**Lab Dept:** Transfusion Services

**Test Name:** PLATELET TRANSFUSION

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### 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 $3 \times 10^{11}$ platelets, and $\leq 5.0 \times 10^6$ leukocytes. One pheresis unit equals 5-6 random unit platelet concentrate.

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### 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
Test Availability: Daily, 24 hours

Turnaround Time: 1 - 2 hours

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

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.


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