# Eligibility

Blood Bank Staff: Please complete the following Inclusion/Exclusion criteria for any trauma patient for who the Massive Hemorrhage Protocol (MHP) has been initiated.			Ø
#	Inclusion Criteria	Yes	No
1.	Estimated age greater than 16 years old		
2.	Severely injured (penetrating or blunt) trauma patients.		
3.	Triggered MHP within first hour of hospital arrival at the trauma bay/ED		
#	Exclusion Criteria	Yes	No
4.	Have received more than 2 U RBCs during the pre-hospital phase of care		
5.	Have received more than 2 U RBCs in the trauma bay/ED before activation of the MHP		
6.	Have an elapsed time from injury of more than 3 hours		
7.	Have a penetrating traumatic brain injury with Glasgow Coma Scale (GCS) of 3		
8.	Are suspected or known to be on anticoagulants in the last 7 days		
9.	Have known congenital or acquired bleeding disorders		
10.	Have a known pregnancy		
11.	Refuse blood transfusion due to religion or other reasons		
12.	Previous history of heparin induced thrombocytopenia (HIT)		

## FiiRST-2 Packs

#### **Control Arm**

- [pack 1]
  - 1 tube of 4 RBCs
  - 1 tube of 2 FP
  - 1 tube of 2 FP
- [pack 2]
  - 1 tube of 1 plt
  - 1 tube of 4 RBCs
  - 1 tube of 2 FP
  - 1 tube of 2 FP

#### **Intervention Arm**

- [pack 1]
  - 1 tube of 4 RBCs
  - 1 tube of 2000 IU PCCs
  - 1 tube of 4g FC (in 1g syringes)
- [pack 2]
  - 1 tube of 1 plt
  - 1 tube of 4 RBCs
  - 1 tube of 2000 IU PCCs
  - 1 tube of 4g FC (in 1g syringes)



Pack 3 onward as per hospital

## The Ask from the Department

- Patients will be included in the trial by the Trauma Team
- Trauma Surgeon will inform case anesthesiologist of trial eligibility
- If trial has started, please complete transfusion of pack 1 or pack 2 if started
- If needed, transfuse pack 2 if needed
- After pack 2, can order blood products as needed
  - Can continue ExP or convert to MTP
- Can stop transfusing at any time if patient stabilizes and no longer needs ExP

# Trial blinding and unit checking

- Trauma surgeon an ICU care team to be blinded
- Units will be labeled: "Pack 1A, Pack 1B, Pack 1C" and "Pack 2A, etc"
- Inform ICU and/or trauma surgeon which packs have been transfused
  - This blinds the future care providers to what was given
  - Ex: "The patient was given all of packs 1 and packs 2, as well as 2 units PRBCs, 2 units FFP, and 8 g Fibrinogen"

₱   FiiRST-2	PACK: 1A □	1B 🗆	2A □	28 □
************ Mainta	ain the Blind *	*****	****	8:
Time Started:				
All Products Transfused	d: Yes □ No □	l Initi	als:	

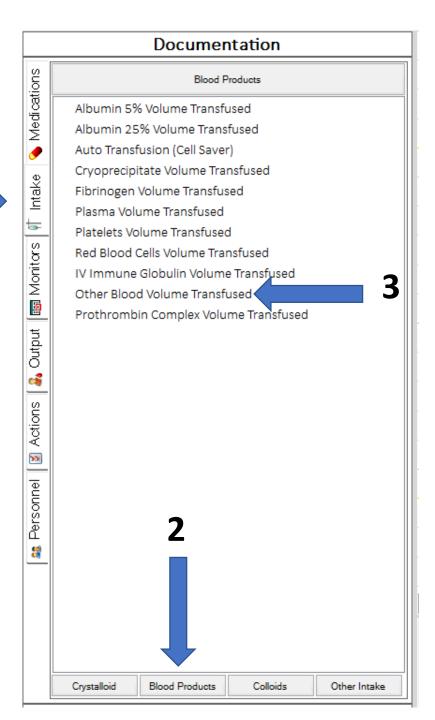
- Patient has ExP activated in ER and comes straight to OR before receiving any blood products
- Blood products routed to OR
- Please transfuse all blood products as received from the ExP if needed
- Continue ExP or convert to MTP after packs 1 and 2 administered

- Patient has ExP activated in ER and received part of pack 1 (2 units PRBCs), then brought stat to OR
- Blood products routed to OR
- Transfuse remainder of Pack 1 (PRBC x 2, FFP x 4 or PCC+Fib) and Pack
   2 if needed
- Continue ExP or convert to MTP after packs 1 and 2 administered

- Patient has ExP activated in ER and received all of pack 1 (4 units PRBCs, 4 units FFP or PCC+Fib), then brought stat to OR
- Blood products routed to OR
- Transfuse pack 2 (PRBC x 4, FFP x 4 or PCC+Fib, Plts x 1) if needed
- Continue ExP or convert to MTP after pack 2 administered

- Patient has ExP activated in ER and received all of pack 1 (4 units PRBCs, 4 units FFP or PCC+Fib), and part of pack 2 (PRBC x 2), then brought stat to OR
- Blood products routed to OR
- Transfuse remainder of pack 2 (PRBC x 2, FFP x 4 or PCC+Fib, Plts x 1)
  if needed
- Continue ExP or convert to MTP after pack 2 administered

- Patient has ExP activated in ER and received all of pack 1 (4 units PRBCs, 4 units FFP or PCC+Fib), and all of pack 2 (PRBC x 4, FFP x 4 or PCC+Fib, Plts x 1), then brought stat to OR
- Blood products routed to OR
- Continue ExP or convert to MTP after pack 2 administered



## Charting in SA-Anesthesia

