Lab Dept: Transfusion Services

Test Name: PLATELET TRANSFUSION

General Information

Lab Order Codes: TPLT

Special charges:

HLA Matched-MHLA, AHLA
PLA1 Negative – PLAT, APLA1
Platelet Crossmatching PLTX – CPLT

Synonyms: Leukocyte Reduced Platelets; Random Platelets; Platelet Rich Plasma;

Platelet concentrate; Leukocyte Reduced Platelet Pheresis; Single-Donor Platelets; SDP Platelet pheresis; Apheresis Platelets; LRPH

CPT Codes: P9035 – Platelet pheresis, Leukocyte reduced

86806 - Lymphocytotoxicity assay, visual crossmatch, without titration

86813 – HLA Matched 86945 – Irradiation

86985 - Volume Reduction

86965 - Pooling

86903 - Platelet Antigen typing

86999 - Washing

86022 - Platelet Crossmatch

Test Includes: Leukocyte Reduced Platelet Pheresis consists of platelets suspended in

200-300 mL of plasma collected by cytapheresis. Each unit contains at least 3 x 10^{11} platelets, and ≤ 5.0 x 10^6 leukocytes. One pheresis unit

equals 5-6 random unit platelet concentrate.

Logistics

Test Indications: Refer to Guidelines for the Transfusion of Blood Components.

Platelet Crossmatching or HLA-Matched Platelets may be useful for patients receiving repeated platelet transfusions who have become refractile, and for patients who repeatedly develop febrile non-hemolytic

transfusion reactions after platelet transfusions.

Volume Reduced Platelets are indicated in the event that ABO - incompatible platelets must be transfused due to availability or in patients with severe fluid restrictions. Refer to Blood Component

Compatibility Chart

Lab Testing Sections: Transfusion Services

Phone Numbers: MIN Lab: 612-813-6824

STP Lab: 651-220-6558

Test Availability: Daily, 24 hours

Turnaround Time: 1 - 2 hours

Standard Dose/Volume: <10 kg: 10 – 15 mL/kg up to one unit or 50 mL maximum

10 - 15 kg: 1/3 pheresis unit

15 – 25 kg: 1/2 pheresis unit

>25 kg: 1 pheresis unit

Rate of Infusion: 10 minutes/unit, <4 hours

Administration: Must be administered through a blood component administration filter.

Volumes ≤60 mL may be issued by the Transfusion Service in

prefiltered syringes.

Crossmatch: Platelets must be ABO compatible. Crossmatch is not required.

Irradiation: Yes for specific patient populations.

Order Instructions: Indicate number of units or volume in mL's; time and dose needed; and

indication for transfusion.

Specify on the Transfusion Request Order Form special needs: Irradiate, Volume Reduce, Washed, Platelet Crossmatch, PLA1

negative, HLA matched.

Expiration: Store at 20 – 24°C with continuous agitation for 5 days. Pooled or

aliquoted platelet transfusions must begin within 4 hours of preparation.

Do Not refrigerate.

Specimen

Specimen Type: Refer to ABO/Rh if patient requires testing

Patient Preparation: The patient must have a Medical Records band for checking against the

component Unit Tag and the Transfusion Request Order Form prior to

administration.

Interpretive

Methodology: Platelets contain stable coagulation factors and labile factors V and VIII.

Refer to Blood Component General Information for greater detail.

Contraindications: Refer to Guidelines for Transfusion of Blood Components.

Circular of Information of the Use of human Blood and Blood References:

Components (2002) AABB, American Red Cross, America's Blood

Centers

11/08/2004: Note change to platelet dosage for patients <20 kg. 8/07/2007: Update for platelet dosage levels. **Updates:**

2/12/2013: CPT update

3/12/2013: Removed references to pooled platelets