

HealthStream.

# CERTIFICATE OF COMPLETION

Presented to

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For the completion of

**Administering Blood Transfusions**

Completed On

12/9/2020

# Blood/Blood Product Administration

## \*\*\*Administration of *Blood*

### **Equipment**

- Properly cross-matched unit of blood
- **Blood administration Y-type set**
- IV pole and IV pump
- TAR module or blood bank issue form (for intra procedure or down time)
- Bag of NS

### **Procedure**

- **Set the rate on the IV pump to 75 ml/hr. After 15 minutes of blood administration the rate can be adjusted as ordered, but should not exceed a rate of 150 ml/hr.**
- In the event of a change in patient condition that would require the rate of transfusion to exceed 150 ml/hr the patient condition should be evaluated for transfer to a higher level of care within the facility.
- The RN initiating the transfusion must remain with the patient for at least 15 minutes after starting the transfusion
- Monitor and record all vital signs every 30 minutes throughout the transfusion.
- If patient's temperature increases by 1 degree Celsius any time during the transfusion above the pre-transfusion temperature, stop the transfusion and call the MD.

## \*\*\*Administration of *Plasma*

### **Equipment**

- Properly cross-matched unit of plasma
- **Blood administration Y-type set**
- IV poles and IV pump
- TAR module or blood bank issue form (for intra procedure or down time)
- Bag of NS

### **Procedure**

- **Plasma is run at 200cc/hr unless physician orders otherwise.**
- The RN initiating the transfusion must remain with the patient for at least 15 minutes after starting the transfusion. After 15 minutes, take vital signs again and record within TAR.
- Monitor vital signs every 30 minutes. More frequent vital signs should be taken if the patient's condition warrants.

## \*\*\*Administration of *Platelets*

### **Equipment**

- Single donor bag of Platelets
- **Component infusion set with standard blood filter from lab**
- IV pole
- TAR module or blood bank issue form (for intra procedure and down time)

### **Procedure**

- **Infuse platelets at wide open rate.**

- You must remain with the patient for at least 15 minutes after starting the transfusion. After 15 minutes, take vital signs again and record on the issue form and in the patient's medical record.
- Monitor and record vital signs every 30 minutes. More frequent vital signs should be taken if the patient's condition warrants.

### \*\*\*Administration of Cryoprecipitates

#### Equipment

- Multiple small units
- **Component infusion set with standard blood filter from lab**
- TAR module or blood bank issue form (for intra procedure or down time)
- 20cc luer-lock syringe
- IV pole

#### Procedure

- Insert spike into component bag
- Attach syringe to female luer
- Open clamp from component bag and draw component from bag into syringe, close clamp
- Open clamp to patient side of tubing and fill tubing with component and expel air, close clamp
- Attach patient side of tubing to patient's IV, open clamp and **infuse at desired rate.**
- Flush IV site with NS flush
- The RN initiating the transfusion will document the begin time within TAR.
- You must remain with the patient. After 15 minutes, take vital signs again and record in TAR or on the issue form during intra procedure or downtime.
- Monitor and record vital signs every 30 minutes. More frequent vital signs should be taken if the patient's condition warrants.

Blood Transfusions			
Component	Filters/Tubing	Volume	Rate
PRBC's	Y-type blood infusion set	250-350 mL	First 15 min: 60-120 After 15 min: 120-150 Usual: 1.5-4 hrs
Whole Blood	Y-type blood infusion set	300-550 mL	First 15 min: 60-120 After 15 min: 120-200 Usual: 1.5-4 hrs
Plasma	Y-type blood infusion set	180-350 mL	200 cc/hr Usual: over 30-80 min
Cryo-precipitate	**Blood filter from lab (170-260 Micron Filter)	5-20 mL	As rapidly as tolerated Usual: 15-30 min
Platelets	**Blood filter from lab (170-260 Micron Filter)	200-500 mL	Wide Open Rate Usual: 15-30 min

#### Points To Remember

- The infusion of blood components must begin within 30 minutes after leaving the Blood Bank. Never store blood components in refrigerators on the unit. If blood cannot be started within 30 minutes, return to lab/blood bank immediately.
- If the physician orders that component be administered before patient typing can be completed, he must sign a release form taking full responsibility for the patient's safety. If the physician re- fuses to sign the release, the nurse should not administer the blood component.
- Use new tubing for each unit of blood/blood component to be transfused.
- The administration of a unit of blood should never take longer than 4 hours.

- Fluids other than 0.9% NaCl may be harmful to blood. Drugs or other materials may not be added to blood/blood components

Patient Blood Type (RH Factor)	Donor Blood Component Compatibility	
	Packed RBC's	Plasma
A+	A+, A-, O+, O-	A, AB
A-	A-, O-	
B+	B+, B-, O+, O-	B, AB
B-	B-, O-	
AB+	A+, A-, B+, B-, O+, O- Universal Recipient	Only AB
AB-	A-, B-, O-	
O+	O+, O-	All Types
O-	O- Universal Donor	

\*Rh-

1. If a patient is over the age of 55 years, you can switch an Rh negative patient to Rh positive blood providing the patient does not have an Anti-D.
2. If a patient is less than 55 years old, you need pathologist consent to switch Rh.

### ***Rapid Infusion of Blood Products***

Rapid infusers are used to rapidly infuse blood and warm it at the same time. The use of the rapid infuser is used by competent staff in the ED, ICU, OR and PACU only. See policy on the Rapid Infuser.



EDUCATIONAL PROGRAM ATTENDANCE ROSTER

Course Title: Blood Product Administration

Date: 2/13/21 Length: \_\_\_\_\_ Time: \_\_\_\_\_ No. Sessions: \_\_\_\_\_

Location: E.D. Presenter and Department: Katie Harding, RN

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EDUCATIONAL PROGRAM ATTENDANCE ROSTER

Course Title: Blood Product Admin No. Sessions: 1  
 Date: FEB 2021 Length: \_\_\_\_\_ Time: \_\_\_\_\_  
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