

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:
 - 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

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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Issuing Blood Component(s)

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

STEP		ACTION	
8	Record the issue dat	te/time on the <i>Transfusion Record</i> of each blood component 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 NOTE: Click < Mor <u>e></u> to review patient's requirements if there are multiple lines of text not easily reviewed in the two-line display window.		
10	 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 CRITICAL: 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></cancel> Scan or enter Ecode per NOTE below NOTE: If issuing from a Downtime Issue Log: Use the following format to manually enter the component type: =<ecode (examples:="<E0379V00," =<e7002200,<="" li=""> </ecode>		
11	= <e0379vb0) Click <continue></continue></e0379vb0) 		
	Inspect the blood component for the following: Expiration date has not passed Correct labeling Intact container No clots, turbidity, hemolysis or other abnormal appearance of the component (See SOP: Visual Inspection of Blood Products) If the visual		
	inspection Passes	 Then Result the visual inspection by selecting the Pass All key 	
12	 Go to the next step Select the Inspect Unit key Answer the "Visual inspection ok?" by selecting the No Enter the "Reason for failure" code Add any further explanation in the free text area if required Select "Quarantine" for the new status Click <ok></ok> NOTE: Any units failing the visual inspection should be quarantined according to SOP: Quarantine of Blood and Blood Components. DO NOT issue unless the component passes the visual inspection NOTE to SCCA: Call TSL for unit reassignment 		
13	Verify the following in		
13	Verify the following in	NOTE to SCCA: Call TSL for unit reassignment	

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STEP		ACTION			
	BPRF	Sunquest		Transfusion Record	Blood Component (ISBT) Label
	Name & MR #	Na	ame & MR #	Name & MR #	
		Recipient 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
		These			
	If there are Discrepancies	Reso		pancies before proceed	ding with issue
14	No Discrepancies		the next step		
15	 Click <<u>C</u>ontinue Tab to accept the Tab to accept the Verify the patiencorrect location If issuing by Pneumatic tube sy Transporter Portable refrigeration 	eumatic tube system PTS ansporter Scan the blood transporters badge or enter their first an last name			ation, or enter the cation) or enter their first and ing number
	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 can corrected and the product is acceptable for issue, one o following will occur: If Then MLS is available on MLS issues the blood component		ssue, one of the	
		site		to SOP Sunquest: QA Overrides	•

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>Save></u> and the "Add Billing" window will open Click <cancel></cancel> 			
	Give the unit and transfusion record to a second staff member to perform a clerical check of the unit label and transfusion record and comparing the following:			
	Blood Componer	nt Label	Transfusion Record	
	Donor ABO/Rh		Donor ABORH	
10	Unit Number/Div.		Unit Number/Div.	
18	Unit Expiration		Unit Expiration	
	Component Type		Component Type	
	NA		Crossmatch Interp.	
	NOTE : If a second staff member is not available the issue staff member will perform and document the clerical check.			
	If 2 nd check is Then 2 nd to		2 nd tech	
	Acceptable		Initials the Transfusion Record	
19	Not acceptable		Notifies the issue staff member of any discrepancies	

Transporting Blood Component(s)

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

STEP	ACTION			
	If transporting via	Then		
	Pneumatic tube system	 Call the contact on the BPRF and let them know the blood is being sent Send the BPRF with the blood components 		
		If sending to Then 2 nd tech		
		 Main OR Pavilion OR Interventional Radiation (IR) Cath Lab Emergency Room 		
2		All other location Send to station listed on the BPRF		
		 Send to the pneumatic tube station location indicated on the BPRF - refer to Appendix A for operating room, procedure area and emergency room pneumatic tube station 		
		NOTE: If BPRF not returned, contact the patient care area to verify the units were delivered as expected and request immediate return of the signed BPRF		
	Transporter	Have the transporter sign the BPRF and keep the signed form in the lab		
	TSL staff	 Deliver blood components Have the BPRF signed by person receiving blood 		
3	File the returned BPRF in the appropriate location 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 Issue or Emergency 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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LIW/MC SOD Annroval		
UWMC SOP Approval:		
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SCCA CLIA Medical Director Director, Transfusion		Date

REVISION HISTORY:

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).

TITI E. Locuing Placed Components	Number:
TITLE: Issuing Blood Components	PC-0012.03

APPENDIX:

Appendix A: Approved Pneumatic Tube Stations for Blood Delivery

Clinical Area	Pneumatic Tube Station	
Main OR	224	
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