# **BLOOD PRODUCT MANAGEMENT**

### ACTION:

- Patients in hemorrhagic shock may need to be transferred to a tertiary care or trauma center with blood/blood product transfusions in process as part of emergency resuscitation
- Blood products include packed red blood cells (PRBCs), whole blood, fresh frozen plasma (FFP), platelets, cryoprecipitate, and prothrombin complex concentrates

# INDICATION:

- All blood products to be infused must be initiated under a physician's written order by the transferring facility prior to paramedic transport
- The San Francisco EMS Agency does not authorize EMS personnel to start, hang or otherwise initiate the infusion of blood products.

## **CONTRAINDICATION: N/A**

### POTENTIAL SIDE EFFECTS:

- Transfusion reactions are defined as follows:
  - Allergic reaction: reaction that presents with hives or itching only, without signs of anaphylaxis
  - Anaphylaxis: reaction that presents with signs of allergic reaction, respiratory distress, vascular instability, vomiting, diarrhea and/or shock
  - Hemolytic transfusion reaction: reaction can be life threatening and may present with fever, headache, back pain, nausea, hypotension and pain at infusion site.
  - Volume overload: may show signs of congestive heart failure

### **NOTES:**

- The transfusion rate will be determined by the transferring physician and communicated to the paramedics to transport
- Transferring ED is responsible for providing EMS personnel with a written order (or faxed directly to receiving facility) for each blood product being transfused.
- Destination of the patient for which paramedics transport while monitoring blood product transfusions is determined by current San Francisco County EMS destination policy (Section. 5000)
- Guidelines:
  - Before accepting responsibility for the patient, confirm with a nurse or physician from the transferring facility, that the name on the patient's armband and blood bank number is the same as the name and blood bank

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- number on the unit(s) of blood product which is (are) infusing. A patient identification band must be present prior to transfer.
- Confirm the written order for the blood product(s) to be infused, which shall include the following:
  - Type of blood product being transfused
  - Rate of the transfusion
  - Name of the transferring physician
- Monitor all patients continuously during transport with a cardiac monitor and a noninvasive blood pressure monitor every 10 minutes during transfusion.
- Run blood products with normal saline only. Do **NOT** infuse medications in the line with blood.
- o In patients with suspected transfusion reactions, including: hemolytic reactions, allergic reactions, anaphylactic reactions and volume overload:
  - Stop the blood product transfusion
  - Change the IV tubing (do not flush the line)
  - Initiate care per applicable Treatment Protocol (2.02 Allergic Reaction, 2.11 Respiratory Distress: Bronchospasm, 2.12 Respiratory Distress: Acute Pulmonary Edema)
  - Notify the receiving facility
  - Provide the remaining blood product and tubing to the receiving hospital
- Document volume of blood product transfused, any suspected transfusion reaction on the ePCR and communicate the reaction and interventions taken to the receiving emergency department staff.
- The receiving emergency department staff will be responsible for communicating transfusion related adverse events to the transferring facility emergency department staff.

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