QUICK TIP

MASSIVE TRANSFUSION PROTOCOL (MTP)

Protocol Initiation:
When it is determined that the Massive Transfusion Protocol will be activated for a patient, the provider or nurse (via verbal order mode) will enter the appropriate transfusion order set. You can search for the orders by typing MTP. The initial protocol order set activation will also automatically order the first round of MTP lab work.

- **Massive Transfusion Protocol Blood Preparation** order set
  - All of the orders are filled in on the order set- so the provider or nurse should be able to just sign the order set
  - Protocol may also be activated by phone call placed to Transfusion Services, but use of EMR will facilitate faster preparation of blood products. *The care team will still need to place order in the EMR at some point if they elect to activate by calling Transfusion Services*

- Order set includes initial MTP lab panel
  - Shock Panel will print as both Arterial and Venous, send appropriate sample based on access

- Note the text under the “Attention” within the order itself that tells the user they must call Transfusion Services to coordinate the request and if the type and screen has not been completed, the ATTENDING must sign the Emergency/Conditional Release form, which can be sent from Transfusion services.
Clinical team must call Transfusion Services to notify of MTP activation and provide the following information:
- Patient’s name, MRN (Medical Record Number) and/or CSN
- Gender
- Attending physician initiating protocol
- Current patient location
- Contact person /phone # or pager,
- Specify if OB/GYN patient.
- Send Emergency/Conditional Release Form M3151.

**NOTE:** Needed when patient does not have an active Type & Screen

**Blood Product Retrieval:**
A staff member (runner) will have to go to Transfusion Services to pick up the blood as the blood is dispensed in coolers and cannot be tubed to the nurse station. Send completed *Emergency/Conditional Release Form M3151* (if required) with runner to Transfusion Services to obtain the blood cooler with blood products. The runner will need to provide to Transfusion services patients name, MRN and/or CSN, and DOB.

**Administration:**
During activation, the only documentation required is the *double nurse signature* on the white product ID tags that accompany the blood products along with a protocol *start time and stop time* listed on the first and last unit administered. **NO PRODUCT SCANNING IS REQUIRED DURING PROTOCOL ACTIVATION.**
- If additional blood products (rounds) are required, all that is needed is a “rolling call” to transfusion service to notify them that runner is enroute to pick up additional blood products
  - MTP will be dispensed as “rounds” with each round having a specific number of blood products. However the provider has the option to alter based on individual patient needs
    - Round 1 – 4 units RBC, 4 units Plasma
    - Round 2 – 8 units RBC, 8 units Plasma, 1 unit Platelet, 1 unit Cryo
    - Round 3 – 8 units RBC, 8 units Plasma
• Please make every attempt to transfuse as a balanced ratio
  ▪ For every 1 unit of RBC, give 1 unit of Plasma
  ▪ For every 8 units of RBC, give 1 unit of Platelets

• If the patient’s condition requires use of the protocol for a prolonged period of time, every 30 minutes the primary nurse will order Massive Transfusion Protocol Lab Panel (Arterial or Venous depending on access) for Q30min lab work during protocol activation. The order should be entered as “per protocol, no co-sign required” as initial order includes Nursing order for Q30 min labwork.

  o Note: Lab error warnings may appear as you enter or collect the subsequent labs since you are entering the same labs so close together in time. When it asks you if you want to continue, click Yes.

Post-Protocol Documentation Requirements:
  1. Save all white Product ID Tags and give to the Unit HUC so they can be scanned into patient medical record
  2. The nurse will document all of the blood products administered in the Blood Admin flow sheet under the new Massive Transfusion Protocol rows. The Massive Transfusion Protocol group will automatically show on the Blood Admin flow sheet once the order set has been ordered.
b. The primary nurse will indicate the total number of units of each blood product given. The volume fields will fill in automatically based on the calculation of the average volume of each product. Only document units completed, if a unit is hanging as you transfer the patient, the receiving unit will document it after completion.

3. PARTIAL UNIT VOLUME DOCUMENTATION:
   a. If you only transfused a partial unit due to a change in patient condition or provider decision, document the total number of complete units as noted above and then add second entry with a comment in the comment field to indicate which unit and what partial volume that was infused
      i. IE – 4th unit 200ml infused

   ii.

4. Once the MTP protocol ends or the patient is moved to another unit (such as moving from the ICU to the OR) the provider or nurse (via verbal order mode) will enter order for Post-Massive Transfusion Protocol Transfusion Order. Only enter in the actual blood products administered on the unit.

   a. This is meant as a “catch up” transfuse order and allows the team to place an order for the number of units their unit administered during MTP activation. This is for documentation purposes only for the blood products given on the unit and does not cancel the MTP itself. The protocol will remain active as the patient transfers to other units. This order is used to document the number of units that were ordered to be transfused on their unit.
b.  
  i. Enter the number of units for each type of blood product. You must complete all sections (IE if no Cryo was given, put “0”)

**Protocol Discontinuation:**
Please call Transfusion Services to notify them once patient condition no longer requires MTP protocol activation and return all coolers.