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:	Laboratory Medical Director

Signature:

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## **Infant Transfusion**

<b>Purpose</b> To provide instructions and procedure for transfu	sion of an infant.
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**Background** Hemolytic disease of the fetus and newborn (HDFN), fetal/neonatal alloimmune thrombocytopenia (FNAIT), and immune thrombocytopenia (ITP) affect pregnant women and their fetuses and newborns. The blood bank and transfusion service play critical roles in supporting the diagnosis and treatment of these conditions.

#### **Specimen** Mother

- Anticoagulated (EDTA, heparin, ACD, AS-1, AS-3, AS-5, CPD, CPDA-1, CP2D) stored at 1-10°C for up to 10 days.
- Clotted stored at 1-10°C for up to 21 days.

#### Infant

- Clotted cord blood sample stored at 1-10°C for up to 10 days.
- Capillary or venous, anticoagulated (EDTA, heparin, ACD, AS-1, AS-3, AS-5, CPD, CPDA-1, CP2D) or clotted sample stored at 1-10°C for up to 10 days.

Donor unit

 Anticoagulated (EDTA, heparin, ACD, AS-1, AS-3, AS-5, CPD, CPDA-1, CP2D) donor unit segment stored at 1-6°C up to expiration.

Materials	5
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Reagents	Supplies	Equipment
<ul> <li>Anti-IgG</li> <li>Coombs Check Cells</li> <li>0.9 % buffered saline</li> <li>Enhancing reagent (PEG, LISS, Albumin)</li> </ul>	<ul> <li>Test tubes</li> <li>Test tube rack</li> <li>Disposable pipettes</li> </ul>	<ul> <li>Calibrated centrifuge</li> <li>Automatic cell washer (if different from above).</li> <li>Agglutination lamp</li> </ul>

# Quality

**Control** Reagents must be tested each day of use with appropriate controls. Verify that testing has been performed. If not, see SOP *Reagent Quality Control*.

## Procedure

## 1. <u>Set up of infant unit</u>

Step	Action		
1	This procedure should be performed	whenever the infant unit is greater than 10 days	
	old. Use Appendix A to determine the age of the unit.		
2	Order a PRBC unit from MVRBC that has/is:		
	• O Negative		
	• <10 days old		
	• CMV tested negative		
	• HgbS negative.		
	NOTE: We will accept a known Caucasian donor in lieu of HgbS testing and test it		
	ourselves. See HgbS Test Ordering and Resulting for instructions.		
3	Call MVRBC hub and indicate that the unit wasn't used to see if they want it returned.		
	If Then		
	MVRBC does want the unused,	Refer to Shipping Unit procedure how to ship the	
	>10 day old unit back,	unit back.	
	MVRBC does not want the	Place the unit on the regular inventory shelf.	
	unused, >10 day old unit back,		
4	Follow instructions in Receipt of Blood Components for entering unit and unit attributes		
	into Meditech system.		
5	Place the unit in a unit holder and then in the designated area of the refrigerator for the		
	infant transfusion unit.		
6	Record the date on a ">10 days On"	sticker that the unit will be $>10$ days old. See	
	Appendix B: >10 days On Sticker.		
7	Place the ">10 days On" sticker on t	he front of the unit, at the top, not covering the base	
	label.		

## 2. Infant transfusion-non-emergent

Step	Action
1	If notified of transfusion request by phone, indicate to caller that a product order should
	be entered into Meditech, if not already done, and a Request for Product Delivery order
	must be entered into Meditech.

Ite system and the current sample has a completed antibody screen done.         If       Then         Mother's sample is >72 hours,       Request floor order GTS.         There is no sample on mother ,       Request floor order GTS.         Only 1 ABO/Rh is in the       Order ABO confirmation or ABO verify as appropriate.         Current sample does not have an antibody screen completed,       Perform ABSCN on sample.         If mother has antibody history other than passive anti-D or allo anti-D,       • Notify the floor that a unit will need to be ordered and confirm that they will wait. If they can't wait, refer to section 3 on emergent transfusion.         • Antigen type current inventory units, if able, to find unit that is O Neg, <10 days old, CMV neg and HgbS neg.         • If unable to find suitable unit in current			momer that is 2 hours old, 2 ADO/Kit types are in</th
IfThenMother's sample is >72 hours,Request floor order GTS.There is no sample on mother ,Request floor order GTS.Only 1 ABO/Rh is in the computer,Order ABO confirmation or ABO verify as appropriate.Current sample does not have an antibody screen completed,Perform ABSCN on sample.If mother has antibody history other than passive anti-D or allo anti-D,• Notify the floor that a unit will need to be ordered and confirm that they will wait. If they can't wait, refer to section 3 on emergent transfusion.• Antigen type current inventory units, if able, to find unit that is O Neg, <10 days old, CMV neg and HgbS neg.• If unable to find suitable unit in current		the system and the current sample	has a completed antibody screen done.
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<ul> <li>other than passive anti-D or allo anti-D,</li> <li>ordered and confirm that they will wait. If they can't wait, refer to section 3 on emergent transfusion.</li> <li>Antigen type current inventory units, if able, to find unit that is O Neg, &lt;10 days old, CMV neg and HgbS neg.</li> <li>If unable to find suitable unit in current</li> </ul>		If mother has antibody history	• Notify the floor that a unit will need to be
<ul> <li>anti-D,</li> <li>they can't wait, refer to section 3 on emergent transfusion.</li> <li>Antigen type current inventory units, if able, to find unit that is O Neg, &lt;10 days old, CMV neg and HgbS neg.</li> <li>If unable to find suitable unit in current</li> </ul>		other than passive anti-D or allo	ordered and confirm that they will wait. If
<ul> <li>emergent transfusion.</li> <li>Antigen type current inventory units, if able, to find unit that is O Neg, &lt;10 days old, CMV neg and HgbS neg.</li> <li>If unable to find suitable unit in current</li> </ul>		anti-D,	they can't wait, refer to section 3 on
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<ul> <li>able, to find unit that is O Neg, &lt;10 days old, CMV neg and HgbS neg.</li> <li>If unable to find suitable unit in current</li> </ul>			• Antigen type current inventory units, if
<ul><li>old, CMV neg and HgbS neg.</li><li>If unable to find suitable unit in current</li></ul>			able, to find unit that is O Neg, <10 days
• If unable to find suitable unit in current			old, CMV neg and HgbS neg.
			• If unable to find suitable unit in current
inventory, order O Neg, <10 days old,			inventory, order O Neg, <10 days old,
CMV neg and HgbS neg unit from			CMV neg and HgbS neg unit from
MVRBC that is antigen negative for			MVRBC that is antigen negative for
mother's antibody(ies).			mother's antibody(ies).
If transfusing doctor can't wait Refer to section 3 on emergent transfusion.		If transfusing doctor can't wait	Refer to section 3 on emergent transfusion.
for any of the above to be		for any of the above to be	C .
performed,		performed,	
3 Make sure there is a sample on the baby that is <72 hours old and appropriate newborr	3	Make sure there is a sample on the	baby that is <72 hours old and appropriate newborn
testing for that specimen is complete.		testing for that specimen is comple	ete.
If Then		If	Then
There is no sample,Confirm with floor that baby has been born		There is no sample,	Confirm with floor that baby has been born
and registered.			and registered.
If baby has not been born and • Confirm with floor whether this is		If baby has not been born and	Confirm with floor whether this is
they are anticipating need, emergent or non-emergent.		they are anticipating need,	emergent or non-emergent.
• If emergent, refer to section 3.			• If emergent, refer to section 3.
• If non-emergent, continue to step 9 below.			• If non-emergent, continue to step 9 below.
4 Compare mother and baby samples to ensure that information on baby sample matches	4	Compare mother and baby samples	s to ensure that information on baby sample matches
mom's.		mom's.	
5 Print off 1 label for mother and 1 label for baby from Meditech.		Print off 1 label for mother and 1 1	abel for baby from Meditech.
6 Attach both labels to a Patient Manual Testing Form.	5		
7 Somewhere near the mother's label, indicate her historical ABORh type.	5 6	Attach both labels to a Patient Mar	nual Testing Form.
8 Somewhere near the infant's label, indicate it's historical ABORh type.	5 6 7	Attach both labels to a Patient Mar Somewhere near the mother's labe	nual Testing Form. 1, indicate her historical ABORh type.
9 Obtain mother's current sample for testing	5 6 7 8	Attach both labels to a Patient Mar Somewhere near the mother's labe Somewhere near the infant's label,	nual Testing Form. I, indicate her historical ABORh type. indicate it's historical ABORh type.

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10	Remove 1 tail segment from the donor unit to be transfused.
11	Record the donor unit number in the crossmatch section of the Patient Manual Testing
	Form by either writing it or affixing a donor unit label. See Result Reporting section
	for example.
12	Under the donor unit number, indicate that the mother's plasma was used for this
	crossmatch. See Result Reporting section for example.
13	In the "Markers, Attributes, Antigens" space, indicate that this is for an infant
	transfusion as well as any antigens the unit is negative for. See <i>Result Reporting</i> section
	for example.
14	Perform a full crossmatch using the mother's plasma and the donor unit cells according
	to the Crossmatch SOP.
15	Record the results on the <u>Patient Manual Testing Form</u> . See <i>Result Reporting</i> section
	for example.
16	If at any point in testing the crossmatch is incompatible, immediately inform the
	physician and pathologist of the incompatibility.
17	If the baby has not been born yet, the crossmatch can be performed, but it will not be
	able to be entered into Meditech until the baby is registered.
18	Once the baby is registered, perform steps 5-8 above. Then continue to step 19.
19	Using the baby's information, order an ABRO in Meditech. See SOP Ordering tests in
20	Meditech 6.0 for instructions.
20	Result the ABRO on the baby as positive or negative to match the mother's current
	antibody screen. See <i>Result Reporting</i> section for example and instructions.
21	Notify nursery to order unit on the baby in Meditech if not already done.
	NOTE: This may cause a GTS to be ordered by the system. Go in and cancel this GTS
	if ordered.
22	Go into BBK History module and change the default crossmatch for the baby to a full
22	crossmatch. See SOP Crossmatching Red Cell Products for instructions.
23	Enter the crossmatch results recorded on the <u>Patient Manual Testing Form</u> into
	Meditech on the unit order for the baby. See SOP Crossmatching Red Cell Products
	TOF INSTRUCTIONS.
24	Print off crossmatch tag and attach to crossmatched unit. See SOP Crossmatching Red
25	<i>Cell Products</i> for instructions.
25	issue unit to nursery following instructions in <i>Issuing Blood Products</i> SOP.
26	Continue to section 7.

## 3. Infant transfusion-emergent

Step	Action
1	If notified of transfusion request by phone, make sure to obtain mother's name, DOB
	and M# as well as infant's name, M# and whether the infant is born and registered in

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	Meditech yet.
2	Review mother's blood bank history, if able and available, to determine if mother has
	any clinically significant alloantibodies. Is so, notify nursery/L&D and confirm that
	floor still wants emergency release. If not, continue to step 3.
3	If baby is born, indicate the need for registration of baby before unit can be issued.
	Once born and registered, then continue to step 4.
4	Obtain a Blood Bank Emergency Consent Form.
5	Complete the following:
	1. Patient's name
	2. M#
	3. DOB
	4. Place an "X" in the box next to "Group O negative uncrossmatched red cells for
	an unknown blood type".
6	Obtain the infant transfusion unit from the refrigerator.
7	Obtain an "Uncrossmatched Blood" sticker and attach it to the unit.
8	Activate and attach a Genesis Timestrip® Blood Temp 10 temperature sticker as
	described in Genesis Timestrip Blood Temp 10.
9	From the main desktop in MCARE, open the <b>BBK Unit</b> desktop.
	Data Processing
	Outreach
	Patient Reports
	Requisition
	Specimen LAB Analyzer
	LAB Quality Control
	BBK Analyzer BBK Quality Control
	BBK Unit
	BBK History BBK Donor
10	Choose <b>Single</b> from the right menu bar.
	Single
	Worklist 🖉
	Unit Entry 🔹
	Process Units 4
	Change Units 🤎
11	Choose <b>Issue</b> from the right menu har
11	
	Search I and A and
	Transfuse
	Assign 🍘
	Reset Xmatch 📾
	Tx Reaction 🚱
12	Choose Emergency-Issue Units from resulting menu.

	Issue Units Issue Units Issue Units by Patient Emergency-Issue Units Release Issued Units
13	In the <b>Patient Name:</b> , type one of the following:
	a. The patient's name in the following format Last Name, First Name
	b. The patient's M number in the following format U#MXXXXXXX.
14	Select the correct patient by comparing all information available from the resulting list.
15	Select the current admission.
16	An error message will appear indicating that there are no crossmatched or assigned
	products for this patient. Press F12 or click Close.
	See the example in the <i>Reporting Results</i> section.
17	Scan the unit number barcode into the <b>Unit</b> field.
	NOTE: Depending on the patient's historical blood type, if there is one, an error
	message may indicate that the unit and patient's types do not match but are compatible.
	Click <b>OK</b> to continue.
18	In the <b>Spec</b> field, press "N" and then "Enter" on the keyboard. This will order a new
	specimen which we will cancel after we issue.
19	Notify the phlebotomists, either using the radio system or by calling the dispatch
	number, that the nursery draw for a blood bank tube should not be drawn.
20	Press the "Enter" key until the cursor is in the Messenger field and then enter the
	location that the unit is being sent to.
21	Inspect the unit according to Appendix E.
22	If unit is acceptable, press the "Enter" key until the cursor is in the Unit Acceptable?
	field and type "Y".
23	Press the "Enter" key until the cursor is in the <b>Filter Issued?</b> field and type "N".
	Filters for blood transfusion are maintained by nursing.
24	Press F12 or click Save to file transaction.
25	Click on <b>Print Cards</b> from the right side menu bar.
	Inquiry A
	Unit Labels
	Label Batch
	Print Cards
26	Choose Crossmatch Card from the box.
	Print Unit Cards
	Assignment Card
	Crossmatch Card Issue/Transfuse Card
27	Scan the unit number barcode into the <b>Unit</b> field.
28	Click OK
29	Choose the appropriate printer to print to if not already done.

30	Click OK
31	Attach Crossmatch sticker to unit.
32	An Issue/Transfusion sheet will print off after issue in Meditech. This will be used
	during second person check.
33	Continue to section 7.

#### 4. Infant exchange transfusion

**Policy:** Memorial blood bank does not perform product modification for infant exchange transfusions. Memorial can provide 1 unit of PRBC, as described above, and 1 unit of thawed FFP, assigned and issued, by following appropriate SOPs, to nursery. Plasma issued on infant should be compatible with **Baby's ABO/Rh** type. Type AB pos or neg should be given if Meditech does not allow for issue of other types on infant. Every effort should be undertaken to avoid giving type AB plasma due to the increased incidence of TRALI with type AB plasma. At this point, nursery can manipulate units to perform exchange transfusion, however, once units are entered, units cannot be stored in any refrigerator outside of the blood bank, nor can they be returned to the blood bank to be used for infant at a later date.

#### 5. Infant platelet transfusion

**Policy:** Memorial blood bank does not provide product support for platelet transfusions of infants. Platelet transfusions for infants are best served by transfusion of pheresis of mother's platelets. CTA can be contacted by the nursery physician to inquire about this option if mother is able to provide. In the event that this is not an option, Memorial can provide 1 unit of random platelets, assigned and issued by following appropriate SOPS to nursery. Memorial is not equipped to handle the request for these special products at this time.

#### 6. Infant plasma transfusion

**Policy:** Memorial blood bank does not perform product modification for infant plasma transfusions. Memorial can provide 1 unit of thawed FFP, assigned and issued, by following appropriate SOPs, to nursery. Plasma issued on infant should be compatible with **Baby's ABO/Rh** type. Type AB pos or neg should be given if Meditech does not allow for issue of other types on infant. Every effort should be undertaken to avoid giving type AB plasma due to the increased incidence of TRALI with type AB plasma. At this point, nursery can manipulate units to perform plasma transfusion, however, once units are entered, units cannot be stored in any refrigerator outside of the blood bank, nor can they be returned to the blood bank to be used for infant at a later date.

#### 7. <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 <b>BEFORE</b> any		
	blood product is released to the nursery for transfusion.		
2	Any Memorial Hospital employee is capable of performing the verification check. In		
	emergent situations, this may be performed with the nurse in the patient care area at the		
	time of product delivery.		
3	The blood bank tech will retrieve the issued unit, the <u>Request Blood Product Delivery</u>		
	and the Issue/Transfusion sheet.		
	NOTE: If emergent situation, there will not be a Request Blood Product Delivery.		
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® 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.		
6	The second person will read from the front of the unit:		
	1. The donor unit number.		
	2. The donor unit expiration.		
	3. The donor unit ABO and Rh type.		
	4. The type of unit (ex. Red Blood Cells, Irradiated Red Blood cells)		
	5. If the unit is CMV negative or not.		
	6. Any antigen typing results.		
7	As the second person reads from the front of the unit, the blood bank personnel will		
	check the information against the information located on the <u>Issue/Transfusion sheet</u>		
	and the antibody and special requirement information that they recorded on the <u>Request</u>		
	Blood Product Delivery sheet.		
8	The second person will then read the following from the transfusion sticker attached to		
	the unit:		
	1. The patient's full name		
	2. The patient's date of birth		
	3. The patient's H number (Account number)		
	4. The interpretation of crossmatch where it $\frac{1}{2}$		
	says "Comp?" read "Y" or "L". If unit is a		
	plasma product, this will be blank.		
0	5. The issue date/time.		
9	As the second person reads from the transfusion sticker, the blood bank personnel will		
	check the information against the information located on the <u>Request Blood Product</u>		
10	Delivery sheet.		
10	In an information matches, the second person will put their employee ID number next to		
	the issue tech s 1D number on the issue/iransfusion sneet that the blood bank will keep.		

	Proceed to step 12.
11	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.
12	Blood bank personnel will then staple or otherwise attach the <u>Request Blood Product</u>
	Delivery sheet and the Issue/Transfusion sheet to each other and place in the review
	box.
13	Continue to section 8.

## Blood bank trained personnel

Step	Action			
1	A second staff member must perform a second check or verification <b>BEFORE</b> any			
	blood product is released t	blood product is released to the patient care area for transfusion.		
2	If the second checker is bl	ood bank trained, then cor	ntinue 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 retrie	eve the issued unit, the <u>Re</u>	quest Blood Product Delivery and	
	the Issue/Transfusion shee	et and give all to the secon	d checker.	
4	The second checker will c	heck:		
	1. The unit has a Gen	esis Timestrip® Blood Te	emp 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 c	ompare the following to e	nsure the they match exactly:	
	Item checked	1 <sup>st</sup> Comparison	2 <sup>nd</sup> 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		

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	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 Issue/Transfusion sheet that the blood bank will		
	keep.		
7	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.		
8	Blood bank personnel will then staple or otherwise attach the <u>Request Blood Product</u>		
	Delivery sheet and the Issue/Transfusion sheet to each other and place in the review		
	box.		
9	Continue to section 8.		

#### 8. <u>Delivery to nursery</u>

	Policies		
1	All units must be transported out of the blood bank one at a time. 1 unit for an infant can		
	last 4 transfusions depending on infant's weight.		
2	Once unit has been entered, it cannot be returned to the blood bank, however, the		
	transfusionist can continue to transfuse syringes from that unit for 4 hours from the time		
	of issue.		
3	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.		
4	Any personnel wishing to transport blood from the blood bank must present a typewritten		
	piece of identification of the patient they are wishing to receive products on. <i>Handwritten</i>		
	or verbal confirmation will not be accepted.		
5	The second person check MUST be performed before units can be removed from the		
	blood bank, unless unit is delivered by blood bank personnel to nursery and second check		
	is performed there with nurse.		
6	Units can be transported in the following ways:		
	1. Pick up by nurse/physician (see section below)		
	2. Delivery by blood bank personnel to nursery (see section below)		
	3. Pneumatic tube system (see section below)		

## 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.

4	Place unit in large biohazard plastic bag and seal.
5	Hand off to nurse/physician.
6	If emergent situation, continue to step 8.
7	If non-emergent, continue to section 9.
8	If emergent situation that requires a <u>Blood Bank Emergency Consent</u> form to be signed
	by the doctor, give form to nurse/physician picking up the unit and be sure that they
	understand that the ordering physician needs to sign and send back to the blood bank.
9	If <u>Blood Bank Emergency Consent</u> form sent for signature, leave a note for supervisor
	if not returned within 24 hours.
10	Continue to section 9 in emergent situations.

Delivery by blood bank personnel to nursery

Step	Action	
1	Blood banker retrieves unit to be given.	
2	If second person check has not been performed, perform with nurse/physician or	
	laboratory personnel, or it can be performed in nursery with nurse. Be sure to take the	
	Job Aid for Second Person Review to nursery if nurse is to perform second check.	
3	Place unit in large biohazard plastic bag and seal.	
4	Take biohazard bag with unit and Job Aid, if applicable, to nursery for delivery.	
5	Nurse/physician in nursery will then present blood banker with typewritten patient	
	identification.	
6	If second person check has not been performed, perform according to <i>Issuing</i> SOP.	
7	If not emergent situation, hand bag with unit to nurse/physician and continue to section	
	10.	
8	If emergent situation, continue to step 9.	
9	If emergent situation that requires a <u>Blood Bank Emergency Consent</u> form to be signed	
	by the doctor, give form to nurse/physician receiving the unit and be sure that they	
	understand that the ordering physician needs to sign and send back to the blood bank, if	
	unable to sign right then.	
10	If <u>Blood Bank Emergency Consent</u> form left for signature, leave a note for supervisor if	
	not returned within 24 hours.	
11	Continue to section 9 in emergent situations.	

## 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.

	If emergent situation that requires a <u>Blood Bank Emergency Consent</u> form to be signed		
	by the doctor, send form in biohazard bag pocket with unit and be sure that they		
	understand that the ordering physician needs to sign and send back to the blood bank.		
	If not emergent, continue to step 3.		
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	Call nursery and notify them that you have sent unit through the tube system.		
14	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.		
15	If <u>Blood Bank Emergency Consent</u> form sent for signature, leave a note for supervisor		
	if not returned within 24 hours.		
16	If non-emergent, continue to section 10.		
17	If emergent, continue to section 9.		

## 9. <u>Post-Issue Functions for Emergent Transfusions</u>

Step	Action	
1	After issuing emergency units, testing for the crossmatches are automatically reflexed in	
	Meditech.	
2	Make sure there is a sample on the	mother that is <72 hours old, 2 ABO/Rh types are in
	the system and the current sample	has a completed antibody screen done.
	If	Then
	Mother's sample is >72 hours,	Request floor order GTS.
	There is no sample on mother,	Request floor order GTS.
	Only 1 ABO/Rh is in the	Order ABO confirmation.
	computer,	
	Current sample does not have	Perform ABSCN on sample.
	an antibody screen completed,	
	If mother has antibody history	• Notify the floor that the unit sent for the infant
	other than passive anti-D or	has not been tested for mother's antibody.
	allo anti-D,	• Retrieve segment from bag from the day the
		unit was received by the blood bank.

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• Test unit segement for the offending antigen if antisera available.           • If antisera available, send segment for antigen typing to reference lab after crossmatching.           3         Make sure there is a sample on the baby that is <72 hours old and appropriate newborn testing for that specimen is complete.           If         Them           There is no sample,         • Request sample as soon as possible.           • Compare mother and baby samples to ensure that information on baby sample matches mom's.           5         Print off 1 label for mother and 1 label for baby from Meditech.           6         Attach both labels to a Patient Manual Testing Form.           7         Somewhere near the infant's label, indicate her historical ABORh type.           8         Somewhere near the infant's label, indicate her historical ABORh type.           9         Obtain mother's current sample for testing           10         Retrieve tail segment for unit sent by locating the segment bag labeled to include the day the unit was received by Memorial blood bank.           11         Record the donor unit number, indicate that the mother's plasma was used for this crossmatch. See <i>Result Reporting</i> section for example.           12         Under the donor unit number, indicate that the mother's plasma was used for this crossmatch. See <i>Result Reporting</i> section for example.           13         In the "Markers, Attributes, Antigens" space, indicate that this is for an infant transfusion that was emergency released.			
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	20	The RBC order and crossmatch we	re already created when the unit was issued.

21	Go into <b>BBK History</b> module and change the default crossmatch for the baby to a full						
	crossmatch. See SOP Crossmatching Red Cell Products for instructions.						
22	Enter the crossmatch results recorded on the Patient Manual Testing Form into						
	Meditech on the unit order for the baby. See SOP Crossmatching Red Cell Products for						
	instructions.						
23	Continue to section 10						

#### 10. Finalizing paperwork

Step	Action						
1	Create a manila file folder for manual testing documents using infant's information.						
	See Antibody Detection and ID SOP for instructions.						
2	Confirm that all associated tests in Meditech for mother and infant are in "COMP"						
	status.						
3	If Blood Bank Emergency Consent form was sent to floor, ensure that it has been						
	returned or that follow-up has been performed and communicated to next shift.						
4	Confirm that unit is in "ISS" or "TRFS" status in Meditech.						
5	If transfusion reaction occurs, see appropriate SOP for instructions.						
6	If unit is returned after issue, follow all applicable SOPs for return of unit.						
7	Place all paperwork in review box.						

## Interpretation

Notes:

- 1. Full crossmatch for infants of mothers with negative antibody screens are not required, however, due to infrequency of this procedure being used, management has opted to be cautious and require full crossmatch.
- 2. The requirement of baby's sample <72 hours old is due to restraints of the Meditech system. Until an infant reaches 4 months of age, the immune system is too immature to produce antibodies to antigens it is exposed to during transfusion, therefore additional testing for additional transfusions is not necessary. In the event of an infant's lengthy admission that requires additional transfusions, another testing result with no associated sample or charges that includes disclaimers that the results were not tested but based on previous results in order to avoid additional drawn on small blood volume infant may be used at the discretion of the supervisor/manager and/or the pathologist.

## Result Reporting

#### **Reporting results in MCare**

#### 1. Entering ABRO on infant

Step	Action							
1	Go to the <b>Specimen module</b> in the blood bank module.							
2	Click on Enter Results							
	Single 🧳							
	Worklist 00							
	Edit 💜							
	Enter/Edit Reg 📝							
	Cancel Ax							
	Worksheets 🖤							
	Enter Results 🛛 😵							
	Entry Screen 🏂							
	Workcards 🗊							
	Inquiries 🗈							
3	In the <b>SPEC</b> field, type one of the following:							
	a. The infant's name in the following format Last Name, First Name							
	b. The infant's M number in the following format U#MXXXXXX							
	c. The specimen BB number							
4	Select the correct patient by comparing all information available from the resulting list.							
5	Select the correct admission by matching the H number on the specimen to the H							
6	From the list of tests, choose the line that contains "APPO"							
7	Once in the results entry screen place the cursor in the <b>AB SCREEN B/O</b> field and the							
/	following window appears at the bottom of the screen.							
	Component Test y Desult Ela							
	1 AB R/O							
	2 INTERPRETATION ->							
0	Diago your ourser in the <b>AD</b> $D/O$ field and either mass $DO$ for extra extinct $i$							
ð	"POS" or "NEG" depending on the mother's results on the current specimen							
9	The <b>INTERPRETATION</b> field will automatically populate with the entry from the							
	previous field.							
10	Place the cursor in the <b>INTERPRETATION</b> field and then click on <b>Comments</b> at the							

	bottom of the screen.						
11	The following dialog box will appear.						
	LAB.BMH - Result Comments (Test=INTERPRETATION, Result=POSITIVE)						
	Cancel Save						
12	Press F5 and then F9 for list of canned comments.						
13Add the canned comment INFTRANS and press F12 or click Save.							
14	Then press F12 or click <b>Save</b> to save transaction.						

#### Example of emergent issue of units screen

Patient BABY,LU	CI							
Unit W333615012345	Product PCL	Type O-	Expiration 11/30/15-2	Stat AVL	Hx	Specimen NEW	Inspection	
* Issue Date   * Time * Issued By Messenger * Issue Location	11/05/15 15481 H.1WNUR	1616		Wkld Func Card Printe Card Form Jnit Locatio	r on	LABBBP01 IT		
*UNIT APPEARANCE ACCEPTABLE? Y *FILTER ISSUED? - IF YES, ADD FILTER CHARGE. N								

#### Reporting results on manual testing form.

Unit #	Unit	Crossmatch					
if available	туре	IS	37C	lgG	СК	lgG Method	Markers Attributes Antigens
W333615015183 (Mother's plasma)	O Neg	0	NA	0	3+	PEG NEO ECHO ( LISS	Infant transfusion Compatible Incompatible

 References
 AABB. Standards for Blood Banks and Transfusion Services--30<sup>th</sup> Edition. Std. 5.14, 5.14.1, 5.14.2, 5.14.3, 5.14.3, 1, 5.14.3.2, 5.14.3.3, 5.14.3.4, 5.15, 5.15.3, 5.16, 5.16.1, 5.16.1, 1, 5.17, 5.17, 5.17, 1.1, 5.17, 1.2, 5.17, 1.3, 5.22, 5.22.1, 5.23, 5.25, 5.27, 5.27, 1, 5.27.2, 5.27.3, 5.27.4, 5.27.5, 5.27.5, 5.27.5.1, Bethesda, MD: American Association of Blood Banks; 2015

 Josephson CD, Meyer E. Neonatal and Pediatric Transfusion Practice. In: AABB. Technical Manual--18<sup>th</sup> Edition. Bethesda, MD: AABB; 2014: 571-591.

# Related Documents

Appendix A: Unit Dating Chart Appendix B: >10 days On Card Appendix C: Infant Transfusion Flowchart Appendix D: Emergency Consent Form-Example Appendix E: Inspection Criteria for Blood Products

## **Appendix A: Unit Dating Chart**

**Instructions:** Find the product code of the unit on the table below. Take the expiration date of the unit and subtract the corresponding number of days found in the "Calculation" column. The result is the collection date. Take the current date and subtract the collection date. The result is the age of the unit.

Example: Exp. 11/30/15 Product Code is E0336 Today's date: 11/1/15

(11/30/15-42 days)=10/19/15 (11/1/15-10/19/15)=13 days old

Alternative: is to open the "I" drive then open the excel spreadsheet called "Blood Bank Excel Apps". Go to the "Unit Date" tab and type in the product code and the expiration of the unit. The age is calculated for you.

Product	Product Code	Calculation
LR Red Blood Cells	E0181	-21 days
	E0209	-35
	E0226	-35
	E0311	-42
	E0336	-42
	E0401	-42
	E0424	-42
	E0678	-42
	E0685	-42
	E0686	-42
	E4531	-42
	E4532	-42
	E4533	-42
	E4543	-42
	E4544	-42
	E4545	-42
IRR LR Red Blood Cells	E0179	-21
	E0207	-28
	E0224	-28
	E0307	-28
	E0332	-28
	E0379	-21
	E0382	-21
	E0398	-28
	E0420	-28
	E0661	-28
	E0668	-28
	E0669	-28
	E4526	-28
	E4527	-28
	E4528	-28
	E4538	-28
	E4539	-28
	E4540	-28

# Appendix B: >10 days Sticker





#### **Appendix D: Emergency Consent Form-Example**

MEMORIAL BLOOD BANK EMERGENCY CONSENT Patient Name DOB EMERGENCY SITUATION Group O negative uncrossmatched red cells for an unknown blood type G Group specific uncrossmatched red cells for patient with antibody screen/identification pending Group specific uncrossmatched red blood cells with incomplete unit testing Group AB plasma for an unknown blood type Incompatible crossmatch due to atypical antibody Rh positive red blood cells to an Rh negative patient Note: Units released from the Blood Bank with incomplete patient or unit testing will have all pretranfusion and compatibility testing completed as soon as possible. The requesting physician and blood bank Medical Director will be notified immediately if any incompatibility is detected. If release is due to incompatible crossmatches, this form is valid until expiration of the blood bank specimen. Blood bank specimen will expire after 72 hours and new testing will be required. Physician Approval/Signature for Emergency Release of Blood Products I (we) as the physician(s) responsible for the care of the above patient direct the Blood bank to release the requested blood and/or blood products. To withhold transfusion of blood and/or blood products would jeoperdize the life of the patient and, in my (our) judgment, the benefits of transfusion outweigh the risk. 1020 Physician Signature Physician Name (print) Signature of person authorized to sign on the physician's behalf Signatur Date Time Date 2/1/6 Time 05 🔯 Witness Signature

Do Not Write Below This Line

ALL ARE ARE A AND AND AND A AND A REAL PROPERTY.

Job Aid: Recei	pt/ Return of Product to MVRBC		
Inspection         Products are to be inspected upon receipt and prior to returning to MVRBC.         Inspect the component to verify:         • Sealed closures         • Proper labeling         • Legible barcodes and volumes         • Label volumes are appropriate, if applicable         • Acceptable appearances:         If Shipping         Then Inspect For         Red Blood         • Segments much lighter in color than that of the bag         • Red cell mass that looks purple         • Visible clots         • Purple, brown, or red plasma         • Zone of hemolysis above cell mass	Receipt         • Obtain the temperature of products using a calibrated thermometer.         Product       Acceptable Temperature         Red Blood Cells       1-10°C         Platelets       20-24°C         Frozen Products       ≤ -18°C         • Inspect the units for acceptability.         • Per your facility's SOP, documents the temperature of the product, technologist receiving the product, and the date.         Return         • Remove any labels that have been attached to the product by your transfusion service.         • Inspect the units for acceptability.         • Per your facility's SOP, documents the temperature of the product, technologist receiving the product, and the date.         Return         • Remove any labels that have been attached to the product by your transfusion service.         • Inspect the units for acceptability.         • Pack product in MVRBC shipping cooler/ box:         Red Blood Cells         1.       Place units in bottom of cooler or box.         Cooler Maximum       Rubbernaid – 20units		
Platelets       • Grossly visible red cell contamination         • Fuzzy bacterial colonies       • Grossly visible platelet aggregates         • Frozen Products       • Evidence of thawing and refreezing         • Evidence of breakage       • Red cell contamination in the plasma or in the segment	Box Maximum       30 units         2.       Place paper towel or newspaper over units.         3.       Place bag of wet ice, double bagged to prevent leakage, on top of paper towel/ newspaper.         Platelets       Random Donor Platelets Maximum         15 units       15 units         1.       Place a gel pack* on bottom of inner box.         2.       Wrap platelets in at least 3 sheets of bubble wrap.         3.       Wrap bundle in absorbent pad and place on top of gel pack.         4.       Place second room temperature gel pack* on top of platelet bundle.         5.       Fill air space with crumpled newspaper (as needed).		
contact the blood center.	Close inner box lid, then close outer box lid.     Gel pack to be maintained at 20-24°C when not in use     Document that products meet requirements for return by signing and dating the Return Shipment Packing Slip and enclose in box/ cooler for return.		

# **Appendix E: Inspection Criteria for Blood Products**

Title: Infant Transfusion										
Writte	en	Valie	lated	Path Review		Rev	iew	Effective		Reason for
Date	By	Date	By	Date	By	Date	By	Date	By	Revision
11/4/15	JLH	11/15/15	Multiple	1/5/16	ESB					New Procedure
REVISED										
4/15/16	JLH							4/25/16	JLH	New Header

#### PROCEDURE AND FORM CHANGE CONTROL

Location of any copy(s) of the procedure:

#### Out of use:

Date:	В	v:	Reason:
Dail	<b>D</b>	y•	