

Massive Transfusion Policy (MTP) Quick Guide

Triggers for Initiating MTP

1. Any patient receiving blood products to maintain SBP en route
2. Assessment of Blood Consumption (ABC) Score Comprised of four components:
 - a. SBP less than 90 mm Hg
 - b. HR greater than 120 bpm
 - c. Positive Focused Assessment Sonography in Trauma (FAST Exam)
 - d. Penetrating torso injury
 - e. A score of 2 or greater on the ABC Score indicates a need initiate the Massive Transfusion Protocol.

Designation of Person Responsible for Triggering MTP

- Primary team
- Intensivist Team
- ED, Anesthesia

Initiate MTP

- Initiate Trauma Page for MTP Activation.
- Identify patient and MRN.
- Blood Bank to set up cooler #1 containing
 - 5 units PRBC
 - 5 units plasma (do not delay issuing cooler if less than five units are available)
 - 1 unit apheresis platelets (to accompany cooler, but not placed in cooler)
- Cooler #2 to contain
 - 5 units PRBC
 - 5 units plasma
- Ordering department to pick up cooler
- Blood products will be transported with the patient.
- Repeat, alternating #1 and #2, until MTP deactivated.

Lab Studies

- All labs will be performed STAT or via Point of Care Testing where available.
- CBC, PT/PTT, Basic Metabolic Panel, ionized Calcium, Lactate and Arterial Blood Gas (ABG) – every 4 hours *or* after each cooler *or* whichever comes first.
- Fibrinogen level after 10 units PRBC
 - Give cryoprecipitate 10 units (after every 2 coolers) for fibrinogen level less than 100 mg/dL.

Hemostasis

- If bleeding controlled, deactivate MTP.
- If bleeding uncontrolled, continue MTP.
- With continued ooze:
 - Give plasma for INR greater than 1.6.
 - Give platelets for platelet count less than $50 \times 10^9/L$.
 - Consider rFVIIa (recombinant Factor VIIa) – requires Attending approval.

After Stabilization

- Deactivate MTP.

- Return cooler with any unused units to the Blood Bank.
- Draw labs:
 - PT / Fibrinogen / CBC / BMP / iCa
 - At least every 6 hours and PRN for 24 hours
 - Then every 12 hours for 24 hours.