

# PROCEDURE

**Title:** Platelet Transfusion and Platelet Rotator

**Procedure #:** 2015BLOODBANK85

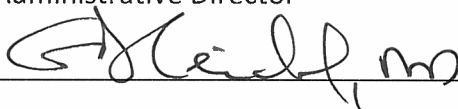
Institution: Highlands Regional Medical Center

Address: 3600 Highlands Avenue, Sebring Florida 33870

Prepared by: Anita Smith

Date: 6/12/2015

Title: Laboratory Administrative Director

Accepted by:  Date: 6/12/15

Title: Laboratory Medical Director

Date Patient Testing Implemented: 7/8/2013

Review of procedure every two years

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

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Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Discontinued testing date: \_\_\_\_\_



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**Policy Name:** Platelet Transfusion

**Department:** Blood Bank

**Departmental Review:**

**Policy #: B2.3**

**INITIATE DATE**

**DATE REVIEWED/REVISED**

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6/2014

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**PURPOSE:**

Platelet transfusion is used to prevent spontaneous bleeding or to stop established bleeding in patients with thrombocytopenia or platelet dysfunction. Platelet transfusions are not usually effective or indicated in patients with rapid platelet destruction associated with idiopathic or immune thrombocytopenia purpura (ITP) or disseminated intravascular coagulation (DIC). Platelets may be useful if given prophylactically to patients with rapidly falling or low platelet counts (usually less than 25, 000) secondary to chemotherapy. Platelet transfusion may also be useful in selected cases of postoperative bleeding, although in most cases of dilutional thrombocytopenia, bleeding halts without transfusion.

**POLICY:**

Only platelet pheresis will be used at HRMC

**PROCEDURE:**

1. Requests for platelet transfusion are submitted to the Blood Bank according to the Requisition Acceptability policy.
2. When an order for platelets is received in the Blood Bank, the Tech will check current records to determine if a current type and screen has been performed on the patient. The patient will be drawn and banded according to policy and a group, type and antibody screen performed.
3. When the Group and type of the patient has been determined, the order will be placed in the BloodHub website.
4. ABO-Identical platelets are preferred when available; however any ABO group is acceptable for transfusion.
5. Upon arrival, platelet pheresis is logged into SoftBank Inventory and placed on the platelet rotator.
6. Room temperature is monitored and logged on the Platelet Storage Temperature log sheet every 4 hours for the duration of platelet storage. The temperature MUST be maintained at 20 – 24<sup>0</sup>C. If the temperature falls outside these limits, move the platelet rotator to another location that meets these specifications.



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6/2014

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**PROCEDURE NOTES:**

- Platelet transfusion are frequently accompanied by adverse reactions, most commonly nonhemolytic transfusion reaction (NHTR). Some reactions are observed to occur on the first platelet transfusion in male patient not previously transfused.
- Platelet are stored between 20 and 24°C for up to 5 days but several studies have reported an association between longer storage time of platelet and greater number of NHTR.
- In infants platelets transfusion must be ABO compatible.

**REFERENCES:**

- AABB Technical Manual
- NHTR to Platelet concentrates: Induction by Cytokines Released during Storage, by Yang O. Huh, MD & Benjamin Lichtiger, MD, PhD: Current Issues in Transfusion Medicine



Policy Name: Platelet Rotator

Department: Blood Bank-Lab

Departmental Review:

Policy #:

INITIATE DATE  
09/2000

DATE REVIEWED/REVISED

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Reviewed by	Reviewed Date	Reviewed by	Reviewed Date
<i>[Signature]</i>	8-6-14		
<i>[Signature]</i>	S.R.K		
<i>[Signature]</i>	8-29-14		

Initial Implementation Date: \_\_\_\_\_

Taken out of Service: \_\_\_\_\_

Reason: \_\_\_\_\_

Reviewed by: *[Signature]* Date: 7/10/13

Department Supervisor

Reviewed by: *Angela Lanster* Date: 7/8/13

Department Adm. Director

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Department Chief Technologist

Reviewed and Approved by: *[Signature]* Date: 7/8/13  
Department Medical Director



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09/2000

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**PURPOSE:**

The platelet rotator is used to provide constant rotation and gentle agitation to platelets being stored prior to transfusion. The mixer maintains donor platelets in an even suspension throughout blood plasma. A fixed speed rotator turns up to 40 standard 300 ml transfer packs end over end, gently agitating the plasma to minimize cellular trauma and prevent clumping.

**PROCEDURE:**

1. Set Power switch to OFF.
2. Rotate the basket to the upright position, and then pull latch and open hinged sides.
3. Place up to 5 transfer packs into each of the 8 compartments (a maximum of 40 packs), with lead tubes up, and then close the basket.
4. Prepare a Platelet Storage Room Temperature Log for each unit and record temperature every 4 hours. and when platelets are issued.
5. Place Power switch in ON position.

**PROCEDURE NOTES:**

1. When only one or two packs are placed into a compartment, the packs may shift excessively during mixing. To prevent this, insert the supplied holding spring through loops on the bottom of packs and hook spring ends to center and end cross supports on basket.
2. During operation, switch motor off prior to removing or adding packs. Stopping rotation with hand pressure shortens motor life and will damage mechanism is prolonged for more than 30 seconds. Make sure basket latch is secured before restarting unit.

**REFERENCES:**

Fisher Scientific Platelet Mixer Model 348 Instruction Sheet



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6/2014

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<i>[Signature]</i>	5-27-15		
<i>[Signature]</i>	5-29-15		

Initial Implementation Date: \_\_\_\_\_

Reviewed by: *[Signature]* Date: 6-6-14  
Department Supervisor

Reviewed by: *Angela Lauster* Date: 6/6/14  
Department Adm. Director

Reviewed by: NA Date: \_\_\_\_\_  
Department Chief Technologist

Reviewed and Approved by: *[Signature]* Date: 6/6/14  
Department Medical Director