**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 |

**References:**

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