a Cohort of Patients at Risk of Transfusion & in Whom We Can
Potentially Intervene

33,028,734 cases at 78 institutions

Inclusion/Exclusion*

Procedure Date: 1/1/25 - 2/1/26
Cardiac phenotype (peds)
Excluded pt who had MRI, tonsils, intubation only, block only,
endoscopy, bronchoscopy, cystoscopy, lung transplant
< 60 minutes from anesthesia start-end

*Still refining

77,738 cases at 71 institutions

74,289 Cases with No
PRBC Transfusion



Rate of
intraoperative
Transfusion
=4.6%

3,446 Cases with PRBC
Transfusion

Age group	No Transfusion	Transfusion	% Transfused
< 1 month	2,620	259	9%
≥ 1 month to 1 yr	10,141	720	7%
≥ 1 - 6 yr	15,485	791	5%
≥ 6 - 12 yr	16,335	504	3%
≥ 12 yr	29,708	1,172	4%
Sex			
Female	32,405	1,445	4%
Male	41,884	2,001	5%
ASA Class			
1	13,174	124	1%
2	26,592	555	2%
3	28,411	1,551	5%
4	5,846	1,044	15%
5	263	172	40%
6	3	0	0%
Emergent Case			
No	60,958	2,610	4%
Yes	13,331	836	6%

Can we realistically intervene on anemia in the group?



Not really elective cases?



Not listed as elective



Surgical Specialty	No Transfusion	Transfusion	% of Patients OR Transfusion
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General	25,658	1,076	4%
Orthopedics	13,615	667	5%
Neurosurgery	8,267	648	7%
Plastics	3,843	318	8%
Other	9,777	290	3%
Transplant	351	177	34%
Trauma / Burn	701	104	13%
Urology	5,677	60	1%
Vascular	753	59	7%
Otolaryngology	4,594	34	1%
Oral / Maxillofacial	1,053	13	1%
Mean Surgery Duration (min)	108.83	263.41	
Mean Weight (KG)	37.80	30.78	
Mean HB Preop	11.97	10.57	
Mean Hct Preop	35.72	31.79	

Reasonable chance of intervention?

Not elective cases

94% of patients in current cohort have a preoperative hct

Hct Obtained Days Before	No Transfusion	Transfusion	% of patients with Hct
1-DOS	29,404	2,072	64%
2 - ≤ 48 hrs	8,352	443	14%
3 - 48 hr - 1 wk	4,810	262	8%
4 - 1 - 2 wks	2,592	131	4%
5 - 2 wks < 1 mo.	2,871	155	5%
6 - > 1 mo.	5,266	131	4%
7 - > 6 mo.	1,903	29	1%

} Representative of true hct?

Proposed Metric: TRAN-06-Peds

Rate of anemia in patients >30 days of age, undergoing elective, major non-cardiac surgery, who have a risk of blood transfusion estimated $\geq 5\%$, who had a hct <1 month before surgery

Participants from outside of MPOG are welcome to join our pediatric subcommittee!

Please contact Meridith if interested:

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See you in June!
(& SPA/CCAS/SPPM)