

Blood Transfusion Guidelines

Red Blood Cells

If transfusing Red Blood Cells one of the following should be present:

- Hgb ≤ 7 g/dl / Hct < 21%
- Hgb ≤ 8 g/dl / Hct < 24% in post-operative surgical patients or cardiac or cerebrovascular disease
- Rapid or ongoing blood loss
- Patient with anemia and evidence to support the need for increased oxygen carrying capacity (e.g. chest pain, tachycardia or orthostatic hypotension unresponsive to fluid resuscitation, or congestive heart failure)
- Perioperative Hgb<9 g/dl / Hct<27% and operative procedure or clinical situation associated with major, predictable blood loss
- · Outpatients chronically transfused
- Anemia and acute coronary syndrome

Platelets

If transfusing Platelets one of the following should be present (Apheresis, Leukoreduced):

NOTE: A single unit of apheresis platelets will usually increase the platelet count by 25-35,000/

- Platelet count ≤10,000/µL: prophylactic in a patient with failure of platelet production
- Platelets <15-20,000/µL in patients with hematologic malignancy or on active chemotherapy
- Platelet count ≤50,000/µL: with active bleeding on an invasive procedure (either recent, in-progress or planned)
- Platelet count ≤100,000/µL: undergoing a neurosurgical procedure or with intracranial or ocular hemorrhage
- Platelet dysfunction (inherited or acquired)
- Class IV shock/low platelet count secondary to massive transfusion (consider concurrent FFP transfusion)

Fresh Frozen Plasma

If transfusing Fresh Frozen Plasma one of the following should be present:

NOTE: Dose depends on the clinical situation and underlying disease process. When given for coagulation factor replacement a dose of 10-20 mL/kg is usually adequate; avg 3-6 units of FFP.

- Preoperative or bleeding pt with INR > 1.5 or significantly elevated PTT
- Emergent reversal of warfarin anticoagulation
- Active DIC
- Massive transfusion or large volume crystalloid infusion (for or to prevent dilutional coagulopathy)
- Other

Cryoprecipitate

If transfusing Cryoprecipitate one of the following should be present:

NOTE: Pooled into bags of 5 units

- Fibrinogen ≤150 mg/dL + hemorrhage
- Fibrinogen < 80-100 mg/dl
- Dysfibrinogenemia
- Active DIC
- Uremic platelet dysfunction
- Massive transfusion
- Other