



**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 blood management protocols. This measure aims to identify blood transfusion cases when the hematocrit was  $\leq 30\%$  or hemoglobin was  $\leq 10$  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
- ASA 5 & 6
- EBL > 2000ml
- 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.
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.

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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.