**Purpose:**

To describe the process used by the Harborview Medical Center (HMC) Transfusion Service to maintain the inventory of Stock Trauma Packs that are utilized during trauma response.

**Policy:**

HMC Transfusion Service will maintain a minimum inventory of stock universal donor type blood products to be the initial blood products as part of a trauma response. Stock Trauma Packs comprise a full “round” of blood products as defined by the Massive Transfusion Protocol.

**Procedure:**

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| --- | --- | --- |
| **Step** | **Action** | **Related Documents** |
| **Stock Trauma Pack Supplies and Inventory** |
| **1** | **Stock RBC Trauma Packs*** A total of 4 Stock Trauma RBC Packs shall be maintained as follows:
* Two O Pos Adult packs containing 6 units OPOS RBC
* One O Neg Adult pack containing 6 units ONEG RBC
* One O Neg Pediatric pack, containing 3 units leukoreduced ONEG RBCs that are <7 days old.
* The materials needed for each Stock Trauma RBC Pack are:
* Trauma Pack container
* Small zip-lock bag for segments
* Request for Urgent Blood Products Release form
* HMC Transfusion Record (HMC2536) for each unit
* Uncrossmatched stickers
* Trauma Log
 |  |
|  **2** | **Stock Plasma Trauma Packs*** 2 Stock Trauma Plasma Packs shall be maintained with each containing:
* 3 units of Low Titer Plasma (LTP)
* 1 Stock Trauma Plasma Pack shall be maintained containing:
* 3 units of group AB liquid or thawed plasma
* The materials needed for each Stock Trauma Plasma Pack are
* Trauma Pack container
* HMC Transfusion Record (HMC 2536) for each unit
* Low Titer Plasma stickers
 | Receiving and Processing Low Titer Plasma |
| **3** | **Stock Trauma Platelet** * 1 group A, B or AB platelet will be maintained.
	+ Irradiation is not required
* The materials needed for each trauma Platelet are
* HMC Transfusion Record (HMC 2536)
* Mini storage box with temperature stabilizers
* Do Not Refrigerate sticker
 | * Selection of Platelets, Plasma and Cryoprecipitate
 |
| **Step** | **Action** | **Related Documents** |
| **Stock Trauma Pack Preparation** |
| **1** | * Select appropriate RBCs from the general inventory:
* Adult Sets: RBCs ≥ 15 days residual shelf life
* Pediatric Set: Leukoreduced RBCs < 7 days old

NOTE: Do not select apheresis RBCs from the same donor for the same trauma pack, if possible. |  |
| **2** | In order to best utilize inventory, select plasma with ≥ 3 days residual shelf life for trauma packs in the following order: 1. Low Titer Plasma (LTP)
2. Liquid plasma: Group AB or Low Titer Plasma
3. Thawed group AB plasma

*NOTE: Do not select apheresis plasma from the same donor for the same trauma pack, if possible.* |  |
| **3** | * Select appropriate Platelet from general inventory:
	+ Group A, B, or AB
	+ Single bag apheresis
	+ Platelet age is irrelevant
 |  |
| **4** | * Remove a segment for compatibility testing:
* Apply a unit number sticker to the terminal segment
* Remove the segment and place in the zip lock bag.
 |  |
| **5** | * Complete the HMC Transfusion Record as follows for each product.
* Use the TAG function in Smart Term to prepare Transfusion Record Forms for the stock trauma pack units.
* Apply a **Low Titer Plasma** sticker to LTP plasma Transfusion Record: *Low Titer Plasma Approved for Universal Usage*
* Apply red **UNCROSSMATCHED BLOOD** sticker to RBC units (do not apply to Thawed Plasma or Platelet units)
* Apply **Do Not Refrigerate** sticker to Platelet
 | * Using TAG for Emergency Release
* Transfusion Record Form (HMC 2536)
 |
| **6** | * Rubber band the HMC Transfusion Record to the back of the unit.
* *Note: a removable adhesive label is not required for trauma pack units as there is no pertinent patient information to be verified.*
 |  |
| **7** | **Portable Refrigerator Response Log:*** Enter unit numbers on Portable Refrigerator Response Log by product type
* Place an LTP sticker to the left of the LTP plasma unit numbers.
* Two Person verification must be used to confirm units, paperwork, and segments before placing the trauma pack into use.
* Record tech ID of preparer and verifier at the bottom of the log.
 | * Portable Refrigerator Response Log
 |
| **8** | **Request for Urgent Blood Products Release form:*** **RBCs Only**
* Check both of the “Life threatening blood loss” boxes, i.e. The uncrossmatched group O RBC, and uncrossmatched type specific RBCs boxes.
 | * Request for Urgent Release of Blood Products Form
 |
| **Step** | **Action** | **Related Documents** |
| **9** | **RBCs*** Place the following into the Stock Trauma RBC Pack container:
* Units labeled with Transfusion Record Form in the order they appear on the Portable Refrigerator Response Log
* Zip Lock Bag with segments
* Request for Urgent Blood Product Release form
* Portable Refrigerator Response Log
* ***Note:*** *Paperwork should be sealed in a plastic bag*

**Plasma*** Place in a large zip lock bag:
* Units labeled with Transfusion Record Form
* Portable Refrigerator Response Log
 |  |
| **10** | * Store RBC and Plasma packs in the designated storage area.
* Place the Platelet, Transfusion Record, and Portable Refrigerator Response Log on the top shelf of the Platelet Storage Unit.

**Note:** Paperwork should be on top or to the side of the platelet in order to allow for sufficient air flow around the bag. |  |
| **Stock Trauma Pack Return into Inventory** |
| **1** | * When the Stock Trauma Packs are returned with a Portable Blood Refrigerator:
* Determine if any units in the Stock Trauma Pack were issued.
* Replace any missing Trauma Pack components with new stock and new paperwork following steps 1-10 above.
* Return Stock Trauma products to appropriate storage.
* Transfused Products:
	+ Forward Portable Refrigerator Response Log (with RBC segments, if applicable) to a CT Tech.
 |  |
| **Stock Trauma Pack Rotation** |
| **1** | * Adult Stock Trauma RBC Packs:
* Remove RBC units with < 15 remaining shelf life & replace.
* Pediatric Stock Trauma RBC Packs:
* Remove units > 7 days old and replace.
* Stock Trauma Plasma Packs
* Remove plasma with ≤ 2 days remaining shelf life and replace.
* Stock Trauma Platelet
* Replace platelet with 1 day.
 | * Using Blood Bank Inquiry in Sunquest
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**References:**

Standards for Blood Banks and Transfusion Services, Current Edition. American Association of Blood Banks. AABB Press, Bethesda, MD.