niversity of Washingt	on Medical Center	Original Effective Date:	Number:
Department of LABORATORY MEDICINE		( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	WWW

Revision Effective Date:

TITLE: Order Processing

**Transfusion Services Laboratory** 

**Policies and Procedures Manual** 

#### **PURPOSE:**

To describe the process by which orders are received, routed, prioritized and completed.

#### PRINCIPLE & CLINICAL SIGNIFICANCE:

Timeliness and accuracy of the Transfusion Service can directly impact patient outcomes and customer satisfaction. Delays or inaccuracies can fail to prevent, or may even cause morbidity and mortality.

# **POLICIES:**

- Timely communication must occur with clinical care staff to prevent delay when specimens must be drawn in order to fill blood component orders.
- Verbal orders may be received from patient care areas in emergent situations (during MTP and OR procedures) and must be followed up with written or signed verbal orders
- All orders must be reviewed for patient attributes and new attributes entered in SQ and honored until a review for acceptability can be made by the TSL Medical Director or Resident
- Type & Screen Extended Expiration (TSCREX) orders may be collected up to 30 days in advance of a surgical procedure or prior to radiation isolation but must be tested within 3 days of collection
- Patients with clinically significant antibodies and current positive antibody screens do not qualify for TSCREX (electronic crossmatch battery) and must be recollected within 3 days prior to the scheduled procedure or transfusion need
- Red blood cell (RBC) component orders require two valid blood types on file from the inhouse TSL prior to release of crossmatched units. The blood types must be performed on two separately drawn specimens
- Non-RBC Component orders require a single ABO/Rh on file from the in-house TSL prior to processing
- Release of platelet components are restricted to two per day except as approved by the TSL MD or cases of large volume blood loss
- Additional units can be added to an existing plasma and cryoprecipitate orders during the same date
- Type & Screen (TSCR) and Crossmatch (TXM) orders are valid for 3 days from the date of collection (day 0) and additional RBC units may be added to the order during this time
- Bone Marrow Donor specimens are considered blood donor samples and ABO/Rh testing must include the weak D test

#### **SPECIMEN REQUIREMENTS:**

EDTA is preferred and if not tested soon after collection, should be stored at 1-6°C Red top clotted blood samples are also acceptable See SOP Specimen Acceptability

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# **REAGENTS/SUPPLIES/EQUIPMENT:**

Reagents:	Supplies:	Equipment:
• NA	Accession Labels	• LIS
	Requisition	Bar-code reader
		Time stamp

# **QUALITY CONTROL:**

NA

## **INSTRUCTIONS:**

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**Order Acceptability** 

STEP	ACTION		
1	Review the patient's history in Sunquest (SQ) according to SOP Patient History Check (HXCK)		
2	Enter the patient name in BBI (Blood Bank Inquiry) in SQ		
	Verify the patient name and MRN in SQ matches the name and MRN on the specimen label and requisition		
	If Name and MRN		Then
	Matches		Go to next step
3	Does not match		Resolve the discrepancy before proceeding  Access ORCA/EPIC  Compare information  Review alias names in EPIC  Patient Profile/Demographics  Contact clinical care staff and verify patient name on armband  Proceed with LIS correction if indicated
4	Click on the 'Order' tab to display current orders		
	Determine if the	order just received is	s a duplicate or new order
	If	Then	
	New	Go to next step	
5	Duplicate	Cancel order (refer to SOP Canceling Orders and Correcting Results in Sunquest)	

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	Determine if a patie	ent sample is requi	red	
	If	Then	en	
	Not required	Go to next step		
6	Required	And BBHOLD sample is	Then	
		Available	Receive order (refer to SOP Specimen Acceptability and Order Receipt)	
		Unavailable	Contact clinical care staff and request a specimen	
	Review the requisition for any special attributes not listed on the patient's record in Sunguest (ie: irradiation, volume reduction, pooled platelets only, etc.)			
7	If Then			
	New attributes	Add to the	patient record in Sunquest	
	No new attributes	Process ord	der	

**Processing Cord Blood Orders (CORD)** 

Processing Cord Blood Orders (CORD)			
STEP	ACTION		
Review the requisition for the for the following comments:  • "Patient is <1000gm perform T&S for potential transfusion needs months old"  • free text comment ordering a type and screen		for potential transfusion needs in pt. <4	
1	If either comment is	Then	
l	Present	Receive the order in Sunquest  NOTE: MLS will add an antibody screen (AS) to the cord blood order at the time of testing	
	Not present	Go to next step	
2	<ul> <li>Perform a history check of the mother's medical record to determine if the mother: <ul> <li>Is Rh negative</li> <li>Is Group O</li> <li>Has no blood type on file</li> <li>Has a history of a positive antibody screen, no current antibody screen or no history on file</li> </ul> </li> <li>NOTE: Mother's medical record number should be included on the ORCA requisition or manually entered on downtime requisitions</li> </ul>		
	If		Then
	Any of the conditions are met		Receive order Go to step 4
	None of the conditions are met		Go to next step
3	<ul> <li>Cancel order (refer to SOP Canceling Orders and Correcting Results in Sunquest)</li> <li>Reorder test as a BBHOLD and save sample (refer to SOP Specimen and Unit Segment Management)</li> </ul>		

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Enter order on the Cord Blood Log for every cord blood specimen received to ensure that every patient that delivers at UWMC is evaluated for Rh immune globulin administration

**NOTE:** If a peripheral blood sample (TSCR) is received in place of a CORD sample, the order should be written on the Cord Blood Log

**Neonatal RBC Orders (TNRBC)** 

STEP	ACTION		
	or	egative antibody screen on current admission ntibody screen but the mother has a negative	
	If patient	Then	
	Meets above requirements	Receive the TNRBC order and provide RBCs according to SOP Selection of Red Blood Cell Components for Transfusion	
1	Or  No antibody screen and mother has a positive antibody screen 72 hours prior to delivery or post-delivery	<ul> <li>Receive the TNRBC order</li> <li>Add %XM to the unit</li> <li>Perform an AHG crossmatch on the unit (in-date mother's specimen may be used for crossmatch)</li> <li>Add BBCS comment and list the accession number of sample used for crossmatch and MRN of the mom</li> <li>Refer to SOPs Antibody Identification and Selection of Red Blood Cell Components for Transfusion for additional requirements)</li> </ul>	
	Does not meet nay of the above requirements and a peripheral blood specimen collection is not an option	Call the TSL MD on - call for guidance about specimen options for providing blood component (ie: extending cord blood or mom's specimen, collect new neonatal specimen, ect.)	
2	Process order (refer to SOPs Blood Component Preparation and Preparation of Divided Units for aliquot preparation instructions)		

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**Selecting Test Method** 

STEP	ACTION	
1	<ul> <li>Route specimen for testing based on the following guide:</li> <li>Order priority (Stat vs. Routine): Use method that will meet required TAT – Manual may be faster</li> <li>Staffing and Workload</li> <li>Grossly hemolyzed or lipemic specimen: Processing on Tango may result in invalid results         Short draw specimen: May be QNS on Tango due to dead space requirements for pipetting     </li> </ul>	

**Extending TSCREX Sample Outdate (MLS only)** 

STEP	ACTION		
	Verify the sample was collected within the last 30 days		
1	If collected	Then	
	< 30 days ago	Continue to next step	
	> 30 days ago	Notify caregiver that the patient is not eligible for sample extension and a new T&S sample must be submitted	
2	<ul> <li>Verify the following criteria are met:         <ul> <li>No history of clinically significant antibodies</li> <li>Current antibody screen negative</li> <li>No history of transfusion in last 3 months (review history in Sunquest in addition to patient response to questions)</li> <li>No pregnancy in last 3 months</li> </ul> </li> <li>If criteria are         <ul> <li>Then</li> </ul> </li> <li>Met             <ul> <li>Continue to next step</li> <li>Notify caregiver the patient is not eligible for sample extension and a new T&amp;S sample must be collected</li> </ul> </li> </ul>		
3	Select the TSCREX order in Sunquest BOP		
4	<ul> <li>Update the sample expiration with an additional 3 days (T+3) and perform electronic crossmatch on any requested units</li> <li>Override the QA failure according to SOP: Sunquest: Responding to Quality Assurance Failures</li> </ul>		
5	<save></save>		

## **CALIBRATION:**

NA

## PROCEDURE NOTES AND LIMITATIONS:

• Each accession only allows allocation of 100 blood components. If additional RBC products are required, a duplicate order should be placed with a collection date/time one minute later than the original sample. *Transfer test results from original Accession, credit* 2<sup>nd</sup> ABO/Rh

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and antibody screen and add BBC comment "Duplicate order for allocation purpose see accession XXXXX for original results".

## **REFERENCES:**

Specimen Management, Routing and Tracking User Guide, Misys Laboratory

#### **RELATED DOCUMENTS:**

FORM Cord Blood Log SOP Patient History Check (HXCK) SOP Specimen Acceptability, Specimen and Order Receipt SOP Blood Administrative Data Entry Updates SOP Canceling Orders and Correcting Results in Sunquest SOP Specimen and Unit Segment Management

#### **APPENDIX:**

NA

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UWMC SOP Approval:			
UWMC CLIA Medical Director			
	Mark H. Wener, MD	Date	
Transfusion Service Manager		Date _	
	Nina Sen		
Compliance Analyst		Date	
-	Christine Clark		
Transfusion Service		D .	
Medical Director	Monica Pagano, MD	Date	
	Worlica Fayario, WD		
UWMC Biennial Review:			
		Date	
		Date	

**12-02-19:** Added instruction for use of maternal blood specimen to provide red blood cell components to neonates >4 months old when an antibody screen was not performed on a neonatal specimen