Kittitas County Prehospital EMS Protocols

SUBJECT: BLOOD PRODUCT ADMINISTRATION (Initiation/Administration/Maintenance)

Purpose:

To ensure the safe delivery of **Packed Red Blood Cells (PRBC / Fresh Frozen Plasma (FFP)** for prehospital patients meeting criteria for transfusion. No blood products are carried by Kittitas County ambulance services. Blood products may be acquired through Kittitas Valley Healthcare or air transport service.

Procedure:

- Consider blood product administration for patients with signs and symptoms of hemodynamic instability, including but not limited to SBP < 90, diaphoresis, delayed capillary refill, tachypnea, altered mental status or suspicion of impending hemorrhagic shock.
- **2.** AND one of the following:
 - a. Blunt or penetrating trauma to the torso.
 - b. Obvious massive external blood loss from any site.
 - c. Patients requiring aggressive volume resuscitation due to hemorrhage or suspected hemorrhage.

3. Administration Procedure

- a. Obtain pre-administration vital signs (BP, pulse, respirations, and temperature).
- b. Confirm blood product unit number, blood type, Rh factor and expiration date.
- c. If emergency release / uncross matched blood product
 - i. Universal Donor / Females O- (carried by ALNW)
 - ii. Males O+ (if available)
- d. Prior to infusing the initial unit of PRBC / FFP, prime the blood administration tubing with normal saline.

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- e. <u>No medication should be administered through the same line as blood products</u> at any time.
 - If only one line is available and medication is required, stop transfusion, clear line with **Isotonic Crystalloid** and or flush port with minimum of 10cc **Isotonic Crystalloid**, give medication, flush line, and restart transfusion.
- f. Specific attention should be directed during first 10 minutes of transfusion for evidence of signs/symptoms of a transfusion reaction.
 - i. Hives / Itching
 - ii. Fever / Chills
 - iii. Hypotension

4. Blood Transfusion Reaction:

- a. **STOP** the blood product infusion.
- b. Change all tubing and continue infusion with Isotonic Crystalloid.
- c. Secure discontinued blood bags and attached tubing in biohazard bag and notify receiving facility of transfusion reaction. Deliver bag of product / tubing directly to receiving facility's Transfusion Services Personnel for further evaluation. Do not throw away bags of tubing.
- d. For adult patients, administer **Solu-Medrol** 125 mg IV and **Benadryl** 50 mg IV.

5. Documentation Requirements:

- a. Blood product type, Unit number, and Rh factor and estimated volume infused.
- b. Pre administration vital signs and vital signs at 15 minutes post initiation of blood products.
- c. Transfusion reaction observation and intervention if required.
- d. The reason for refusal to be documented.

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