

PED Low Titer O+ Whole Blood

History

- What was the mechanism of injury – blunt (MVC, fall, blow to body) vs. penetrating (stabbing, GSW, foreign body)?
- Did a medical condition contribute to the mechanism of injury? Other medical conditions?
- Medications – Coumadin? Plavix? Aspirin? Pradaxa? Xarelto? Eliquis? (any blood thinners or anticoagulants)

Key Concepts

- Low Titer O + Whole Blood is now being used to treat severely injured trauma patients who have or are at risk for severe hemorrhage

MARCHES Protocol

- Massive bleeding control
- Airway – NPA/OPA/ Cric
- Respiratory – decompress chest if tension pneumothorax, occlusive dressing for open pneumothoraces
- Circulation- IV/IO Tq, pelvic binder, wound packing
- Hypothermia care
- Eye injuries – cover with rigid shield and no pressure on the eye
- Spinal motion restriction if indicated

Medical Patients in Hemorrhagic Shock

- Less likely for children but consider the same medical causes for hemorrhagic shock as in adults

Criteria

HEMORRHAGIC SHOCK in medical or trauma Adult and Pediatric (≥ 6 yo) patients

Relative Contraindications

- Patient < 6 years old
 - Consult Medical Direction if patient is in hemorrhagic shock and < 6 yo
 - Medical Director may elect to give blood in this patient population
 - Religious objection to receiving whole blood—consult On Call Medical Director

EMT

- Follow Trauma General Patient Care Guideline
- Follow appropriate Trauma Guideline

Paramedic

For Patients in HEMORRHAGIC SHOCK:

Administer Whole Blood with signs of acute hemorrhagic shock as evidenced by:

- Systolic blood pressure < 70 mmHg **OR**
- Systolic Blood Pressure < 90 mmHg with Heart Rate ≥ 110 beats per min **OR**
- ETCO₂ < 25 **OR**
- Witnessed arrest from hemorrhagic shock < 5 min prior to provider arrival and continuous CPR throughout downtime

In general only 500mL (1 unit) of Low Titer O+ Whole Blood (LTO+WB) will be available per patient. If more than 500 mL of Whole Blood is available on scene the following general guidelines apply:

- 5-10 yo are eligible for 500 mL of Whole Blood
 - Consult Medical Direction for further orders, if needed
- 11-13 yo are eligible for 1000 mL of Whole Blood
 - Consult Medical Direction for further orders, if needed
- ≥ 13 yo are eligible for >1000 mL of Whole Blood
 - Consult Medical Direction for further orders, if needed

Of Note: At this time the LTO+WB does not have unit markings on the bag.