 MASSIVE TRANSFUSION PROTOCOL

IF YOU ANTICIPATE EMERGENT NEED FOR LARGE AMOUNTS OF BLOOD IN A SHORT PERIOD OF TIME
Call Blood Bank: 662-2121
Tell them you have a patient who needs a Massive Transfusion and activate the Massive Transfusion order in EPIC

YOU WILL BE ASKED:
Patient’s name or MRN, date of birth, gender, current location, and name and number of contact person
SEND A RUNNER TO THE BLOOD BANK
THE BLOOD BANK WILL PLACE PRODUCT, INFUSION, AND LAB ORDERS

ROUND #1
4 u uncrossmatched RBC’s (Type O Rh neg) or crossmatched if available.

RE-IDENTIFY CONTACT PERSON IF YOU HAND OFF PATIENT TO ANOTHER LOCATION!
(e.g. ED to OR, SCU or other destination)
AND Communicate to Blood Bank!

SUBSEQUENT ROUNDS
1:1 RBC:FFP
(or as close to that ratio as possible)
4 u crossmatched RBC’s
4 units plasma

Keep the Blood Bank informed during the entire process including the anticipated end.
1. If INR > 2.0: Give 3 additional units FFP
2. If fibrinogen < 150 mg/dL: give 10 units cryoprecipitate
3. Calcium: After the first 4 units RBC’s give with each 1-2 units: Calcium gluconate: 10 ml (~5 meq) Calcium chloride: 3 ml (~5 meq)
4. If pH < 7: give NaHCO₃ 50 meq
5. Permissive hypotension
6. Normosol R: OK with blood products and is associated with less hyperchloremic acidosis than NS
7. Recombinant Factor VIIa: See details on right
8. Consider use of cell saver
9. CMP, Mg, ionized Ca, ABG prn

**LABS AND OTHER RECOMMENDATIONS**

Each cooler will come with green bags with proper tubes for labs to be drawn after each round of products.

**LABS AFTER EACH ROUND OF BLOOD PRODUCTS**

Blue and purple top tubes and slips will come up in green zip-lock bags in each green cooler from Blood Bank for the following studies:

1. Massive Transfusion Coag Panel (INR, PTT, Fibrinogen, Plat Ct),
2. CBC

*Label the tubes and send them back to the lab in the green zip-lock bags. When they see the green bag they process the sample STAT.*

**PLATELETS**

1 dose every 10-12 units RBC in consultation with Blood Bank
*(contingent upon platelet inventory and control of hemorrhage)*

**Recombinant factor VIIa** may be considered IF the patient has failed traditional transfusion support and continues to have life threatening bleeding AND meets all of the following REQUIRED criteria:

1. pH > 7.2
2. Platelet count > 50 K (preferably 100 K)
3. Body Temp > 33°C
4. Fibrinogen > 100 mg/dL

*rFVIIa Dose* = 20 mcg/kg, may be repeated once after 1 hour. Doses will be rounded by pharmacy to the nearest vial size. Call Pharmacy STAT line: 662-3333 for factor VIIa.