

SHR Adult Massive Transfusion Protocol (MTP) SCH Site

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Clinical 'Team Contact' Role

One bedside individual assigned by the physician lead activating the MTP to communicate with the Transfusion Medicine Lab (TML) who:

- Notifies TML (#8204) of the MTP activation.
- Provides patient identification (name, HSN, sex), care team location, contact phone #, and name of physician lead.
- Records TML technologist contact name and time of MTP activation.
- Confirms group, screen & crossmatch sent to TML.
- Ensures MTP Panel sent every 30 minutes.
- Updates TML at least every 30 minutes.
- Informs TML of any change in patient location, contact phone #, team contact individual, or physician lead.
- Calls TML as soon as the MTP is discontinued by the physician lead.
- Ensures coolers returned to TML ASAP.

Treatment considerations:

- If INR >1.5 or aPTT >40 and hemoglobin stabilizes, prioritize plasma transfusion over red cells
- If fibrinogen <1.5 g/L consider cryoprecipitate 10 units or fibrinogen concentrate
- If platelets <75x10⁹/L consider an additional dose of platelets
- If ionized Ca⁺⁺ <1mmol/L give
 2 g calcium gluconate (slowly)
- Based on results, MTP box contents may be customized upon request

If patient is on anticoagulants, or other transfusion advice is required, consult the on-call Transfusion Medicine Physician (switchboard – #8000)

Identify and manage bleeding Collect Group, Screen & Crossmatch; CBC, Coagulation samples (aPTT, INR, Fibrinogen) STAT Massive bleeding criteria met: >4.5 L of blood loss in 30 minutes OR >150mL/minute bleeding with loss of over half the circulating blood volume **NOTIFY TML OF MASSIVE TRANSFUSION** PROTOCOL ACTIVATION (#8204) Tranexamic acid 1 gram IV over 10 minutes in all patients within 3 hours of injury, followed by 1 gram IV infusion over 8 hours in trauma patients Pick Up MTP Boxes and Transfuse warm red cells and plasma with Level 1 Rapid infuser (do NOT warm platelets) MTP BOX 1* Collect 4 units red cells 'MTP panel' 4 units plasma 1 adult dose platelets bloodwork every 30 minutes and review results to Alternate guide treatment MTP Box 1 and 2 until MTP Panel includes: clinical - CBC situation is - INR/aPTT resolved - Fibrinogen - Venous blood gas - Ionized Calcium - Point of care testing MTP BOX 2 (TEG), if available upon 4 units red cells Perfusionist arrival 4 units plasma *Box 1 may arrive without plasma at MTP initiation (~25 min delay to allow for thaw, unless liquid units available)

Contents of MTP Boxes must be transfused within 4 hours of issue.

Transfusion Medicine WILL CONTINUE preparing boxes unless notified that MTP is discontinued.

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Approved Related Procedural Document: TML-97 Massive Transfusion Protocol (Adults) - Informational Document