General Information

Lab Dept: Transfusion Services
Test Name: PLATELET TRANSFUSION

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

<table>
<thead>
<tr>
<th>Standard Dose/Volume:</th>
<th>&lt;10 kg: 10 – 15 mL/kg up to one unit or 50 mL maximum</th>
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<tbody>
<tr>
<td></td>
<td>10 – 15 kg: 1/3 pheresis unit</td>
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<tr>
<td></td>
<td>15 – 25 kg: 1/2 pheresis unit</td>
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<tr>
<td></td>
<td>&gt;25 kg: 1 pheresis unit</td>
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**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 prefilttered 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.


Updates: 11/08/2004: Note change to platelet dosage for patients <20 kg.
8/07/2007: Update for platelet dosage levels.
2/12/2013: CPT update
3/12/2013: Removed references to pooled platelets