**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 O POS RBC
* One O Neg Adult pack containing 6 units O NEG RBC
* One O Neg Pediatric pack (patient <1 yr old), containing 3 units leukoreduced O NEG 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
* UW Medicine Transfusion Record for each unit
* Uncrossmatched stickers
* Portable Refrigerator Response Log
 |  |
| 2 | **Stock Low Titer Whole Blood (LTWB)Trauma Packs*** O pos or O neg LTWB trauma packs will be prepared when inventory allows
* Each LTWB Trauma Packs should contain 2-3 units of O pos or O neg LTWB
* Do not mix O pos and O neg in the same trauma pack

The materials needed for each Stock Trauma RBC Pack are:* Large Zip Lock Bag
* Small zip-lock bag for segments
* Request for Urgent Blood Products Release form
* UW Medicine Transfusion Record for each unit
* Uncrossmatched stickers
* Portable Refrigerator Response Log
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| 3 | **Stock Plasma Trauma Packs**1 Stock Trauma Plasma Packs shall be maintained 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* Large Zip Lock Bag
* UW Medicine Transfusion Record for each unit
* Low Titer Plasma stickers
* Portable Refrigerator Response Log

*Note: For inventory control purposes, LTP and AB can be in the same pack.* | Receiving and Processing Low Titer PlasmaReceiving and Processing Liquid Plasma |
| 4 | **Stock Trauma Platelet** 1 group A, B, AB, or Low Titer Group O platelet will be maintained.* + Irradiation is not required

The materials needed for each trauma Platelet are* UW Medicine Transfusion Record
* Mini storage box with temperature stabilizers
* Do Not Refrigerate sticker
* Portable Refrigerator Response Log
 | Selection of Platelets, Plasma and CryoprecipitateReceiving and Processing Low Titer Platelets |
| **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, AB or Low Titer Group O
	+ 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 UW Medicine Transfusion Record as follows for each product.Apply red **UNCROSSMATCHED BLOOD** sticker to Whole Blood and RBC units and Transfusion Tag (do not apply to Thawed Plasma or Platelet units) | Using TAG for Emergency ReleaseUW Medicine Transfusion Record Form (UH3363) |
| 6 | Rubber band the UW Medicine 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:*** Begin a new log any time units have been removed and/or replaced.
* Place unit number sticker on Portable Refrigerator Response Log by product type
* Document component Ecode including division
* Place an LTP sticker to the left of the LTP plasma unit numbers, or write down “LTP” next to each LTP unit numbers.
* Circle or place a Low Titer Whole Blood sticker to the left of the LTWB 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 |
| **Step** | **Action** | **Related Documents** |
| 8 | **Request for Urgent Blood Products Release form:****RBC and whole blood only*** Check 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 |
| 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
* Place in a large Zip Lock Bag
* Labeled segments
* Request for Urgent Blood Product Release form
* Original and photocopy of Portable Refrigerator Response Log

**Whole Blood*** Place in a large Zip Lock Bag
* Units labeled with Transfusion Record Form
* Labeled segments
* Request for Urgent Blood Product Release form
* Original and photocopy of Portable Refrigerator Response Log

**Plasma*** Place in a large zip lock bag:
* Units labeled with Transfusion Record Form
* Original and photocopy of Portable Refrigerator Response Log
 |  |
| 10 | Store RBC, Whole Blood, 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 an MLS.
 |  |
| **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.

***Note:*** *Short date trauma packs may be made/kept for inventory purposes.* | SQ Using Blood Bank Inquiry  |

**References:**

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