Department of LABORATORY MEDICINE

University of Washington Medical Center 1959 NE Pacific Street. Seattle, WA 98195 Transfusion Services Laboratory Policies and Procedures Manual Original Effective Date: Nu 03-11-16 PC Revision Effective Date:

# TITLE: Dividing Blood Components

## PURPOSE:

To provide instructions for preparing blood splits using syringes or small bags with or without the sterile connecting device (SCD)

## PRINCIPLE & CLINICAL SIGNIFICANCE:

NA

### POLICIES:

- Product prepared by the TSL using a filter-syringe do not require further filtration at administration
- RBC's and FFP prepared in a syringe expire within 24 hours or the same time as the parent bag expiration, whichever is shorter
- Platelets and cryoprecipitate prepared in a syringe expire within 4 hours or the same time as the parent bag expiration, whichever is shorter
- Sterile connections:
  - Components remaining in the parent blood bag will maintain the original outdate when the secondary container is connected to the blood bag using a sterile method such as the sterile connecting device in a closed system
  - If a sterile connecting device (closed system) is not used or a weld fails, the parent container has the same outdate as the aliquots (24 hours for RBC and plasma, 4 hours for platelets and cryoprecipitate). The same as an open system.
- Splitting blood units using the SCD is the preferred method for preparing blood component aliquots, but is not required if the parent blood component will expire within 24 hours
- Expiration of divided products may not exceed the expiration for the parent blood component
- Blood Label Check must be performed following preparation of the aliquot on both the new product and the parent bag
- Lot number and expiration date of any additional containers added to the original product container must be tracked in Sunquest BOP or on the Downtime Component Prep Log along with a weld inspection if the SCD if used for attachment

## **SPECIMEN REQUIREMENTS:**

NA

### **REAGENTS/SUPPLIES/EQUIPMENT:**

Reagents:	Supplies:	Equipment:
None	<ul> <li>Blood Component</li> </ul>	Tube Welder
	<ul> <li>Filter-Syringe Set (30mL</li> </ul>	Balance
	or 60mL)	Tube Sealer
	<ul> <li>Syringe Tip Cap</li> </ul>	
	Transfer Bag	
	<ul> <li>Multi-bag set</li> </ul>	
	<ul> <li>Hemostat or clamp</li> </ul>	

### **QUALITY CONTROL:**

SCD weld inspection is performed and documented on the associated blood component with each use

### **INSTRUCTIONS:**

STEP	ACTION		
1	Select the appropriate transfer bag or syringe filter set for the blood split to be performed		
2	Thoroughly mix the contents of the blood component		
	lf	Then	
	Dividing		
	using the	If using	Then
3	SCD	Syringe Bag or multi- bag set	<ul> <li>Tighten the tubing on the syringe to prevent leakage</li> <li>Heat seal near the spike, remove and discard spike and blue clip</li> <li>Attach the new syringe to the original unit (refer to SOP <i>Sterile Welder Operation Cleaning Maintenance</i>)</li> <li>Draw the requested amount of blood product into the syringe allowing 3-5mL extra for the blood transfusion tubing</li> <li>Place the empty bag on the scale and tare the scale (refer to SOP <i>Operation of Entris 2202-1S Balance</i>)</li> <li>Attach the new bag to the original unit (refer to SOP <i>Sterile Welder Operation Cleaning Maintenance</i>)</li> <li>Attach the new bag to the original unit (refer to SOP <i>Sterile Welder Operation Cleaning Maintenance</i>)</li> <li>Attach the new bag to the original unit (refer to SOP <i>Sterile Welder Operation Cleaning Maintenance</i>)</li> <li>Allow the requested amount of blood to flow into the transfer bag allowing 10-15mL extra for the blood transfusion tubing</li> <li>s any residual air back into parent product container e tubing (refer to SOP <i>Tube Sealer: Operation and ng</i>)</li> </ul>

TITLE: Dividing Blood Components

## Number: PC-0003.02

	using the SSCD	component Perform BI SOP Blood Verify the e correct if n <b>f Using</b> oyringe • • • • • • • • • • • • • • • • • • •	t ood Component Pre- expiration date/tin eeded Tighten the tubin leakage Sterilely insert th blood bag port Draw the request the syringe allow transfusion tubin Place the empty scale. See SOP Balance Clamp the bag to Use the sterile r attached to the to port and open th Allow the request the transfer bag blood transfusion y residual air in t Seal the tubing. S ing parate the new cont d Component Pre- expiration date/tin	y bag on the scale and tare the <i>Operation of Entris 2202-1S</i> tubing with a hemostat or clip method to insert the spike transfer bag into the blood bag he clamp sted amount of blood to flow into allowing 10-15mL extra for the
)		RBC FFP Platelets Cryopreci	Both the compor	Expiration Date/Time limit24 Hours from "spiking" unit4 hours from "spiking" unitents will have the same expiration
5	Separate the blood			]
If container is a Then				
6	Syringe	<ul><li>sterile</li><li>Division</li></ul>	sterile cap	

# TITLE: Dividing Blood Components

	Bag	Process is complete – continue with additional processing as necessary (such as irradiation)
7	Return components to the appropriate storage location	

# CALCULATIONS/INTERPRETATIONS/RESULTS REPORTING/NORMAL VALUES/CRITICAL VALUES

NA

### CALIBRATION:

NA

### **PROCEDURE NOTES AND LIMITATIONS:**

• Sunquest defaults the expiration date of ALIQ aliquots to 4 hours. If desired, it is acceptable to change the expiration of FFP to 24 hours from time of processing

#### **REFERENCES**:

- Entris 2202-1S Balance Operation Manual
- Standards for Blood Banks and Transfusion Services. Bethesda, MD; AABB, current edition

### **RELATED DOCUMENTS:**

FORM Component Prep Downtime Log SOP Blood Component Preparation SOP Operation of Entris 2202-1S Balance SOP Sterile Welder Operation Cleaning Maintenance

### APPENDIX

NA

# TITLE: Dividing Blood Components

### Number: PC-0003.02

UWMC SOP Approval:				
UWMC CLIA Medical Director	Mark H. Wener, MD	Date		
		Dale		
Transfusion Service Manager		Date		
	Nina Sen			
Compliance Analyst		Date		
	Christine Clark			
Transfusion Service				
Medical Director		Date		
	Monica Pagano, MD			
UWMC Biennial R	eview:			
		Date		
		Date		

### **REVISIONS:**

07/12/2021: Add policy when sterile welder is not used or fails the component involved has the out-date of an open system.