

PERFORMANCE EXCELLENCE 2020

System Clinical Advisory: Blood Product Transfusions

Adult evidence-based recommendations and resources

The American Association of Blood Banks (AABB) established restrictive criteria that are now utilized in several institutions. Effective September 4, 2017, MLH implemented the following clinical practice restrictive guidelines for packed RBCs, platelets and plasma to provide pragmatic advice to assist clinicians in making judicious decisions.

Hemoglobin cut point of ≤ 7 g/dL

Patient populations with RBC transfusion indications at Hgb ≤ 7 g/dL

Hospitalized adults who are hemodynamically stable

Note: Transfuse 1 unit of packed red cells, check hemoglobin and then transfuse as indicated

Hemoglobin cut point of ≤ 8 g/dL

Acute hemorrhage

Patients scheduled to undergo the following types of procedures:

- Cardio-thoracic
- Major vascular
- Orthopedic
- Complex abdominal

Post-op surgical patients

Patient populations with RBC transfusion indications at Hgb ≤ 8 g/dL

Signs & symptoms

- Chest Pain
- Orthostatic hypotension
- Tachycardia unresponsive to fluid resuscitation

Acute ischemic heart disease

Note: One unit of packed cells in an adult, 8 mL/kg pediatric dose, will increase hematocrit by approximately 3% and hemoglobin by 1 g/dL

Why Use 2 Units When 1 Will Do?

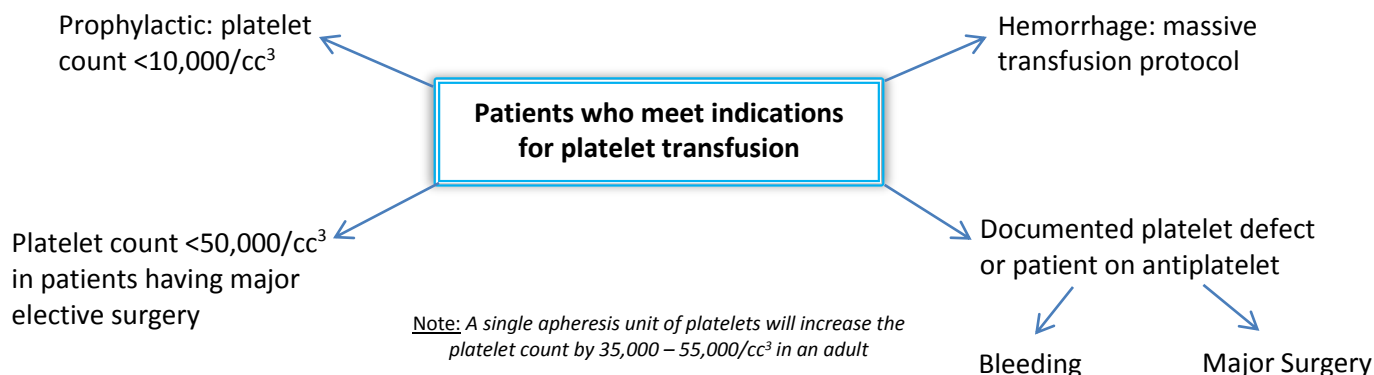
1 unit at a time



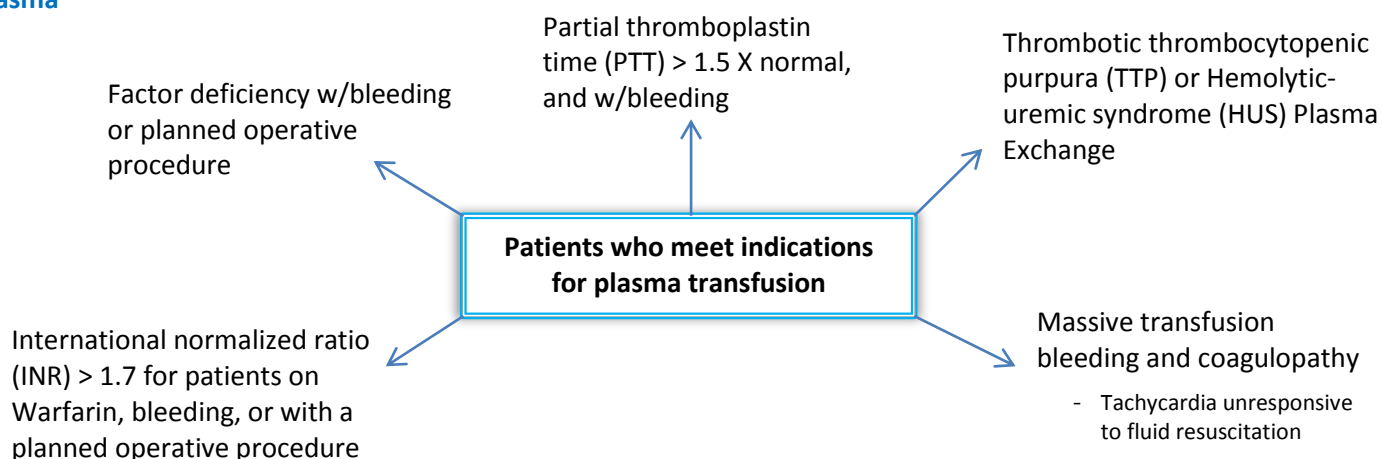
Ø 2+ units at a time



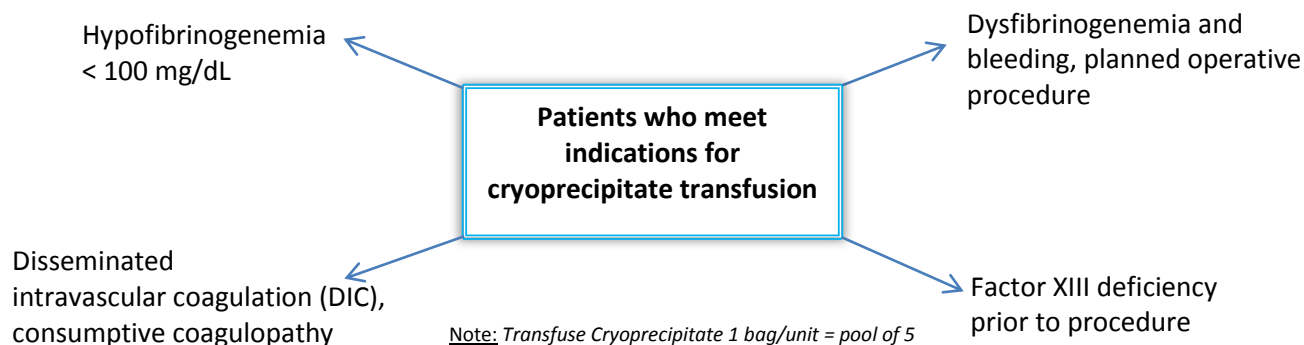
Platelets



Plasma



Cryoprecipitate



References

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4. Guidelines for Reversal of Antithrombotics in Intracranial Bleeding. *Neuro Critical Care* 2016; 24 6-46.
5. Implementing a Health System-wide Patient Blood Management Program with a Clinical Community Approach. *ASA* 2017;127(5) 754-764.
6. Indications for and Adverse Effects of Red-Cell Transfusion. *NEJM* 2017; 377(13) 1261-1272.

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