**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, 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 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 * UW Medicine Transfusion Record for each unit * Low Titer Plasma stickers | Receiving and Processing Low Titer Plasma  Receiving and Processing Liquid Plasma |
| 3 | **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 | Selection of Platelets, Plasma and Cryoprecipitate  Receiving 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.   * 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  UW 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:**   * 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 MLS 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. | SQ Using Blood Bank Inquiry |

**References:**

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