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### I. WHOLE BLOOD

- **Needle Size:** 18 or 20 G Catheter
- **Administration Time:** 1.5 - 2.0 Hours or as ordered, but no more than 4.0 Hours per unit.
- **Vital Signs:** Check VS before transfusion, 15 min after starting & every hour thereafter. Continue Q1 Hour VS x 4 Hours after transfusion.
- **Key Points:** If allowed to hang more than 4 Hours, there is an increased chance of cell hemolysis & bacterial growth.

### II. PACKED RED BLOOD CELLS

- **Needle Size:** 18 or 20 G Catheter
- **Administration Time:** 1.5 - 2.0 Hours or as ordered, but no more than 4.0 Hours per unit.
- **Vital Signs:** Check VS before transfusion, 15 min after starting & every hour thereafter. Continue Q1 Hour VS x 4 Hours after transfusion.
- **Key Points:** If allowed to hang more than 4 Hours, there is an increased chance of cell hemolysis & bacterial growth.

### III. WHITE BLOOD CELLS (Leukocyte concentrate)

- **Needle Size:** 18 or 20 G Catheter
- **Administration Time:** 1.5 - 2.0 Hours or as ordered, but no more than 4.0 Hours per unit.
- **Vital Signs:** Check VS before transfusion, 15 min after starting & every hour thereafter. Continue Q1 Hour VS x 4 Hours after transfusion.
- **Key Points:** WBC induces fever & chills. Pre-medicate with antipyretics as ordered.

### IV. PLATELETS

- **Needle Size:** 20 or 21 G Catheter
- **Administration Time:** 10 - 20 ml / 3 minutes
- **Vital Signs:** Check VS before transfusion, 15 min after starting & every hour thereafter.
- **Key Points:** Elevated temperature destroys platelets.

### V. PLASMA

- **Needle Size:** 20 or 21 G Catheter
- **Administration Time:** 0.5 Hour per unit
- **Vital Signs:** Check VS before and after transfusion.
- **Key Points:** Give FFP within 2 Hours after thawing.

### VI. ALBUMIN

- **Needle Size:** 20 or 21 G Catheter
- **Administration Time:** 1 ml / 1 minute
- **Vital Signs:** Check VS before transfusion, 15 min after starting & every hour thereafter.
- **Key Points:** Monitor vital signs.

### VII. CRYOPRECIPITATE CONCENTRATE A.H.F or FACTOR VIII

- **Needle Size:** 20 or 21 G Catheter
- **Administration Time:** 2 ml / 1 minute
- **Vital Signs:** Check VS before and after transfusion.
- **Key Points:** Monitor vital signs.

### IMPORTANT NOTICE:

1. Blood transfusion reaction can occur immediately after starting, during, and 4 hours after the transfusion.
2. Instruct patient to report any unusual sensations or conditions that occur during or after transfusion, including [a] chills, [b] lower back pain, [c] excessive perspiration, [d] nausea, or [e] even a vague sense of uneasiness.
3. Only 0.9% NaCl solution may be used when infusing blood.
4. Blood and blood products must be infused +/-30 minutes of leaving the Blood Bank. Return the blood to the Blood Bank if unable to start within 30 minutes.
5. Check IV site before transfusion, 15 min after initiation, and hourly until transfusion is completed.
6. **Use only Y-tubing.** Change Y-tubing with each unit of whole blood or PRBC.
7. **Fer transfusion reaction:** Stop the transfusion and change IV Tubing down to the insertion point. Keep vein open with 0.9% NaCl solution.

### FOR ADDITIONAL INFORMATION: Refer to the Patient Care Standard on Management of Patients Receiving Blood / Blood Products.