Massive Transfusion Protocol Improvement in Level I Trauma Center Chrissie Schaeffer, DNP, APRN, ACCNS-AG, CEN, TCRN, Carol McGovern, MSN, CEN, CPEN, TCRN, Kimberly W. Sanford, MD, MASCP, Medical Director, Transfusion Medicine Virginia Commonwealth University, Richmond, VA

ABSTRACT

Background:

- An opportunity for improvement was identified in practice and in the activation of MTP. Locations that rarely utilized MTP demonstrated prolong period of time from order to time administered. The PI project sought to establish a standardized process across the hospital in ordering, procuring and administering blood products from MTP. There are about 175 MTP activations annually. The PDSA cycle started November 2020.
- **Purpose:** To Improve team performance in "order to hang" times, decrease wastage of blood products and increase knowledge of best practices in MTP event response.

Methods:

 Lean Principles in conjunction with the IHI Model. Multiple PDSA cycles for project design. Multidisciplinary taskforce met weekly to address gaps and barriers in the current MTP process.

Implemented changes in a phased manner

VCUHealth. ADULT MASSIVE TRANSFUSION PROTOCOL Call *500 Activate Team Roles Designate Communicate still on MTP Evaluate Scan HERE to view protocol Blood Bank 628-2595 Transportation 628-0524 Runner ASCOM 663-4765 nterventional Radiology 628-1115 MTP Protocol

The success of the Massive Transfusion Protocol was contingent on a dedicated runner, ongoing education and a timely review of each MTP activation.





Results:

 138 activations from Jan-Sept 2020. Since start of PDSA cycle 186 activations. Consistent process for product delivery was maintained with a dedicated runner and the establishment of a rapid infuser RN expert. There was a 5% waste prior to start of the PDSA with a decrease to 3% since the implementation of these changes.

Conclusion:

Adjustments were made on a smaller level before expanding to the larger organization. Support and commitment for response process has sustained. The establishment of a MTP response team with defined roles and responsibilities has proven to be a positive experience in our organization with great implications in improved patient care and team communication.