

Pediatric Blood Aliquot Ordering: Talking Points

This document outlines the specific considerations related to pediatric blood aliquot ordering – the key audience should be ordering providers who may order these blood products. Pediatric blood ordering is a risky workflow, as it works differently compared to SCM. This document outlines differences you need to communicate and reinforce with providers as they prepare to go to Epic training and to be mindful of during go-live.

Objectives:





- Communicate several significant workflow changes with providers. Epic will have 4 order sets for pediatric blood products (MTP is the exception) that are required for ordering aliquots. Once inside of the order set, providers will have to choose between units or mLs (aka aliquots).
- Educate that each aliquot is its own order which requires the provider to designate the size of that specific aliquot. They will no longer have a total volume and “divide into X aliquots” single order.
- Reinforce whole blood is not issued in multiple aliquots. Therefore, whole blood is only available for 1 aliquot.
- Understand that MTP is not changing – you will continue to order based on weight and order in units (not volume).

How it Works







1) Pediatric/NICU Blood Product Order Sets...

- a. Today in SCM, when a clinician searches for the transfusion orders, they are not unique to NICU or Pediatrics

-  Transfuse Cryoprecipitate.
-  Transfuse Fresh Frozen Plasma.
-  Transfuse Platelets
-  Transfuse Red Blood Cells

- b. In Epic, four unique order sets exist based on the location or need of the patient (NICU, OR, Pediatric, and Peds Emergency Release). MTP is an Order Panel which allows you to order units, not volume, consistent with SCM.

	NICU Blood Product Transfusion
	OR Pediatric Blood Product Transfusion
	PED Emergency Release Blood Transfusion (Uncrossmatched)
	Pediatric Blood Product Transfusion

2) Ordering differences

- a. Today, you order your aliquots by designating a total volume to be transfused and how many aliquots you want to split into.

Transfuse Red Blood Cells [2 orders of 15 are selected] [Last clinically significant modification on Aug 07 2015]

☒ Conditional Order ☐ Max # of activations:

Laboratory Tests:

Order	Requested Date	Priority	Special Instructions
<input type="checkbox"/> Blood Type	T	Draw Now	
<input type="checkbox"/> Antibody Screen	T	Draw Now	
<input checked="" type="checkbox"/> Post Transfusion (Conditional) - 1 item(s)			
<input type="checkbox"/> Hemoglobin and Hematocrit	T	Draw Now	

***** NOTE: If no results for TYPE and ANTIBODY SCREEN appear in Relevant Result field above, please CHECK OFF Blood Type and Antibody screen. *****

☒ Emergency Release: ☐

☒ Reason (Required) for Emergency Release:

☒ NEEDED FOR: Transfusion

☒ Transfuse Date: 04-20-2022 ☒ When Needed: Routine

☒ Number of Units: ☒ Number of mls (Total) for Peds: 50 ☒ Number of Aliquots: ☒ Time to Wait Between Aliquots:

☒ Special Needs (+):

☒ Transfusion Indicator:

☒ Other Indicator:

☒ Diagnosis or Surgical Procedure:

Diphenhydramine ADULT Instructions

- b. In Epic, once the provider has selected the specific blood product they must designate the specific size **of each individual aliquot**. They must also answer required questions for indications, transfusion duration, and estimated date/time of transfusion for each individual aliquot. Questions that transfer between orders include the indications, consent, duration, blood warmer, and special instructions.


☒ In mLs - Red Blood Cells

Each prepare order volume should equal the volume of the bag/syringe to transfuse.

☐ 1 Aliquot Red Blood Cells☒ 2 Aliquots Red Blood Cells☒ Red Blood Cells Aliquot 1


Each prepare order volume should equal the volume of the bag/syringe to transfuse.

Prepare leukoreduced RBC (in mL)

 Routine

 And


Transfuse leukoreduced RBC (in mL)

 Routine

☒ Red Blood Cells Aliquot 2


Each prepare order volume should equal the volume of the bag/syringe to transfuse.

Prepare leukoreduced RBC (in mL)

 Routine

 And

Transfuse leukoreduced RBC (in mL)

 Routine

In this example 2 Aliquots are selected and you are presented with 2 linked Prepare and Transfuse orders

- Like SCM, Epic has 2 orders required during ordering
- The first is the Prepare order which sends information to Blood Bank on how much and what type of blood to prepare for the patient.
- The second is the Transfuse order which is what nursing acts upon and contains instructions on how to transfuse the product.
- For aliquots, it is vital that the Prepare and Transfuse orders match for volume (i.e. Prepare 100mL, Transfuse 100mL)

Each prepare order volume should equal the volume of the bag/syringe to transfuse.

Prepare leukoreduced RBC (in mL)
Routine

Priority: Routine

Prepare:

Special requirements: ☐ Irradiated ☐ Washed ☐ CMV Negative ☐ Sick Cell (Hgb S) Negative

☐ Save as patient's requirements?

Transfusion indications

☐ Active bleeding ☐ Acute coronary syndrome: Hgb 8 to 10 g/dL

☐ Coronary Artery Disease: Hgb <10g/dL ☐ Acute neurological event: Hgb 8 to 10 g/dL

☐ Asymptomatic and Hgb <=7 g/dL ☐ Bone marrow suppression/chemo: Hgb <8 g/dL

☐ Exchange transfusion ☐ Hemodynamically unstable ☐ Sick cell/thalassemia

☐ Symptomatic anemia ☐ Transfusion dependent chronic anemia

☐ Postop CT surgery: Hgb <=7.5 g/dL ☐ Other (comment)

Has consent been obtained?

Transfusion duration per unit/aliquot (hrs):

Donor Source:

Use blood warmer?

Aliquot Number:

Date to Transfuse Aliquot 1:

Time to Transfuse Aliquot 1:

Additional Special Instructions:

Comments:

Note the Aliquot Number field near the bottom of the order, this number changes as you move into the second/third/fourth aliquot

c. Once completed, the nurse will see these orders and act upon them

Blood Product Orders					Expand Hide
(From admission, onward)					
Ordered				Start	Notify Me
03/01/22 1210	>	Prepare leukoreduced RBC (in mL): 110 mL Blood - Once	Reprint	03/01/22 1211	
"And" Linked Group Details					
03/01/22 1210	>	Prepare leukoreduced RBC (in mL): 110 mL Blood - Once	Reprint	03/01/22 1211	
"And" Linked Group Details					
Completed Blood Product Orders					
(12h ago, onward)					
None					
General Blood Transfusion Orders					Expand Hide
(From admission, onward)					
Transfusions to release					
Ordered				Start	
03/01/22 1210	>	Transfuse leukoreduced RBC (in mL) : 110 mL Transfusion (0 of 1 released)	Release		Unscheduled
"And" Linked Group Details					
03/01/22 1210	>	Transfuse leukoreduced RBC (in mL) : 110 mL Transfusion (0 of 1 released)	Release		Unscheduled
"And" Linked Group Details					

3) MTP is not changing – you will continue to order MTP in units (not mLs) and nursing will document the product totals in Epic and blood labels will be sent to blood bank.

Learn More



Learning Home Dashboard: Inpatient Clinical Learning Home Dashboard

Remember – Tip sheets on the Learning Home Dashboard.

The changes identified in this document are significant to your hospital. Please reference the following Tip Sheets:

- Blood Product Transfusion Future Scheduled State Order
- Blood Product Transfusion Order
- Placing a Blood Transfusion Order for the OR

Note that the information on the Learning Home Dashboard is current. If you download or print a copy of the Tip Sheet, it will may not reflect the most up to date information. Make it a habit to always view the Tip Sheet within Epic.

Remember



Playground

Once you complete your training, you may access the Epic Playground environment. Use this environment to learn and practice the new Epic workflows.

Focusing on the changes identified in this document will help your hospital in the successful implementation.

As part of the Playground environment, you will have access to the Learning Home Dashboard to learn about other changes

You Can Also



View the Change Video

A demonstration was held and recorded for this workflow. The demonstration is located in NetLearning for the user to locate and assign to themselves using the "Learning Opportunities (Enroll)" button. To locate the recording for this change, and all other recorded demonstrations, search for "Change Management" and select the appropriate demonstration.

Questions can be sent to your informatics representative. If they cannot answer the question, they will partner with you to find the answer with the EpicTogether Team.

Version	Purpose of Change	Author	Date of Change
1.0	Initial Creation	Selena McClinton Jordan Musleh	4/26/2022