

Policy No.: BBBP 8.0 v2 This Policy and Procedure is applicable to: **Effective Date:** 12/2/15 Memorial Group, Inc. BBBP 8.0 v1 Supersedes: ☑ Memorial Hospital – Belleville **Reviewed:** 0 Department Specific <u>Laboratory</u> **Revised:** 11/30/15 ☑ Memorial Hospital East Administrator: Jennifer Harris Department Specific <u>Laboratory</u> **See Document Control Form** Signature Memorial Care Center Memorial Medical Group

Issue and Transport of Blood and Blood Products

Purpose To provide instructions on issuing blood and blood products to patient care areas from the blood bank and guidance on how to transport them.

Background Blood and blood products can be safely transported using the hospital pneumatic tube system. In order to track shipment and prevent loss of the products they will be sent only by badge secure transaction. Each red blood cell product will have a temperature monitoring device affixed prior to shipment. Identification of patient and blood product is a very important step in the issuing and transport process.

Specimen NA

Materials

Reagents	Supplies	Equipment
NA	 Genesis Timestrip® Blood Temp 10 temperature label Large Biohazard plastic bag 	• Pneumatic tube system

Quality Control NA



Procedure

1. <u>Pre-Issue Steps</u>

Step	Action				
1	Ensure the patient care area has ordered a "Request Blood Product Delivery" in				
	MCARE.				
	NOTE: If the order is for an emergent need or for a transporter, see the				
	appropriate corresponding procedure for how notification of transfusion need				
	occurs.				
2	Ensure that the following have been performed:				
	Step Action				
	1 The product(s) have been ordered in MCARE.				
	2 The patient information on the request for delivery matches the patient				
	information on the order for blood products.				
	3 An ABORh has been completed on the patient's encounter, indicated by the H#				
	at the top of the request for delivery, in the last 72 hours.				
	4 An antibody screen has been completed on the patient's encounter, indicated by				
	the H# at the top of the request for delivery, in the last 72 hours.				
3	Retrieve the assigned or crossmatched unit from storage.				
4	Retrieve the "Request Blood Product Delivery" order sheet from printer.				
5	Record on the "Request for Delivery of Blood Products" the following information				
	from the patient's history screen in MCARE:				
	a. Patient's antibodies, if applicable.				
	b. Patient's special requirements, if applicable (CMV neg, IRR, HgbS neg,				
	etc.)				
6	Verify that the blood product order matches the blood product retrieved.				
7	If blood product is a red blood cell product, activate and attach a Genesis Timestrip®				
	Blood Temp 10 temperature sticker as described in Use of Genesis Timestrip® Blood				
0	Temp 10 SOP.				
8	All other blood products should be issued without temperature sticker attached.				

2. <u>Issuing Units</u>

Step	Action
1	From the main desktop in MCARE, open the BBK Unit desktop.



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	Data Processing Management Reports Outreach Patient Reports Phlebotomist Requisition Specimen LAB Analyzer LAB Quality Control BBK Analyzer BBK Quality Control BBK History BBK History BBK Donor		
2	Choose Single from the right menu bar.		
3	Choose Issue from the right menu bar.		
4	Choose Issue Units by Patient from resulting menu. Issue Units Issue Units		
5	 In the <i>Patient Name:</i>, type 1 of the following: a. The patient's name in the following format <i>Last Name, First Name</i> b. The patient's M number in the following format <i>U#MXXXXXX</i>. 		
6	Select the correct patient by comparing all information available from the resulting list.		
7 Select the correct admission by matching the H number on the "Request for Deliv Blood Products" to the H number next to the patient's name in the list.			
8	Press F12 to bypass the most recent laboratory results.		
9	Available units will appear in a message window; compare the unit you selected to the list.		
10	Click F12 or <i>Close</i> to bypass this screen.		
11	Scan the unit number barcode into the <i>Unit</i> field on the screen.		



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arrows below. * Issue Date *Time * Issued By Messenger * Issue Location UNIT APPEARANCE ACCEPTABLE? FILTER ISSUED? - IF YES, ADD FILTER CHARGE.			
* Issue Date * Time * Issued By Messenger * Issue Location UNIT APPEARANCE ACCEPTABLE? FILTER ISSUED? - IF YES, ADD FILTER CHARGE.			
UNIT APPEARANCE ACCEPTABLE? FILTER ISSUED? - IF YES, ADD FILTER CHARGE.			
13 Press the <i>Enter</i> key until the cursor is in the <i>Messenger</i> field.			
14 In this field, enter the location that you are physically sending the unit (ie. 1S,	ICU, ER,		
etc)			
15 Press enter to go down to the <i>Issue Location</i> field.			
16 Check to ensure that information in <i>Issue Location</i> field reflects where unit is	actually		
going.			
- If unit is going to OR, type "H.OR"			
- If unit is going to PACU, type "H.PACU"			
Press the <i>Enter</i> key until the cursor reaches the <i>UNIT APPFARANCE ACCEPTARIE</i> ?			
Field.			
18 If the appearance of the unit meets the guidelines outlined in the appearance chart, then type "Y" and then press enter.	If the appearance of the unit meets the guidelines outlined in the appearance check chart then type "Y" and then press enter		
If the appearance of the units doesn't meet the guidelines for issue, then quarantine the unit and repeat the above steps starting from the "Pre-Issuing Steps" #3.			
In the <i>FILTER ISSUED</i> ? – <i>IF YES</i> , <i>ADD FILTER CHARGE</i> field, type "N".			
NOTE: Filters for transfusion are kept and maintained by nursing. There are no filters			
to be given out by blood bank.	to be given out by blood bank.		
21 In the <i>Units Issued Comments</i> field, type any free text comments desired.	In the Units Issued Comments field, type any free text comments desired.		
•If unit is being sent in a transporter, free text a comment indicating the number of the transporter the unit was sent in.	•If unit is being sent in a transporter, free text a comment indicating the id number of the transporter the unit was sent in		
22 Click Save.	Click Save.		
23 Click No in the Enter Transfusion Data dialogue box.	Click No in the Enter Transfusion Data dialogue box.		
The "Issue/Transfusion" document should print on the printer.			

2. Issue/Transfusion Sheet

Step	Action
1	If patient care area requests a transporter or initiates a Massive Transfusion Protocol
	(MTP), then a seond Issue/Transfusion Sheet should be printed off.



2 If ste	If step 1 doesn't apply, proceed to section 4 for Second Person Review.		
3 To print a second Issue/Transfusion document:			
Sten	Action		
1	Open the <i>BBK Units</i> Desktop as described above		
2	Click on <i>Single</i> on the right side of the screen.		
3	Click on Print Cards		
	Inquiry A		
	Print Units C		
	Label Batch		
	Print Cards		
4	Click on Issue/Transfuse Card		
	Print Unit Cards		
	Inventory Card Assignment Card		
	Crossmatch Card		
	Issue/Iransruse Card		
5	Enter the patient's name and then press <i>Enter</i> .		
	Specimen * Unit Product PCS,BRYCE Image: Comparison of the second		
6	Choose the correct encounter by matching the H#.		
	Name Rithdate Account Num Status Date Location Med Rec Num		
	Image: Status Date Excedent Hum		
7	Choose the order that matches your blood product crossmatch.		
	H00000029496 - PCS,BRYCE 31/M		
	Specimen Status Collected Ordered		
	1027:BP00002R RECD 10/27/15-1335 RBC ORDER, XMISPIN 1027:BB00001R COMP 10/27/15-1335 GTS, RUN THE SCREEN, AB SCREEN		
	0 1027:BP00001R RES 10/27/15-1334 RBC ORDER, XMISPIN		
	0 0709:BB00006S ORD 07/09/15-1428 TX REACTION 0 0709:BB00005B ORD 07/09/15-1410 REQUEST PRODUCT		
	0 0709:BB00004S COMP 07/09/15-1159 ABO RH CONF		
	0 0709:BP00001R COMP 07/09/15-0736 RBC ORDER/2, XMISPIN/2		
	© 0709:BB00003R COMP 07/09/15-0736 GTS, RUN THE SCREEN, AB SCREEN © 0622:BB00001R CAN 06/22/15-1227 REQUEST PRODUCT		
8	Scan the unit barcode into the <i>Unit</i> field.		
	Specimen Unit Product		
9	Press F12 or click "OK".		
10	Choose the correct printer if not already in the field.		
11	Press F12 or click "OK".		



3. <u>Second Person Review</u>

Non-laboratory personnel or laboratory personnel NOT trained in blood bank

Step	Action				
1	A second staff member must perform a second check or verification BEFORE any				
	blood product is released to the patient care area	a for transfusion.			
2	Any Memorial Hospital/Memorial East Hospital	l employee is capable of performing the			
	verification check.				
3	The blood bank tech will retrieve the issued unit	t, the "Request Blood Product Delivery"			
	(if applicable), and the "Issue/Transfusion" shee	et.			
4	The second person will be given the issued unit	and Job Aid for second person review.			
	See Appendix B.				
5	The second person will check:				
	1. The unit has a Genesis Timestrip® Bloo	d Temp 10 temperature sticker attached			
	to the unit and that it is activated.				
	2. The unit has a crossmatch tag attached to 3. The base label has not been defected in a	D It.			
6	The second person will read the following while	the blood bank personnel checks the			
0	following information against what is read:	the close came personner checks the			
	The 2 nd person will read the following	Blood hank personnel checks			
	From the front of the unit	From the <i>Issue/Transfusion sheet</i>			
	1. The donor unit number.	1. The donor unit number.			
	2. The donor unit expiration.	2. The donor unit expiration.			
	3. The donor unit ABO and Rh type.	3. The donor unit ABO and Rh			
	4. The type of unit (ex. Red Blood	type.			
	Cells, Irradiated Red Blood cells)	4. The type of unit (ex. Red			
	5. If the unit is CMV negative or not.	Blood Cells, Irradiated Red			
	6. Any antigen typing results.	Blood cells)			
		From the "Request Blood Product			
		Delivery"			
		1. Patient special requirements.			
		2. Patient antigen negative			
		requirements.			
	From the transfusion label attached to the	From the "Request Blood Product			
	unit	Delivery"			
	1. The patient's full name	1. The patient's full name			
	2. The patient's date of birth	2. The patient's date of birth			



	number)	(Account number)		
	4. The interpretation of crossmatch	NOTE: The blood banker will make		
	where it says "Comp?" read "Y" or	sure that the interpretation read		
	"L". If unit is a plasma product, this	aloud is "Y" and if not, they are		
	will be blank.	aware of the reason before releasing		
		the unit to the patient care area.		
7	If all information matches, the second person will put their employee ID number next to			
	the issue tech's ID number on the Issue/Transfusion sheet that the blood bank will keep.			
	Proceed to step 9.			
8	If any of the information does not match, blood bank tech must investigate or have a			
	reason for the discrepancy. See the "Interpretation" section of procedure for further			
	instructions.			
9	Blood bank personnel will then staple or otherwise attach the "Request Blood Product			
	Delivery" sheet and the Issue/Transfusion sheet to each other and place in the review			
	box.			

Blood bank trained personnel

Step	Action		
1	A second staff member must perform a second check or verification BEFORE any		
	blood product is released to the patient care area for transfusion.		
2	If the second checker is blood bank trained, then continue to step 3. If the second		
	checker is not blood bank trained, then return to the previous section for personnel not		
	trained in blood bank.		
3	The issuing tech will retrieve the issued unit, the "Request Blood Product Delivery" (if		
	applicable), and the Issue/Transfusion sheet and give all to the second checker.		
4	The second checker will check:		
	1. The unit has a Genesis Timestrip® Blood Temp 10 temperature sticker attached		
	to the unit and that it is activated.		
	2. The unit has a crossmatch tag attached to it.		
	3. The base label has not been defaced in any way.		
5	The second checker will compare the following to ensure the they match exactly:		



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	Item checked	1 st	Comparison	2^{nd}	Comparison	
	1. Patient's full name		1. Request for		1. Transfusion Tag	
	2. Patient's H#		Delivery	2.	Transfusion Tag	
	3. Patient's DOB	2.	Request for	3.	Transfusion Tag	
	4. Patient's ABO/Rh		Delivery	4.	(Is it compatible with unit?)	
	5. Donor ABO/Rh	3.	Request for	5.	(Is it compatible with	
	6. Donor unit #		Delivery		patient?)	
	7. Donor unit expiration	4.	Transfusion Tag	6.	Front of donor unit	
	8. Special requirements	5.	Transfusion Tag	7.	Front of donor unit	
	9. Patient's antibodies	6.	Transfusion Tag	8.	Donor label and/or tags	
	10. Crossmatch results	7.	Transfusion Tag	9.	Donor label and/or tags	
		8.	Request for	10.	(If anything other than "Y",	
			Delivery		do you have a release	
		9.	Request for		signed?)	
			Delivery			
		10	. Transfusion Tag			
6	If all information matches, the second checker will put their employee ID number next					
	to the issue tech's ID number on the <i>Issue/Transfusion sheet</i> that the blood bank will					
	keep.					
7	If any of the information does not match blood bank tech must investigate or have a					
	rangen for the discrepancy. See the "Interpretation" section of presedure for further					
	in structions	. 5	ce the interpretation	3001	ion of procedure for further	
0	instructions.					
8	Blood bank personnel will	the	en staple or otherwise a	ttac	h the "Request Blood Product	
	Delivery" sheet and the Issue/Transfusion sheet to each other and place in the review					
	box.					

4. Transportation of Blood Products

	Policies						
1	All units must be transported out of the blood bank one at a time.						
	Note: Exception can be given to FFP orders and orders going out in transporters.						
2	Only a RN, LPN, physician or other personnel as indicated by blood bank supervisor or						
	laboratory management, may transport blood from the blood bank that is not in a						
	transporter.						
3	Any personnel wishing to transport blood from the blood bank must present a computer						
	generated piece of identification of the patient they are wishing to receive products on.						
	Handwritten or verbal confirmation will not be accepted.						
4	The second person check \underline{MUST} be performed before units can be removed from the						
	blood bank.						



- 5 Units can be transported in the following ways:
 - 1. Pick up by nurse/physician (see section below)
 - 2. Pneumatic tube system (see section below)
 - 3. Temperature controlled transporters (see *Transport of Blood Product in Blood Bank Transporters* SOP for procedure on transporters)

Nurse pickup

Step	Action							
1	Nurse/physician presents blood banker with patient identification.							
2	Blood banker retrieves unit to be given.							
3	If second person check has not been performed, perform with nurse/physician or							
	laboratory personnel. Otherwise, proceed to step 4.							
4	Compare the information, on the patient identification presented, to include:							
	1. Patient's full name							
	2. Patient's date of birth							
	3. Patient's H# (if available)							
	4. Patient's M#							
	If all information matches exactly, RECORD NAME OF PERSON PICKING UP							
	UNIT ON ISSUE/TRANSFUSION SHEET THAT IS KEPT IN BLOOD BANK,							
	then proceed to step 5. If there is a discrepancy, resolve before releasing units.							
5	Place unit in large biohazard plastic bag and seal.							
6	Hand off to nurse/physician.							

Pneumatic tube transport

Step	Action							
1	If second person check has not been performed, perform with other laboratory							
	personnel.							
2	Retrieve unit to be given.							
3	Place unit in large biohazard plastic bag and seal.							
4	Scan badge into tube system							
5	Press Send/Enter							
6	Press Menu							
7	Arrow down to User Special Function							
8	Press Send/Enter							
9	Arrow down to Badge Secure Transaction							
10	Press Send/Enter							
11	Enter the numeric code for the location that the unit needs to go to.							



12	Press Send/Enter						
13	If the unit on the other end does not pick up the unit within 5 minutes, the tube will						
	return to the blood bank station and you must scan your badge to retrieve tube.						

Interpretation

If any of the checks do not match or there are any discrepancies, they must be resolved before any units are released to a patient care area for transfusion. If discrepancies in computer information arise, contact the LIS team or the help desk to try to resolve. If discrepancies exist between the unit information or the patient testing, contact the blood bank supervisor for help in resolving. If unable to resolve, DO NOT release unit. Put unit in quarantine if it is a unit issue and perform the process again with a different unit. If it is a patient identification problem, return unit to inventory until resolved.

Result Reporting							
	NA						
References	 AABB. Standards for Blood Banks and Transfusion Services29th Edition. Std. 5.22, 5.22.1, 5.23, 5.25, Bethesda, MD: American Association of Blood Banks; 2014 SwissLog Pneumatic Tube Users Manual 						
Related Documents	Appendix A: Job Aid for Non-Blood Bank Personnel Performing Second Check Appendix B: Flowchart for Issue and Transport of Blood and Blood Products						



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Appendix A: Job Aid for Non-Blood Bank Personnel Performing Second Check

Please check donor unit for the following:

- \Box Unit has a temperature sticker attached to it
 - The sticker looks like the picture below with a green window above a white window outlined in red.



o If the sticker looks like either of the following pictures, alert blood bank personnel to correct.





- \Box Unit has the transfusion label attached to the unit in some way.
- □ The unit has no stray markings or defacement to its label.

Read the following to the blood banker from the *front* of the unit:

- \Box The donor unit number that starts with "W"
- \Box The donor unit expiration
- □ The donor unit ABO and Rh type.
- □ The type of unit (ex. Red Blood Cells, Irradiated Red Blood cells)
- □ Check if the unit has another barcode at the bottom right that indicates it is CMV neg-if so, indicate that to the blood banker.
- □ If the unit has any tags attached to it that indicate antigens it is negative for, read those to the blood banker.

Read the following to the blood banker from the transfusion label attached to the unit:

- □ The patient's full name
- \Box The patient's date of birth
- □ The patient's H number (Account number)
- □ The interpretation of crossmatch where it says "Comp?" read "Y" or "L". If unit is a plasma product, this will be blank.
- □ The issue date/time (underlined in example)

Memorial Hospital								
ASSIGNED TO -								
NAME ALL ACCHEDING	MR#							
LOC H. 2NE DOB:	TPX#							
PT'S HX TYPE A POSITIVE	ACCT#							
SPECIMEN # 1020:BP00004R	7							
COMP?: L DATE/TIME: 10/2	1/15 0744 TECH: <15481>							
PRODUCT INFORMATION -								
PRODUCT#: W333614117307	EXPR: 10/21/15 2005							
PRODUCT: PCD	PRODUCT TYPE: O NEG							

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MEMORIAL Issue and Transport of Blood and Blood Products BBBP 8.0 v2

Effective Date: 12/2/15





Title: Issue and Transport of Blood and Blood Products										
Written		Validated Path Review		Review Effect		tive	Decon for Donision			
Date	By	Date	By	Date	By	Date	By	Date	By	Reason for Revision
04/19/10	PAB	4/27/10	GJM	5/3/10	ESB			5/4/10	PAB	
Revised										
12/3/10	PAB	12/28/10	MLH	12/28/10	ESB			1/10/11	PAB	Updated for new tag format
5/13/11	PAB	5/28/11	MLH	6/6/11	ESB			6/14/11	PAB	Updated for new Meditech version
6/17/11	PAB			6/25/11	ESB			7/1/11	PAB	Removed three ply paper
8/13/12	PAB	8/14/12	GJM	8/21/12	ESB			8/21/12	РАВ	Revised for pneumatic tube transport and XM on demand
5/8/13	PAB			5/13/13	ESB			5/15/13	PAB	Revised issue to nursing
11/13/13	PAB			11/15/13	ESB			12/9/13	PAB	Included HemoTemp on PRBC
						4/1/14	PAB			
1/21/15	JLH							1/21/15	JLH	Added instructions to add issue location to match location.
2/5/15	JLH							2/6/15	JLH	Changed blood temp indicator to Timestrip
10/21/15	JLH	11/12/15	DMI	11/16/15	ESB			11/16/15	JLH	New header, more detail, changed second person review, added flowchart, changed flow for TAR implementation
11/18/15	JLH							11/18/15	JLH	Fixing typos and re- organize second review section.
11/30/15	JLH			12/2/15	ESB			12/2/15	JLH	Removed information related to the "Pre- approved documentation" field in ordering.

PROCEDURE AND FORM CHANGE CONTROL

Location of any copy(s) of the procedure:

Out of use:

Date:_____By:_____Reason:_____