

### PURPOSE

To provide instructions for issuing blood components for transfusion

#### **PRINCIPLE & CLINICAL SIGNIFICANCE**

This SOP describes the workflow and inspection process that ensures all necessary testing is complete and blood and blood components meet patient requirements and pass a visual inspection prior to issue for transfusion.

#### POLICY

- Issue of blood is documented in the Laboratory information system or on a *Downtime Issue Log* at the time of issue prior to leaving the lab. Outcome of the visual inspection is included.
- Usually, only one blood component is issued at a time except in the following circumstances:
  - o Refrigerated components are issued in a blood refrigerator
  - Transfusionist requests issue of 2 components and states the patient has access to allow transfusion of both at the time of issue
- Issue of blood components is requested by sending a *Blood Product Release Form* to the TSL
  - Blood Product Release Forms will print in the TSL on the product order printer. When EPIC is unavailable, the requester will fill out a manual form and send it via pneumatic tube or hand deliver it to the TSL
  - The full name and medical record of the patient, and number and component type must be provided by the person requesting issue. It is not acceptable to provide the name and medical record number to the requestor or person picking up blood.
- Blood components may be issued to a person or sent via pneumatic tube to the station specified by the requestor. Prior to sending blood components, the requestor is notified by phone the product is on its way
  - Blood components sent via pneumatic tube are placed in a plastic bag prior to loading in a carrier.
  - Blood Product Release Form (BPRF) is sent with blood sent via the pneumatic tube. The person removing the blood component from the station will sign the form and send it back via pneumatic tube station to the Transfusion Service Laboratory (TSL)
- Issuing Blood to the Operating Room (OR)
  - Non-Bleeding Emergency: Blood should be delivered to the room within 20 minutes of request
  - Massive Transfusion Protocols: Blood should be delivered as quickly as possible according to SOP Massive Transfusion and OB Hemorrhage Protocols and Sop Emergency Release of Blood Products

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

Reagents	Supplies	Equipment
NA	NA	Laboratory Information
		System computer or
		Downtime Issue Log

### QUALITY CONTROL

The Laboratory Information System (LIS) is validated at implementation and whenever significant changes are made to the system to assure it functions as expected.

### **INSTRUCTIONS:**

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# **Table of Contents**

Issuing Blood Component(s) <u>Transporting Blood Component(s)</u> <u>Appendix A: Approved Pneumatic Tube Station for Blood Delivery</u>

### Issuing Blood Component(s)

STEP	A	CTION		
1	Receive the completed Blood Product Release Form (BPRF)			
2	Time Stamp the BPRF with time received in the department for manual release forms Note: Printed release forms have date and time of release printed			
	Enter the patient ID# in <b>Blood Bank Inquiry</b> to verify the requested product (s) is available for the patient:			
2	If requested product is	Then		
5	Available	Proceed to step 4		
	Not available         Refer issue to UWMC TSL MLS staff for allocation			
4	<ul> <li>Open the Blood Product Issue screen and perform the following steps:</li> <li>Select "Patient ID" from the drop-down menu</li> <li>Scan the medical record number from the BPRF (type in manually if necessary)</li> <li>Select the appropriate Billing Account # from the Event Selection window (if not already selected) to ensure billing is applied to the correct encounter</li> </ul>			
5	Enter the appropriate component group(s) and click <add> <ul> <li>RBCG – Red Blood Cell Group (includes granulocytes)</li> <li>PLG – Platelet Group</li> <li>PLSG – Plasma Group</li> <li>CRYG – Cryoprecipitate Group</li> </ul></add>			
6	Click <select> to see what blood components are allocated to the patient and available for issue</select>			
7	<ul> <li>Select the blood component from refrigerator or platelet incubator based on the following criteria:</li> <li>Autologous, before directed units or HLA selected), before allogenic units</li> <li>Unit expiring first if more than one unit is available</li> </ul>			
	NOTE: Any questions should be referred	to MLS staff at the UWMC TSL		

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STEP	ACTION				
8	Record the issue date/time on the <i>Transfusion Record</i> of each blood component <b>NOTE</b> : Time stamp may be used				
9	Verify the blood component meets all patient transfusion requirements by reviewing the patient transfusion requirements located under the tabs at the top of the screen <b>NOTE:</b> Click < <b>More</b> > to review patient's requirements if there are multiple lines of text				
10	NOTE: Click < Morest to review patient's requirements in there are multiple lines of text not easily reviewed in the two-line display window. Scan the unit number and component type to select the unit in Sunquest and verify a checkmark displays next to the correct unit <b>CRITICAL:</b> It is critical the Ecode is scanned and not selected from the dropdown box. Sunquest will give the following warning when components have been selected using the dropdown. Not scanning will give errors with EPIC downstream. • Click <cancel> • Scan or enter Ecode per NOTE below <b>NOTE:</b> If issuing from a Downtime Issue Log: Use the following format to manually enter the component type: =&lt;<b>Ecode</b> (examples: =&lt;<b>E0379V00</b>, =&lt;<b>E7002200</b>, = <b>CE0370VPD</b>)</cancel>				
11	Click <continue></continue>				
	Inspect the blood con Expiration da Correct labeli Intact contain No clots, turb (See SOP: V If the visual inspection	mponent for the following: te has not passed ing her idity, hemolysis or other abnormal appearance of the component <i>isual Inspection of Blood Products</i> ) Then			
12	Fails	<ul> <li>Result the visual inspection by selecting the <u>Pass All key</u></li> <li>Go to the next step</li> <li>Select the <u>Inspect Unit key</u></li> <li>Answer the "Visual inspection ok?" by selecting the No</li> <li>Enter the "Reason for failure" code</li> <li>Add any further explanation in the free text area if required</li> <li>Select "Quarantine" for the new status</li> <li>Click <ok></ok></li> <li>NOTE: Any units failing the visual inspection should be quarantined according to SOP: Quarantine of Blood and Blood Components.</li> <li>DO NOT issue unless the component passes the visual inspection</li> <li>NOTE to SCCA: Call TSL for unit reassignment</li> </ul>			
13	Verify the following in	nformation agrees			

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## TITLE: Issuing Blood Components

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### Number: PC-0012.0<u>4</u>3

STEP	ACTION				
	BPRF		Sunquest	Transfusion Record	Blood Component (ISBT) Label
	Name & MR #	Name & MR # Name & MR #		Name & MR #	
		Re	cipient Type	Recipient Type	
		Don	or Blood Type	Donor Blood Type	Donor Blood Type
		Unit	Number/Div.	Unit Number/Div.	Unit Number/Div.
		Un	it Expiration	Unit Expiration	Unit Expiration
	Component Type			Component Type	Component Type
	If there are	Thom			
	Discrepancies	Reso	lve anv discre	pancies before procee	ding with issue
14	No Discrepancies	Go to	the next step		
15	<ul> <li>Click &lt;<u>C</u>ontinue</li> <li>Tab to accept the patient correct location</li> <li>If issuing by</li> <li>Pneumatic tube sy</li> <li>Transporter</li> <li>Portable refrigerate</li> <li>NOTE: If products performed as soon</li> </ul>	Antinue>         Rept the default for issue date and time or update if not issuing in real time patient location matches the requested delivery location, or enter the ation (Search may be used to locate the correct location)         Image: matches the requested delivery location, or enter the ation (Search may be used to locate the correct location)         Image: matches the requested delivery location, or enter the ation (Search may be used to locate the correct location)         Image: matches the requested delivery location         Image: matches the requested delivery location         Image: matches the the object the correct location         Image: matches the			
	If a QA Failure	Then			
	Does NOT occur	Go to next step			
16	Occurs	Refer the issue to an MLS prior to issue. If the issue cannot be corrected and the product is acceptable for issue, one of the following will occur:			ne issue cannot be ssue, one of the
		lf MLS in	available en	Then MLS include the blood	componente Defer
		site	MLS is available on MLS issues the blood of site to SOP Sunquest: QA Overrides		A Warnings &

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TITLE: Incuring Placed Components	Number:
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STEP	ACTION				
		MLS is not available on	site	Staff issues the blood component on the Downtime Issue Log and the form is downtime faxed or tubed to the 6th floor TSL for completion in Sunquest	
17	Click < <u>S</u> ave> and the "Add Billing" window will open     Click < <u>Cancel&gt;</u>			<del>dow will open</del>	
	Give the unit and tra check of the unit lat	ansfusion reco bel and transfu	rd to a s sion rec	econd staff member to perform a clerical ord and comparing the following:	
	Blood Component Label		Transf	usion Record	
	Donor ABO/Rh		Donor ABORH		
10	18 Unit Number/Div. Unit Expiration		Unit Number/Div.		
10			Unit Expiration		
	Component Type		Compo	onent Type	
	NA		Crossmatch Interp.		
	<b>NOTE:</b> If a second staff member is not available the issue staff member will perform and document the clerical check.				
	If 2 <sup>nd</sup> check is		Then 2 <sup>nd</sup> tech		
	Acceptable		Initials	als the Transfusion Record	
19	Not acceptable		Notifies discrep	s the issue staff member of any pancies	

### Transporting Blood Component(s)

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STEP	ACTION			
	lf	Then		
1	Not issuing in blood refrigerator	<ul> <li>Place the blood components with Transfusion Records in a sealed biohazard bag</li> <li>Go to next step</li> </ul>		
	Issuing in a blood refrigerator	<ul> <li>Verify the temperature of the refrigerator is between 1 and 6°C prior to loading</li> <li>Place RBC or plasma component inside the refrigerator</li> <li>Go to next step</li> </ul>		

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STEP	ACTION			
	If transporting via	Then		
	Pneumatic tube system	<ul> <li>Call the contact on the being sent</li> <li>Send the BPRF with th</li> </ul>	BPRF and let them know the blood is e blood components	
		If sending to	Then 2 <sup>nd</sup> tech	
		<ul> <li>Main OR</li> <li>Pavilion OR</li> <li>Interventional Radiation (IR)</li> <li>Cath Lab</li> <li>Emergency Room</li> </ul>	Refer to Appendix A for approved stations	
2		All other location	Send to station listed on the BPRF	
		<ul> <li>Send to the pneumatic BPRF - refer to Append area and emergency re</li> </ul>	tube station location indicated on the dix A for operating room, procedure bom pneumatic tube station	
		<b>NOTE:</b> If BPRF not returned verify the units were delive immediate return of the signature	ed, contact the patient care area to pred as expected and request gned BPRF	
	Transporter	<ul> <li>Have the transporter si form in the lab</li> </ul>	ign the BPRF and keep the signed	
	TSL staff	<ul><li>Deliver blood compone</li><li>Have the BPRF signed</li></ul>	ents I by person receiving blood	
3	File the returned B	PRF in the appropriate locat	tion in the department	

#### PROCEDURE NOTES/LIMITATIONS

- In some situations, it may be desirable to weigh the unit of blood to get a more accurate volume, which can be documented on the Transfusion Record in the donor volume field
- Blood Product Issue may be accessed directly from BOP by selecting <u>Issue or Emergency</u> at the "Continue to Blood Product Issue?" Prompt.

### **REFERENCES:**

- Technical Manual. Bethesda, MD; AABB, current edition
- Standards for Blood Banks and Transfusion Services. Bethesda, MD; AABB, current edition

#### **RELATED DOCUMENTS:**

FORM Blood Product Release (BPRF) FORM Transfusion Record FORM Downtime Issue Log SOP Visual Inspection of Blood Components SOP Quarantine of Blood and Blood Components SOP Sunquest: QA Warnings & Overrides

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UWMC SOP Approval:		
Chief of Clinical		
Services		
(CLIA Medical		
Director)		Date
-	Mark H. WenerAndrew Bryan, MD	
Transfusion Service		
Manager		Date
	Nina Sen	
Transfusion Service		
Compliance		
AnalystQA Manager		Date
	Christine ClarkTayler Reeves	
Transfusion Service		
Medical Director		Date
	Monica B Pagano, MD	
LIMMC Diannial Daviau		
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		Date
		Date
SCCA SOP Approval:		
SCCA SOP Approval:		Date
SCCA SOP Approval: SCCA CLIA Medical		Date
SCCA SOP Approval: SCCA CLIA Medical Director		Date
SCCA SOP Approval: SCCA CLIA Medical Director	Brent L. Wood, MD	Date
SCCA SOP Approval: SCCA CLIA Medical Director Director, Transfusion	Brent L. Wood, MD	Date
SCCA SOP Approval: SCCA CLIA Medical Director Director, Transfusion Services	Brent L. Wood, MD	Date
SCCA SOP Approval: SCCA CLIA Medical Director Director, Transfusion Services	Brent L. Wood, MD	Date
SCCA SOP Approval: SCCA CLIA Medical Director Director, Transfusion Services	Brent L. Wood, MD Terry Gernsheimer, MD	Date
SCCA SOP Approval: SCCA CLIA Medical Director Director, Transfusion Services Alliance Lab Manager	Brent L. Wood, MD Terry Gernsheimer, MD	Date

### **REVISION HISTORY:**

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**04/22/2018**: As part of the Sunquest 8.1 upgrade, programming was changed to require scanning or manually entering the unit number when issuing a component. This applies only at UWMC locations but not HMC.

**03/27/2021:** Updating for implementation of EPIC. Added general policies and appendix with standard operating room blood delivery pneumatic tube stations. Revised steps in section Transporting Blood Component(s).

02/20/2023: Updated for Sunquest upgrade 11.0. Removed billing screen at issue

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### APPENDIX:

Appendix A: Approved Pneumatic Tube Stations for Blood Delivery

Clinical Area	Pneumatic Tube Station
Main OR 1-4	521
Main OR 5-12	226
Main OR 13-19	114
Pavilion OR	824
Interventional Radiology (IR)	921
Cath Lab	323
Emergency Room (ED)	620

Copy of appendix attached to Pneumatic Tube Station in NN601 and BB2 List is not inclusive of all inpatient areas ٠

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