GOALS

Whole Blood w/ARC Administration (Adult)

- Initiate early resuscitation with whole blood to provide rapid correction of anemia, coagulopathy, acidosis, and hypothermia
- Use warmed whole blood to replace the loss of the oxygen carrying capabilities due to hemorrhage and treat all four parts of the Death Diamond of Trauma: Coagulopathy, Acidosis, Hypothermia, Hypocalcemia
- Provide direct replacement of all blood components at once with administration of whole blood, minimizing complications and complexity of component therapy
- Indications for medical etiology may include: GI Bleed, OBGYN emergencies (ruptured ectopic pregnancy, severe vaginal bleeding, etc.), vascular emergencies (uncontrolled bleeding from shunt, fistula, etc.), hemorrhage secondary to recent major surgery, or other medical hemorrhage situations
- Keep trauma patients covered, well oxygenated, and stop active hemorrhage
- Any trauma patient with concern for hemorrhage and a systolic blood pressure ≤ 70 mmHg may receive
 Whole Blood administration
- Patients still showing signs of shock after the administration of 1 unit of Whole Blood may receive 1 additional unit of Whole Blood if available, with Medical Control Order only
- Large bore IV/IO 20g or higher is required for blood transfusion
- Do not give medications through the whole blood IV/IO set
- Utilize alternate access for medication administration via IV/IO while blood products are being administered
- Clinical criteria for whole blood may include anticoagulant medications (not anti-platelet):
 - Anticoagulants include: Heparin, Lovenox, Coumadin, Eliquis, Xarelto, Paradaxa, etc.
 - o Antiplatelets include: Aspirin, Plavix, Effient, Aggrenox, Ticlid, etc.
- Contraindications to ARC Bundle: Time of Injury > 1 hr, Hemorrhage from Medical Etiology

SPECIAL CONSIDERATIONS

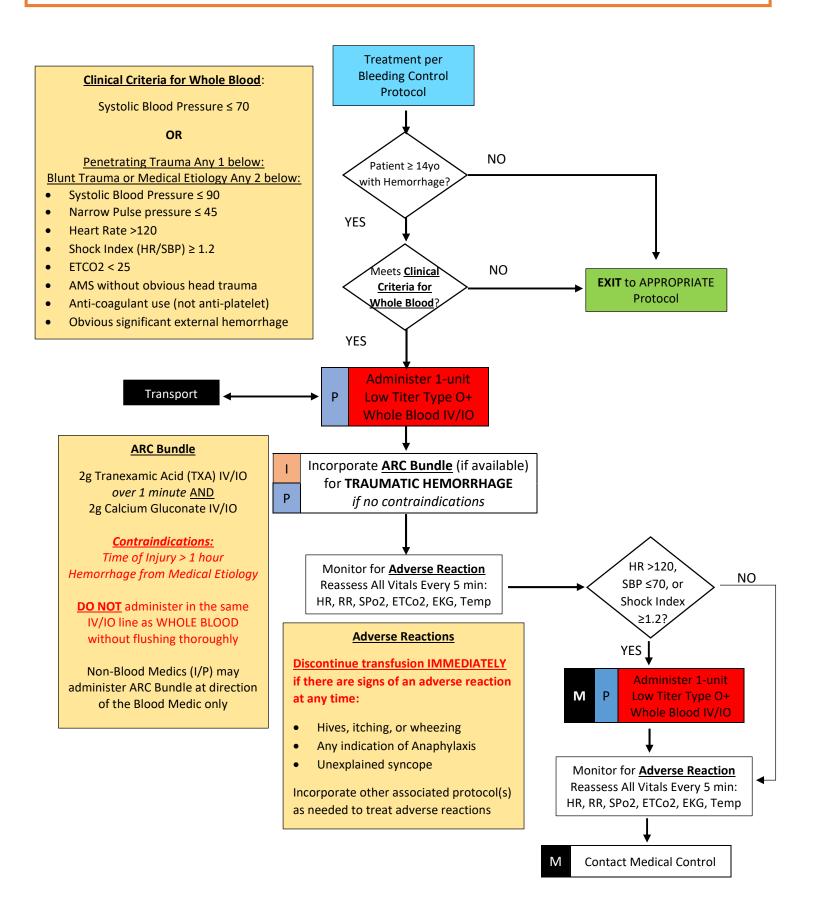
- Individual and/or agency use requires OMD approval and successful completion of a TEMS OMD committee approved course
- Transport should not be delayed for the administration of Whole Blood
- Transport to the closest appropriate facility based on trauma center criteria and TEMS trauma triage plan
- Stop the transfusion immediately if a patient shows signs of an adverse reaction at any point, monitor the patient closely, and incorporate other appropriate protocol(s) as needed
- If whole blood is immediately available, consider attempting resuscitation and incorporating this protocol on patients experiencing cardiac arrest from penetrating trauma with minimal downtime, pseudo PEA, etc.
- Pre-hospital providers should transfer trauma patients with uncontrolled airway, uncontrolled hemorrhage, or if there is CPR in progress to the closest hospital for stabilization and transfer
- An existing catheter can be utilized as alternative site to administer Whole Blood when IV or IO access is unsuccessful or inappropriate

DIATRICS

- See Whole Blood Protocol (Pediatric) for age range 5-13yo
- Not indicated for age < 5yo



Whole Blood w/ARC Administration (Adult)



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