



Measure Abbreviation: TRAN 02

Measure Description: Percentage of cases with a post transfusion hemoglobin or hematocrit value less than or equal to 10 g/dL or 30%.

NQS Domain: Efficiency and Cost Reduction

Measure Type: Outcome

Measure Summary: The recognition of transfusion-related complications, such as transfusion-related infections and immunosuppression, and evidence documenting lack of efficacy has spurred the development of blood management protocols. This measure identifies blood transfusion cases when the hematocrit was $\leq 30\%$ or hemoglobin was ≤ 10 g/dL post-transfusion.

Inclusions: Any patient that receives a red blood cell transfusion. Transfusion is defined as packed red blood cells or whole blood. See MPOG Concept IDs below for complete list.

Exclusions:

- Patients < 2 years of age
- Patients <12 years old undergoing a cardiac procedure (CPT: 00560, 00561, 00562, 00563, 00567, 00580).
- Pediatric cases (<12 years old) where either the transfused PRBC or EBL was greater than 30cc/kg.
- ASA 5 & 6
- EBL ≥ 2000 ml
- Massive Transfusion: Transfusion of 4 or more units or 1200-1700 cc of blood (if units are not documented) during case

Success:

- Hematocrit value documented as less than or equal to 30% and/or hemoglobin value documented as less than or equal 10 g/dL.
- No hematocrit or hemoglobin checked within 6 hours of anesthesia end

Threshold: 90%

Responsible Provider: Individual who administered the transfusion.

Risk Adjustment (for outcome measures):

Not applicable.

References:

1. Carson JL, Grossman BJ, Kleinman S, et al. Red blood cell transfusion: a clinical practice guideline from the AABB*. *Annals of internal medicine*. 2012;157(1):49-58.

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2. Carson JL, Guyatt G, Heddle NM, et al. Clinical Practice Guidelines From the AABB: Red Blood Cell Transfusion Thresholds and Storage. *Jama*. 2016;316(19):2025-2035.
3. Glance LG, Dick AW, Mukamel DB, et al. Association between intraoperative blood transfusion and mortality and morbidity in patients undergoing noncardiac surgery. *Anesthesiology*. 2011;114(2):283-292.
4. Napolitano LM, Kurek S, Luchette FA, et al. Clinical practice guideline: red blood cell transfusion in adult trauma and critical care. *The Journal of trauma*. 2009;67(6):1439-1442.
5. Practice guidelines for perioperative blood management: an updated report by the American Society of Anesthesiologists Task Force on Perioperative Blood Management*. *Anesthesiology*. 2015;122(2):241-275.