

## **PURPOSE:**

To describe the process for evaluating blood components returned from an issued status prior to acceptance back into inventory or placing into quarantined status.

### LOCATION:

Northwest Transfusion Support Service (TSS)

## **PRINCIPLE & CLINICAL SIGNIFICANCE:**

#### Principle

All blood components returned to the Transfusion Service Laboratory (TSL) must be inspected and evaluated to ensure handling, temperature and the visual meet all applicable UWMW TSL, Food and Drug Administration (FDA) and CAP and AABB requirements are met prior to acceptance back into inventory.

#### **Clinical Significance**

Blood components issued for transfusions are susceptible to damage and increased risk for bacterial contamination if proper temperatures and handling practices are not maintained. Transfusion of components not maintained at the appropriate temperature may lead to reduced effectiveness of the product and can increase the risk of an adverse reaction in the recipient if transfused.

## POLICIES:

- Quality Improvement (QI) form must be completed to document return of all blood components to TSS.
- Blood components may be returned and accepted into inventory for reissue only if all of the following conditions are met:
  - Blood component is not spiked
  - Ports are not tampered with
  - Label is not defaced in any manner
  - Visual inspection is acceptable refer to SOP Visual Inspection of Blood Components at Northwest Campus
  - Temperature is acceptable

Component Type	Acceptable Temperature Ranges	
Red Blood Cell	lf	Then
and Plasma	Not returned in cooler	1-10°C
	Returned in cooler	1-6°C and HemoTemp Indicator flower is NOT black
Platelets, cryoprecipitate and granulocytes	I 20-24°C	

- Blood Components not issued in a cooler (returned > 30 minutes from issue time, in or out of temperature range), must be approved by the UWMC TSL MD on call prior to acceptance back into inventory.
- Components returned with HemoTemp indicators-refer to SOP Issuing Components in a Blood Cooler at Northwest Campus for acceptability
- RBCs acceptable for return to inventory should remain in allocated status in Sunquest and reloaded into Haemobank. If transfusion is canceled, the RBC will be returned to Montlake TSL – refer to SOP *Returning Blood Components to Montlake from Northwest Campus.*
- RBCs removed from the HaemoBank and issued as uncrossmatched, will automatically be quarantined in BloodTrack when returned to the HaemoBank

## **SPECIMEN REQUIREMENTS:**

NA

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

Reagents:	Supplies:	Equipment:
NA	Calibrated thermometer	LIS
	"Quarantine" stickers	

## QUALITY CONTROL:

NA

## INSTRUCTIONS:

## TABLE of CONTENTS:

Verifying Blood Component are Acceptable for Return to Inventory Returning Blood Component in LIS Returning Issued Blood Components in HaemoBank

## Verifying Blood Component are Acceptable for Return to Inventory

STEP	ACTION		
1	If Returned in a cooler within 4 hours of issue	stickers is acceptabl	<ul> <li>re reading on the HemoTemp</li> <li>e - refer to SOP <i>Issuing</i></li> <li><i>lood Cooler at Northwest Campus</i></li> <li>Then</li> <li>Go to step 5</li> <li>Place a Quarantine Sticker on the component</li> <li>Go to section <u>Returning Blood</u></li> <li>Components in LIS</li> </ul>
	Not returned in a cooler	Go to next step	·

STEP	ACTION			
2	Verify the temperature of the blood component using a NIST calibrated thermometer, folding the component around the thermometer and reading after 3-5 minutes refer to SOP <i>Fluke Thermometer Operation</i>			
	Document the temperature reading on a QI form			
	If components is	Then		
		Go to next step		
		Component Type Acceptable Temperature Range		
3	Within acceptable temperature range	RBC or Plasma 1-10 °C		
		Platelets, cryoprecipitate or 20-24 °C granulocytes		
	Outside of acceptable temperature range	<ul> <li>Place a Quarantine Sticker on the component</li> <li>Go to section Returning Blood Components in LIS</li> </ul>		
	Perform visual inspection	n following SOP Visual Inspection of Blood Components at		
	Northwest Campus			
	lf	Then		
4	Acceptable	<ul> <li>Component is acceptable to return to inventory</li> <li>Go to next section Returning Blood Components in LIS</li> </ul>		
	Unacceptable	<ul> <li>Place a Quarantine Sticker on the component</li> <li>Go to section Returning Blood Components in LIS</li> </ul>		
	If component returned	Then		
5	≤ 30 minutes of issue	Go to next step		
	> 30 minutes of issue	<ul> <li>Place a Quarantine Sticker on the component</li> <li>Go to section <u>Returning Blood Components in LIS</u></li> </ul>		

## Returning Blood Component in LIS

STEP	ACTION		
	If returning in SQ Then		
	Immediately	Open "Blood Status Update" function and retain the default "Update Option" <unit update=""></unit>	
1	Later	Record the return time on the Transfusion Record and place the component in the backup refrigerator until it can be returned in SQ	
	<b>NOTE</b> : If Sunquest is down the return is documented on the Downtime Issue Log and must be entered into Sunquest as soon as feasible.		
	Scan the unit number and component type at the "Unit Selection" prompt		
2	NOTE: The unit number may be manually entered if unable to scan		

STEP	ACTION			
3	Tab through the current date and time or update if necessary when entering information from the downtime issue log			
	Select the appropriate "New Status" from the drop down box and then <tab></tab>			
	If component is	Then select		
4	Acceptable for return to inventory	<ul> <li>'Inventory' (INV)</li> <li>Press <tab>, <tab> to bypass the Temperature field</tab></tab></li> <li>IMPORTANT: Do not enter temperature readings into Sunquest. Temperature is documented on the QI.</li> <li>Record the results of the visual inspection when prompted "Pass visual inspection" in SQ by clicking the "Yes" or "No" box</li> <li>'Quarantine'</li> <li>Enter the reason code "CQI" in the Reason Code field</li> <li>Click <add></add></li> <li>Refer to SOP Quarantine and Final disposition of Blood Components at Northwest Campus</li> </ul>		
	Not acceptable for return to inventory for any reason			
		Do not enter temperature data in this field. The system does not have e user if the temperature is out of range.		
5	Click < <u>9</u> .Unit Locatio	•	U	
6	Update the location to <b>NWBB</b> and Click <ok> in the "Location Update"</ok>			
7	Click <save></save>			
	Select the appropriat	te response at the "R	eallocation of unit' window	
	If component is	Then		
		If transfusion of component is	Then	
	Not to be loaded in Haemobank Not to be loaded in Haemobank Not to be loaded in Haemobank Not to be loaded in Haemobank	<ul> <li>Select 'Allocated' from the drop down menu</li> <li>Save</li> <li>Contact Montlake TSL if unit transfusion record is not acceptable for reissue</li> </ul>		
8		Cancelled	<ul> <li>Select 'Released' from the drop down menu</li> <li>Save</li> </ul>	
		lf	Then	
	Loaded into the Haemobank	Crossmatch	<ul> <li>Select 'Allocated' from the drop-down menu</li> <li>Click <save></save></li> <li>Contact Montlake TSL if unit transfusion record is not acceptable for reissue</li> </ul>	

STEP	ACTION		
			<b>NOTE:</b> Component should remain in allocated status even if the component is no longer needed for transfusion
		<ul> <li>Select "Released" from the drop- down menu</li> <li>Click <save></save></li> </ul>	
	If component is	Then	
	Red Cells	Cells Go to section <u>Returning Issued Blood Components in</u> Haemobank	
9	<ul><li> Plasma</li><li> Washed Red Cells</li></ul>	Store in backup refrigerator	
	Platelet	Store on platelet incubator	
	Cryo or granulocyte	Store at room temperature	
10	Complete QI form a	te QI form and send/fax to Montlake TSL	

## Returning Issued Blood Components in Haemobank

STEP	ACTION		
1	Remove and discard HemoTemp indicators attached to the component		
2	Log in by scanning your UWMC ID Badge or entering in your EID# (Employee Identification #)		
3	Touch <putting in=""></putting>		
4	Scan the ID number on the blood component		
5	Touch <yes> when the "Temperature Indicator Check" window appears</yes>		Check the temperature indicator attached to the unit for temperature excursions and confirm the unit is suitable for transfusion. Is the unit suitable for transfusion?
	If green screen Then		
6	<b>APPEARS</b> prompting you to place the blood component into the storage location	ace the blood Int into the HaemoBank	

STEP	ACTION		
	Does NOT APPEARS         •         Verify the component was entered into BloodTrack           •         Call Montlake TSL for resolution		
7	Open the main door and pull the tray out until click is heard		
8	Place the component flat and ports-side first into the designated tray		
9	Gently push the tray back into place. The light will go out.		
10	Close the main door		
11	Repeat steps 4 thru10 above additional components		
12	Touch <logout> when finished</logout>		

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

NA

## **CALIBRATION:**

NA

## NOTES AND LIMITATIONS:

• Broken components should not be returned to the Montlake TSL for disposition. Document broken components on a QI form and discard the component in a biohazard container. Fax the QI to Montlake TSL.

## **REFERENCES:**

- Technical Manual. Current edition, Bethesda, MD: AABB,
- Standards for Blood Banks and Transfusion Services. Bethesda, MD; AABB, current edition
- Sunquest users Guide, current version
- Blood Track Courier. Braintree, MA. Haemonetics Corporation, Version 4.11.0

## **RELATED DOCUMENTS:**

Form Downtime Issue Log Form Quality Improvement SOP Issuing Blood Components in a Blood Cooler at Northwest Campus SOP Fluke Thermometer Operation SOP Visual Inspection of Blood Components at Northwest Campus SOP Quarantine and Final Disposition of Blood Components at Northwest Campus SOP Returning Blood Components to Montlake from Northwest Campus

## ADDENDUM:

NA

UWMC SOP Approval:		
Chief of Clinical		
Services	0 11 1	. / /
(CLIA Medical Director)	mark Melen	Date 10/20/20
	Mark H. Wener, MD	
Transfusion Service	Min Sen	Date 10/16/20
Manager	Nina Sen	Date Tone 20
Transfusion Service		
Compliance Analyst	Mustun Vark	Date 10-16-2020
	Christine Clark	
Transfusion Service	F Mus	
Medical Director	Opusing	Date 10-19-2020
	Monica B. Pagano, MD	
UWMC Biennial Review:		
		Date
		Date