Component	Content	Volume	Expected Change in Labs	Indication/ Trigger	Goals of Transfusion
Warm Fresh Whole Blood (WFWB)	Same components in same percentages as blood loss	400-500 mL	 unit WFWB replaces all components of blood loss in similar ratio without loss of individual component function from storage. 1unit WFWB increases Hgb approximately 1 g/dL or Hct by 3%. 	Hgb < 8.0 g/dL in bleeding patient. If patient stable and not bleeding, Hgb < 6.0 g/dL; <u>or</u> Hgb < 8.0 g/dL and patient is symptomatic.	Hgb 10 g/dL, or Hct 30%
Packed red blood cells (PRBCs)	Red blood cells, preservative and anticoagulant solutions may vary. Hct of packed cells: 50%-65%; contains approximately 42.5-80 g of hemoglobin; contains approx 147-278 mg of iron.	128–240 mL red blood cells; plus contains average 50 mL donor plasma (range 20–150 mL); plus anticoagulant and preservative.	1 unit PRBC increases Hgb approximately 1 g/dL or Hct by 3% (assumes pt not bleeding or hemolyzing).	Hgb < 8.0 g/dL in bleeding patient. If patient stable and not bleeding, Hgb < 6.0 g/dL; <u>or</u> Hgb < 8.0 g/dL and patient is symptomatic.	Hgb 10 g/dL, or Hct 30%
Platelets	 Random Donor Platelets (RDP) should contain ≥5.5 x10¹⁰ platelets in 50 mL plasma. Four to 10 RDPs are pooled prior to transfusion. Platelets Apheresis – Single Donor Platelets (SDP) should contain ≥3.0 x10¹¹ (average is 3.5-4.0 x 10¹¹ per bag) in 250 mL plasma. SDP are ready for transfusion – no thawing needed. 	Platelets (RDP) - 50 mL plasma x number of RDP in the pool. Platelets Apheresis (SDP) - 250 mL of plasma.	For each RDP given – increase count 7,000-10,000/mm ³ . For each SDP apheresis pack given – increase count 30,000-60,000/mm ³	Platelets <50,000 – 70,000/ mm ³ in actively bleeding patients; <20,000/mm ³ in unstable non-bleeding patients; and <10,000/mm ³ in stable, non-bleeding patients.	>100,000/mm ³ in active bleeding patients
Fresh frozen plasma (FFP)	Non-cellular portion of blood that is separated from whole blood and frozen. Contains all coagulation factors. Dosing is based on patient current weight; or in uncontrolled bleeding, given as close as possible to a 1:1 PRBC:FFP ratio.	Approximately 200- 250 mL in one unit. Apheresis-derived units may be 400-600 mL.		PT >1.5 times the mid range of normal; aPTT >1.5 time high normal range; or factor assay less than 25%.	PT ≤ 1.5 x control; aPTT ≤ 1.5 x control; Fibrinogen > 100
Cryo-precipitated Antihemolytic Factor (AHF)	Each unit of cryoprecipitate AHF (Cryo) should contain at least 80 IU Factor VIII:C, and 150 mg of fibrinogen in 5 to 20mL of plasma. Cryo also contains Factor VIII:VWF (von Willebrand factor), Factor XIII and fibronectin.	5–20 mL per unit; see label for total number of units included.	Typical dose for stable hypo- fibrinogenemia is one unit per 7–10 kg of body weight; increases fibrinogen levels by 50 mg/dL in the absence of bleeding or consumption. In hemorrhage, Cryo may be given in increased doses of 1 unit/5 kg or 2 units/10 kg; and repeated as needed to maintain fibrinogen levels >100 mg/dL.	Fibrinogen <100 mg/dL	Fibrinogen >100 mg/ dL

Table 8: Transfusion of Blood Components: Recommendations Based on Serial Laboratory Values

mL- milliliter, Hgb - hemoglobin, g/dL - grams per deciliter, Hct - hematocrit, g - gram, mm³ - millimeter cubed, PT - prothrombin time, aPTT - activated partial thromboplastintime, IU - international units,

kg – kilogram, mg/dL – milligrams per deciliter

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