

Medical Record No. Patient Name Birthdate Physician Please align patient label to the right

Department of Pathology and Laboratory Medicine

225 East Chicago Avenue MB 127, Chicago, IL 60611 Tel: (312) 227-0888

STAT Routine ASAP (2-3 h)	Date:	Date of surgery: Weight:kg	
Specimen Collection	Diagnosis	Consent / Location / Physician	
Date collected:		Consent obtained: Yes No	
Time: am pm	IOD 10	Location:	
Collected by: Lab RN	ICD-10		
		Attending MD:	
Dland products and laboratory toots		Indication for transfucion	
Blood products and laboratory tests Blood products		Indication for transfusion Indications for Red Cells or Whole Blood (All children greater than 4 months of age – CHECK ONE)	
Packed Red Blood Cells (Type & Screen Cros	smatch)	Acute, surgical or potential significant blood loss	
Whole unit		Signs or symptoms of anemia when alternate therapy is not available	
Aliquot mL		Pre-operative Hgb < 8 g/dL when alternate therapy is not available	
Platelets Plate		Severe cardiopulmonary disease and Hgb <13 g/dl	
Number of mLs		Priming of extracorporeal circuit = 15% of blood volume	
Pheresis units		Hemoglobinopathy and pre-operative or chronic transfusion	
Fresh Frozen Plasma		Autologous units when Hgb < 10 g/dL	
Whole unit		Chemotherapy	
Aliquot	mL	Exchange transfusion hemoglobin < 8 g/dL	
Continuous Drip FFP		Other:	
<u>Cryoprecipitate</u>		Indications for Red Cells or Whole Blood (Infants less than 4 months of age – CHECK ONE)	
Whole unit		Hemoglobin < 9 g/dL	
_		☐ Acute, surgical or potential blood les ≥15% of blood volume	
Special donor instructions		☐ Hgb ≤ to 10 g/dL and [Surgery] or [Hood O2 CPAP or ventilation] or [signs of	
Directed donor		anemia (apnea, bradycardia, tachypnea, failure to gain weight)]	
Autologous		☐ Hgb ≤ 13 g/dL and [> 35% hood O2] or [difficulty ventilating (mean airway	
		pressure = 6 cm H2O)]	
Special Requirements		Exchange transfusion for hemolysis or hyperbilirubinemia	
□ Irradiated		Other:	
Washed		Indications for Platelets (CHECK ONE)	
Washed Hyperconcentrated		Platelet count ≤10,000/µL	
Hyperconcentrated		☐ Platelet count ≤10,000/μL ☐ Platelet count ≤ 20,000/μL if fever, infection	
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BLOOD PRODUCT INDICATORS AND DOSAGE

Special Requirement	Indications
Irradiated cellular components	Neonates
	HLA-matched platelets
	Granulocytes
	Patients receiving directed Donor blood from a relative
	Bone Marrow/Stem Cell Transplant patients
	Patients with T-cell Immunodeficiencies
	o SCID
	 Wiskott-Aldrich Syndrome
	 DiGeorge Syndrome
	 Ataxia-telangiectasia
	Patients with:
	o Lymphoma
	o Leukemia
	o Aplastic Anemia
	Myelodisplastic syndromes
	Intrauterine or post-intrauterine transfusion
Washed or plasma reduced cellular components	Patients with known allergic reactions (not used for leukoreduction)
	or febrile reaction)
	 High potassium and renal failure if not dialyzed.

<u>Cryoprecipitate Transfusion (volume of one unit = 15mL)</u>

- One unit: 150 mg fibrinogen in 15 mL, or 10 mg/mL
- 1.5 mL/kg, or 1 unit/10kg, raises fibrinogen 30-40 mg/dl

Red Cell Transfusion (volume of one unit = 300mL +/- 50 mL)

Pediatric blood volume is roughly 80 mL/kg body weight. To raise hemoglobin level, use the following formula:

 $\underline{\text{# units RBC given X } 80}$ = Rise in grams of Hb/dl

Patients weight in KG

Examples for 1 unit of red cells:

Patient's Weight	Rise in Hb/dl	If transfusing infant or small child use less than or
50 kg (110 lbs.)	1.6 g/dl	equal to 10 mL red cells/kg (Hct – 60% in the red cell
30 kg (66 lbs.)	2.7 g/dl	unit).
15 kg (33 lbs.)	5.3 g/dl	

Platelets Transfusions (volume of one unit platelet concentrate = 50-70 mL/one unit pheresis platelet = 200-400 mL)

Platelet Concentrate (PC) are platelets made from 1 unit whole blood. Single Donor Pheresis platelets (SDP) are from one donor's pheresis donation. 1 SDP = approx. 5-6 PC. In nonimmunized patients without complications*, use the following formula:

Platelet # rise = 40-45,000ul per 1 SDP or 5-6 RDP SqM. Body Surface Area (BSA) Rise = 10-60 minutes post transfusion count minus pretransfusion count

Neonates (less than 10 Kg)	10 mL/kg (1 Platelet concentrate) 10 mL of platelet concentrate per kg will raise platelent count by
	100,000/ul
10-20 Kg	1/2 Platelet pheresis (1 Platelet concentrate) 1/2 platelet pheresis will raise platelent count 50,000-100,000; 1
	platelet concentrate per 10Kg to raise the platelet count 30,000-40,000/ul
20-40 Kg	½ pheresis will raise platelet count by 25,000-50,000/ul
Greater than 40 Kg	1 pheresis will raise platelet count 30,000 – 40,000

Oncology patients greater than 10 kg may receive an entire pheresis platelet. Oncology neonates less than 10kg must receive ¼ Pheresis platelet (do not use random donor platelet concentrates for oncology patients).

*Complications other than immunization which may lower platelet yield include fever, splenomegaly, sepsis, microvascular injury including DIC, trauma. These disorders usually don't affect the initial 10-60 minute yield.