AT THE FOREFRONT
UChicago Medicine

TO: Medical Staff, House Staff, Patient Care Centers

FROM: Gunta Musa, MHA, MT(ASCP)SBB
Technical Director, Blood Bank

Geoffrey Wool, M.D., Ph.D.
Interim Medical Director, Blood Bank

DATE: 7/13/2020

RE: Change to Massive Transfusion Protocol (MTP)

The UCM Blood Bank has purchased and validated improved coolers that will allow us to change the configuration of the MTP pack.
As of 7/24/20, the MTP pack will now contain

- Six packed red blood cell units
- Six thawed plasma units
- One plateletpheresis unit

One pool of cryoprecipitate can be requested per MTP pack; this is unchanged.

The new MTP coolers are validated to maintain blood products at proper storage temperatures for up to 12 hours.

This new MTP pack better matches the transfusion practices of our Trauma and Anesthesiology services. There is some randomized control trial data that transfusing ≥1 plasma unit per 1 RBC unit improves survival in civilian trauma patients and exsanguinating cardiac surgery patients (References).

The MTP configuration is not customizable; the new ratios listed above are the only configuration available during MTP activation. The details of MTP activation, procurement, utilization, management, and documentation are available in “Emergency Release and Massive Transfusion Protocol” (UCM Policy Number PC 235).

For questions, please contact Gunta Musa, Manager, at 773-702-1438, or Geoffrey Wool, MD PhD, Interim Medical Director, at 773-926-1455.

References

1. Holcomb JB, Tilley BC, Baraniuk S, et al. Transfusion of plasma, platelets, and red blood cells in a 1:1:1 vs a 1:1:2 ratio and mortality in patients with severe trauma: the PROPPR randomized clinical trial. JAMA. 2015;313(5):471-482
2. Delaney M, Stark PC, Suh M, et al. Massive Transfusion in Cardiac Surgery: The Impact of Blood Component Ratios on Clinical Outcomes and Survival. Anesth Analg. 2017;124(6):1777-1782.