



<b>University of Washington Medical Center</b> <b>1959 NE Pacific Street. Seattle, WA 98195</b> <b>Transfusion Services Laboratory</b> <b>Policies and Procedures Manual</b>	<b>Original Effective Date:</b> <b>03/27/2021</b>	<b>Number:</b> <b>EQ-0014.01</b>
	<b>Revision Effective Date:</b>	
<b>TITLE: Computer and Network Downtime at Northwest Campus</b>		

**PURPOSE:**

To provide guidance for managing transfusion tests and blood product orders during a computer outage at Northwest Campus including EPIC (eHR), Sunquest Laboratory Information System (SQ), BloodTrack/HaemoBank and local network interruptions.

**LOCATION:**

Northwest Transfusion Support Service (TSS)

**PRINCIPLE & CLINICAL SIGNIFICANCE:**

**Principle & Clinical Significance**

Multiple electronic systems and applications are integral to routine patient care. The UWMC Transfusion Service Laboratory must have alternative processes in place to provide blood components when one or more electronic system fails, or downtime is planned.

**POLICIES:**

**Notify Montlake TSL immediately of any unplanned computer outage**

**EPIC – electronic Health Record:** Used by medical provider to place test and blood component order and request issue of blood component.

**EPIC Downtime-Sunquest Online**

- Orders cannot be placed in EPIC
  - Test and blood component orders will be placed using the paper UH3364 **Transfusion Services Test & Blood Product Request Form** and the form sent to the lab
- New patient registration in EPIC does not interface to SQ when offline
- Test results in SQ will interface to EPIC once EPIC is online

**Sunquest Laboratory Information System (SQ):** Used by Montlake TSL and NW TSS for all aspects of service including receive orders, recording test results that interface to EPIC, managing blood inventory, allocating and issuing blood components for transfusion.

**Sunquest Downtime- EPIC may or may not be available**

- Orders cannot be placed or received in SQ
  - Specimens for testing will be received and sent to Montlake TSL using the **Downtime Specimen Receipt Log**
- ML TSL will
  - Montlake TSL (ML TSL) performs a daily backup of Sunquest regarding patient testing, history and blood components
    - Receive orders and perform history checks using the daily backup reports for test and blood component orders

- Perform testing and allocates blood components for STAT orders. Routine orders may not be completed until after SQ is back online
- During Sunquest (SQ) downtime all compatibility testing for red cell components will be performed serologically at ML TSL
  - Immediate spin crossmatch will be performed on all red cell component orders to determine ABO compatibility
  - AHG crossmatch will be performed for patients with antibodies or history of clinically significant antibodies
  - Universal blood components will be released if SQ backup reports are not available to provide type specific compatible blood components
- Send allocated ABO compatible blood components to NW TSS using the ***Downtime Component Transport Log***
- NW campus stock inventory will be utilized for emergency use only
  - HaemoBank may be utilized, if online, to issue the following using the ***Downtime Issue Log***
    - Emergency release of group O uncrossmatched red blood cell components (RBC).
    - RBCs assigned prior to downtime
- All type compatible blood components not allocated prior to downtime will be sent from ML TSL
  - Non-emergent blood component orders not filled prior to downtime will be allocated by Montlake TSL and sent to NW TSS using the ***Downtime Component Transport Log***.
  - NW TSS will document receipt of components on ***Downtime Component Transport Log*** and issue components using the ***Downtime Issue Log***

**BloodTrack Manager/HaemoBank Downtime-Sunquest Online:** A blood storage refrigerator used to store red blood cell components (RBC). When offline, the TSL is unable to allocate RBC stored in the device and uncrossmatched group O RBCs cannot be removed for issue.

- NW TSS will remove all HaemoBank inventory and stored in the backup blood refrigerator
- If the HaemoBank is offline or otherwise unavailable; but Sunquest is online, RBC components will be allocated by Montlake TSL using non HaemoBank workflow. This is the same as standard workflow for plasma and platelet components.
  - Blood components will be allocated by TSL using **NWBB2** location in SQ and a SQ Transfusion Record will print at NW from the same printer as plasma and platelet Transfusion Records.

#### **Network Downtime at Northwest (NW)**

- Communication is interrupted between Montlake TSL and the NW HaemoBank due to a NW communication or Internet problem
- All systems operating through Citrix are down including the HaemoBank, EPIC and Sunquest.
- Orders cannot be placed in SQ at NW
- TSL patient history and testing must be performed manually at ML
- Blood component testing, allocation and issue performed manually at ML
- Blood components will be transferred between ML and NW campus using the ***Downtime Component Transport Log***

<b>TITLE: Computer and Network Downtime at Northwest Campus</b>	<b>Number: EQ-0014.01</b>
---	---------------------------

- Specimens for testing will be received and sent using the ***Downtime Specimen Receipt Log***
- Stock inventory at NW campus will be utilized for emergency issue of components only

**SPECIMEN REQUIREMENTS:**

NA

**REAGENTS/SUPPLIES/EQUIPMENT:**

Reagents:	Supplies:	Equipment:
NA		NA

**QUALITY CONTROL:**

NA

**INSTRUCTIONS:**

**TABLE OF CONTENTS:**

- [EPIC Downtime-Sunquest Online](#)
- [Sunquest Planned Downtime – Inventory Preparation](#)
- [Sunquest Unplanned Downtime](#)
- [BloodTrack Manager/HaemoBank Downtime-Sunquest Online](#)
- [Network Downtime at Northwest \(NW\)](#)
- [Appendix A: Downtime Transfusion Records](#)

**EPIC Downtime -Sunquest Online**

STEP	ACTION	
1	Receive and time stamp manual requisition <i>Transfusion Services Test &amp; Blood Product Request Form</i> (UH3364)	
2	Perform Blood Bank Inquiry in SQ	
	<b>If</b>	<b>Then</b>
	Patient found in SQ	Go to next step
3	Patient not found in SQ	
	Take sample and requisition to NW SPS to register patient in SQ	
	<b>If order is for</b>	<b>Then</b>
Testing	<ul style="list-style-type: none"> <li>• Enter and receive the order in SQ per SOP <b><i>Transfusion Service Specimen and Test Order Receipt at NW Campus</i></b></li> <li>• Batch specimens and send to ML TSL per SOP <b><i>Batching and Transport of Transfusion Service Specimens</i></b></li> </ul>	
Blood Component	<ul style="list-style-type: none"> <li>• Fax blood component orders to Montlake TSL</li> <li>• Call Montlake TSL to verify order was received</li> </ul>	

**Sunquest Planned Downtime – Inventory Preparation**

STEP	ACTION																																								
1	Prior to planned downtime event perform the following in the preceding hour <ul style="list-style-type: none"> <li>• Thaw, perform blood component processing and relabel any plasma or cryoprecipitate for any pending transfusion orders</li> <li>• Allocate thawed component to patient and attach Transfusion Records for any pending transfusion orders</li> </ul>																																								
2	Print inventory list of blood components at NW <ul style="list-style-type: none"> <li>• Log into SmarTerm and enter the following at the specified prompt</li> </ul> <table border="1" data-bbox="318 573 1414 1740"> <thead> <tr> <th data-bbox="318 573 805 621">AT PROMPT</th> <th data-bbox="805 573 1414 621">ENTER</th> </tr> </thead> <tbody> <tr> <td data-bbox="318 621 805 695">FUNCTION</td> <td data-bbox="805 621 1414 695"> <ul style="list-style-type: none"> <li>• BBR</li> <li>• Press &lt;ENTER&gt;</li> </ul> </td> </tr> <tr> <td data-bbox="318 695 805 768">PRINTER</td> <td data-bbox="805 695 1414 768"> <ul style="list-style-type: none"> <li>• SQ Printer #</li> <li>• Press &lt;ENTER&gt;</li> </ul> </td> </tr> <tr> <td data-bbox="318 768 805 821">Use Host &lt;A&gt;</td> <td data-bbox="805 768 1414 821"> <ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul> </td> </tr> <tr> <td data-bbox="318 821 805 894">SELECT OPTION?</td> <td data-bbox="805 821 1414 894"> <ul style="list-style-type: none"> <li>• 2</li> <li>• Press &lt;ENTER&gt;</li> </ul> </td> </tr> <tr> <td data-bbox="318 894 805 957">HOSPITAL ID</td> <td data-bbox="805 894 1414 957"> <ul style="list-style-type: none"> <li>• U</li> <li>• Press &lt;ENTER&gt;</li> </ul> </td> </tr> <tr> <td data-bbox="318 957 805 1010">HOSPITAL ID</td> <td data-bbox="805 957 1414 1010"> <ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul> </td> </tr> <tr> <td data-bbox="318 1010 805 1083">AREA</td> <td data-bbox="805 1010 1414 1083"> <ul style="list-style-type: none"> <li>• NWBB</li> <li>• Press &lt;ENTER&gt;</li> </ul> </td> </tr> <tr> <td data-bbox="318 1083 805 1136">AREA</td> <td data-bbox="805 1083 1414 1136"> <ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul> </td> </tr> <tr> <td data-bbox="318 1136 805 1199">HOSPITAL SELECTED</td> <td data-bbox="805 1136 1414 1199"> <ul style="list-style-type: none"> <li>• A</li> <li>• Press &lt;ENTER&gt;</li> </ul> </td> </tr> <tr> <td data-bbox="318 1199 805 1251">EARLIEST EXPIRATION DATE</td> <td data-bbox="805 1199 1414 1251"> <ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul> </td> </tr> <tr> <td data-bbox="318 1251 805 1304">EARLIEST EXPIRATION TIME</td> <td data-bbox="805 1251 1414 1304"> <ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul> </td> </tr> <tr> <td data-bbox="318 1304 805 1356">COMPONENT TYPE/GROUP</td> <td data-bbox="805 1304 1414 1356"> <ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul> </td> </tr> <tr> <td data-bbox="318 1356 805 1419">STATUS</td> <td data-bbox="805 1356 1414 1419"> <ul style="list-style-type: none"> <li>• INV</li> <li>• Press &lt;ENTER&gt;</li> </ul> </td> </tr> <tr> <td data-bbox="318 1419 805 1472">STATUS</td> <td data-bbox="805 1419 1414 1472"> <ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul> </td> </tr> <tr> <td data-bbox="318 1472 805 1524">ABO-RH</td> <td data-bbox="805 1472 1414 1524"> <ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt; to select default</li> </ul> </td> </tr> <tr> <td data-bbox="318 1524 805 1577">PRINT DETAIL? Y/N</td> <td data-bbox="805 1524 1414 1577"> <ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt; to select default</li> </ul> </td> </tr> <tr> <td data-bbox="318 1577 805 1629">UNITS WITH PRODUCT TESTING</td> <td data-bbox="805 1577 1414 1629"> <ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt; to select default</li> </ul> </td> </tr> <tr> <td data-bbox="318 1629 805 1682">ACTIVE UNITS ONLY</td> <td data-bbox="805 1629 1414 1682"> <ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt; to select default</li> </ul> </td> </tr> <tr> <td data-bbox="318 1682 805 1740">ACCEPT, MODIFY OR REJECT</td> <td data-bbox="805 1682 1414 1740"> <ul style="list-style-type: none"> <li>• A</li> <li>• Press &lt;ENTER&gt;</li> </ul> </td> </tr> </tbody> </table>	AT PROMPT	ENTER	FUNCTION	<ul style="list-style-type: none"> <li>• BBR</li> <li>• Press &lt;ENTER&gt;</li> </ul>	PRINTER	<ul style="list-style-type: none"> <li>• SQ Printer #</li> <li>• Press &lt;ENTER&gt;</li> </ul>	Use Host <A>	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul>	SELECT OPTION?	<ul style="list-style-type: none"> <li>• 2</li> <li>• Press &lt;ENTER&gt;</li> </ul>	HOSPITAL ID	<ul style="list-style-type: none"> <li>• U</li> <li>• Press &lt;ENTER&gt;</li> </ul>	HOSPITAL ID	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul>	AREA	<ul style="list-style-type: none"> <li>• NWBB</li> <li>• Press &lt;ENTER&gt;</li> </ul>	AREA	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul>	HOSPITAL SELECTED	<ul style="list-style-type: none"> <li>• A</li> <li>• Press &lt;ENTER&gt;</li> </ul>	EARLIEST EXPIRATION DATE	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul>	EARLIEST EXPIRATION TIME	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul>	COMPONENT TYPE/GROUP	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul>	STATUS	<ul style="list-style-type: none"> <li>• INV</li> <li>• Press &lt;ENTER&gt;</li> </ul>	STATUS	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul>	ABO-RH	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt; to select default</li> </ul>	PRINT DETAIL? Y/N	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt; to select default</li> </ul>	UNITS WITH PRODUCT TESTING	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt; to select default</li> </ul>	ACTIVE UNITS ONLY	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt; to select default</li> </ul>	ACCEPT, MODIFY OR REJECT	<ul style="list-style-type: none"> <li>• A</li> <li>• Press &lt;ENTER&gt;</li> </ul>
AT PROMPT	ENTER																																								
FUNCTION	<ul style="list-style-type: none"> <li>• BBR</li> <li>• Press &lt;ENTER&gt;</li> </ul>																																								
PRINTER	<ul style="list-style-type: none"> <li>• SQ Printer #</li> <li>• Press &lt;ENTER&gt;</li> </ul>																																								
Use Host <A>	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul>																																								
SELECT OPTION?	<ul style="list-style-type: none"> <li>• 2</li> <li>• Press &lt;ENTER&gt;</li> </ul>																																								
HOSPITAL ID	<ul style="list-style-type: none"> <li>• U</li> <li>• Press &lt;ENTER&gt;</li> </ul>																																								
HOSPITAL ID	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul>																																								
AREA	<ul style="list-style-type: none"> <li>• NWBB</li> <li>• Press &lt;ENTER&gt;</li> </ul>																																								
AREA	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul>																																								
HOSPITAL SELECTED	<ul style="list-style-type: none"> <li>• A</li> <li>• Press &lt;ENTER&gt;</li> </ul>																																								
EARLIEST EXPIRATION DATE	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul>																																								
EARLIEST EXPIRATION TIME	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul>																																								
COMPONENT TYPE/GROUP	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul>																																								
STATUS	<ul style="list-style-type: none"> <li>• INV</li> <li>• Press &lt;ENTER&gt;</li> </ul>																																								
STATUS	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt;</li> </ul>																																								
ABO-RH	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt; to select default</li> </ul>																																								
PRINT DETAIL? Y/N	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt; to select default</li> </ul>																																								
UNITS WITH PRODUCT TESTING	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt; to select default</li> </ul>																																								
ACTIVE UNITS ONLY	<ul style="list-style-type: none"> <li>• Press &lt;ENTER&gt; to select default</li> </ul>																																								
ACCEPT, MODIFY OR REJECT	<ul style="list-style-type: none"> <li>• A</li> <li>• Press &lt;ENTER&gt;</li> </ul>																																								
3	Go to section <a href="#">Sunquest Unplanned Downtime</a>																																								

**Sunquest Unplanned Downtime**

STEP	ACTION												
1	Call Montlake TSL to communicate SQ is offline at NW Lab												
2	<p>Receive and timestamp order requisition in lab</p> <table border="1"> <thead> <tr> <th data-bbox="318 426 659 474">If</th> <th data-bbox="659 426 1373 474">Then</th> </tr> </thead> <tbody> <tr> <td data-bbox="318 474 659 1409">Test order</td> <td data-bbox="659 474 1373 1409"> <ul style="list-style-type: none"> <li>Verify specimen acceptability – refer to SOP <b>Transfusion Service Specimen and Test Order Receipt at NW Campus</b></li> </ul> <p><b>NOTE:</b> You will not be able to perform a history check</p> <table border="1"> <thead> <tr> <th data-bbox="724 716 967 764">If</th> <th data-bbox="967 716 1357 764">Then</th> </tr> </thead> <tbody> <tr> <td data-bbox="724 764 967 999">Labeled with Epic ADT label</td> <td data-bbox="967 764 1357 999">Without covering patient ID, label the specimen with a SQ Downtime Accession Label (“N” labels with barcode) and place a corresponding label on the requisition.</td> </tr> <tr> <td data-bbox="724 999 967 1068">Labeled with Sunquest label</td> <td data-bbox="967 999 1357 1068">Do not relabel</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>Document receipt of the specimen on the <b>Downtime Specimen Receipt Log</b></li> <li>Send specimen and requisition along with a copy of the <b>Downtime Specimen Receipt Log</b> to ML TSL with the courier.</li> </ul> <p><b>NOTE:</b> All specimens sent to Montlake TSL must be recorded on and accompanied with a <b>Downtime Specimen Receipt Log</b></p> </td> </tr> <tr> <td data-bbox="318 1409 659 1516">Blood component order</td> <td data-bbox="659 1409 1373 1516"> <ul style="list-style-type: none"> <li>Fax all blood component orders to Montlake TSL</li> <li>Call Montlake TSL to verify order was received</li> <li>Go to the next step</li> </ul> </td> </tr> </tbody> </table>	If	Then	Test order	<ul style="list-style-type: none"> <li>Verify specimen acceptability – refer to SOP <b>Transfusion Service Specimen and Test Order Receipt at NW Campus</b></li> </ul> <p><b>NOTE:</b> You will not be able to perform a history check</p> <table border="1"> <thead> <tr> <th data-bbox="724 716 967 764">If</th> <th data-bbox="967 716 1357 764">Then</th> </tr> </thead> <tbody> <tr> <td data-bbox="724 764 967 999">Labeled with Epic ADT label</td> <td data-bbox="967 764 1357 999">Without covering patient ID, label the specimen with a SQ Downtime Accession Label (“N” labels with barcode) and place a corresponding label on the requisition.</td> </tr> <tr> <td data-bbox="724 999 967 1068">Labeled with Sunquest label</td> <td data-bbox="967 999 1357 1068">Do not relabel</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>Document receipt of the specimen on the <b>Downtime Specimen Receipt Log</b></li> <li>Send specimen and requisition along with a copy of the <b>Downtime Specimen Receipt Log</b> to ML TSL with the courier.</li> </ul> <p><b>NOTE:</b> All specimens sent to Montlake TSL must be recorded on and accompanied with a <b>Downtime Specimen Receipt Log</b></p>	If	Then	Labeled with Epic ADT label	Without covering patient ID, label the specimen with a SQ Downtime Accession Label (“N” labels with barcode) and place a corresponding label on the requisition.	Labeled with Sunquest label	Do not relabel	Blood component order	<ul style="list-style-type: none"> <li>Fax all blood component orders to Montlake TSL</li> <li>Call Montlake TSL to verify order was received</li> <li>Go to the next step</li> </ul>
If	Then												
Test order	<ul style="list-style-type: none"> <li>Verify specimen acceptability – refer to SOP <b>Transfusion Service Specimen and Test Order Receipt at NW Campus</b></li> </ul> <p><b>NOTE:</b> You will not be able to perform a history check</p> <table border="1"> <thead> <tr> <th data-bbox="724 716 967 764">If</th> <th data-bbox="967 716 1357 764">Then</th> </tr> </thead> <tbody> <tr> <td data-bbox="724 764 967 999">Labeled with Epic ADT label</td> <td data-bbox="967 764 1357 999">Without covering patient ID, label the specimen with a SQ Downtime Accession Label (“N” labels with barcode) and place a corresponding label on the requisition.</td> </tr> <tr> <td data-bbox="724 999 967 1068">Labeled with Sunquest label</td> <td data-bbox="967 999 1357 1068">Do not relabel</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>Document receipt of the specimen on the <b>Downtime Specimen Receipt Log</b></li> <li>Send specimen and requisition along with a copy of the <b>Downtime Specimen Receipt Log</b> to ML TSL with the courier.</li> </ul> <p><b>NOTE:</b> All specimens sent to Montlake TSL must be recorded on and accompanied with a <b>Downtime Specimen Receipt Log</b></p>	If	Then	Labeled with Epic ADT label	Without covering patient ID, label the specimen with a SQ Downtime Accession Label (“N” labels with barcode) and place a corresponding label on the requisition.	Labeled with Sunquest label	Do not relabel						
If	Then												
Labeled with Epic ADT label	Without covering patient ID, label the specimen with a SQ Downtime Accession Label (“N” labels with barcode) and place a corresponding label on the requisition.												
Labeled with Sunquest label	Do not relabel												
Blood component order	<ul style="list-style-type: none"> <li>Fax all blood component orders to Montlake TSL</li> <li>Call Montlake TSL to verify order was received</li> <li>Go to the next step</li> </ul>												
3	<p>Filling blood orders</p> <table border="1"> <thead> <tr> <th data-bbox="318 1587 634 1635">If order priority is</th> <th data-bbox="634 1587 1412 1635">Then</th> </tr> </thead> <tbody> <tr> <td data-bbox="318 1635 634 1875">Routine or STAT Priority</td> <td data-bbox="634 1635 1412 1875"> <ul style="list-style-type: none"> <li>Receive allocated blood components from MT TSL and document receipt on the <b>Downtime Component Transfer Log</b></li> <li>Store allocated components in non-HaemoBank storage devices.</li> <li>Communicate product availability to patient units</li> <li>Go to step 5 to issue platelet</li> </ul> </td> </tr> </tbody> </table>	If order priority is	Then	Routine or STAT Priority	<ul style="list-style-type: none"> <li>Receive allocated blood components from MT TSL and document receipt on the <b>Downtime Component Transfer Log</b></li> <li>Store allocated components in non-HaemoBank storage devices.</li> <li>Communicate product availability to patient units</li> <li>Go to step 5 to issue platelet</li> </ul>								
If order priority is	Then												
Routine or STAT Priority	<ul style="list-style-type: none"> <li>Receive allocated blood components from MT TSL and document receipt on the <b>Downtime Component Transfer Log</b></li> <li>Store allocated components in non-HaemoBank storage devices.</li> <li>Communicate product availability to patient units</li> <li>Go to step 5 to issue platelet</li> </ul>												

STEP	ACTION	
	<p><b>If order priority is</b> Emergency Priority (including MTP or OB Hemorrhage)</p>	<p><b>Then</b></p> <p><b><u>Red Blood Cells:</u></b></p> <ul style="list-style-type: none"> <li>○ Prepare appropriate uncrossmatched red cells for emergency release per SOP: <b>Massive Transfusion Protocol and Emergency Release of Blood Components at Northwest Campus.</b></li> <li>○ Manually complete <b>Emergency Release of Uncrossmatched Blood Form (U3934)</b>. Use unit stickers if possible.</li> <li>○ Go to next step</li> </ul> <p><b><u>Plasma and Cryoprecipitate:</u></b></p> <ul style="list-style-type: none"> <li>○ Thaw frozen AB plasma and cryoprecipitate per SOP <b>Ordering and Processing Plasma and Cryoprecipitate.</b></li> <li>○ Label thawed AB plasma and cryoprecipitate units using the stand-alone HemaTrax PC/printer per SOP: <b>Downtime Blood Component Labeling.</b></li> <li>○ Go to next step</li> </ul> <p><b><u>Platelets:</u></b></p> <ul style="list-style-type: none"> <li>○ Select platelet</li> <li>○ Go to next step</li> </ul>
4	<ul style="list-style-type: none"> <li>• Manually document the following on a SQ Transfusion Record (UH3363) for each blood component– refer to Appendix A               <ul style="list-style-type: none"> <li>○ Patient Name</li> <li>○ Patient MRN</li> <li>○ Current Date under the patient information section</li> <li>○ Donor ABO/Rh</li> <li>○ Donor Unit # (including container or division #)</li> <li>○ Component (type of component including attributes such as irradiated)</li> <li>○ Unit expiration (date and time component expires)</li> <li>○ Volume in mL</li> </ul> </li> <li>• Initial the bottom right had corner of the Transfusion Record form</li> <li>• Have a second tech review documentation for accuracy and then initial</li> <li>• Make a photocopy of the transfusion report to maintain with the request for blood components</li> <li>• Attach record to blood component</li> </ul>	
5	<p>Issuing blood components</p> <ul style="list-style-type: none"> <li>• Handwrite patient name &amp; MRN on the <b><i>Downtime Issue Log</i></b></li> <li>• Issue all blood components using the <b><i>Downtime Issue Log</i></b></li> <li>• Fax a copy of the log to Montlake TSL when completed.</li> </ul> <p><b>NOTE:</b> This applies to emergency release and allocated blood components</p>	
6	<p>Ordering stock blood components</p> <ul style="list-style-type: none"> <li>• Call Montlake TSL and request needed components – specify if for a bleeding emergency in progress</li> </ul>	

STEP	ACTION						
7	<p>Receiving Blood Components from ML TSL</p> <ul style="list-style-type: none"> <li>Document receipt of blood components (allocated or stock) on the <b><i>Downtime Component Transport Log</i></b> sent with the components</li> <li>Fax a copy of the completed form to UWMC TSL and return the hardcopy with the next available courier</li> <li>Store allocated and stock blood components in the backup refrigerator in the following manner: <ul style="list-style-type: none"> <li>Allocated components separated from non-allocated components</li> <li>Components separated by ABO/Rh</li> </ul> </li> </ul>						
8	<p>Blood Component Returns</p> <ul style="list-style-type: none"> <li>Document return of issued components using the <b><i>Downtime Issue Log and QI Form per SOP Returning Issued Blood Components to Inventory at Northwest Campus</i></b></li> <li>Fax a copy of both forms to ML TSL</li> </ul> <table border="1"> <thead> <tr> <th>If component is</th> <th>Then</th> </tr> </thead> <tbody> <tr> <td>Acceptable for reissue</td> <td>Place in appropriate storage device</td> </tr> <tr> <td>Unacceptable for reissue</td> <td>Quarantine and return to Montlake TSL per SOP <b><i>Quarantine and Final Disposition of Blood Components at Northwest Campus</i></b></td> </tr> </tbody> </table>	If component is	Then	Acceptable for reissue	Place in appropriate storage device	Unacceptable for reissue	Quarantine and return to Montlake TSL per SOP <b><i>Quarantine and Final Disposition of Blood Components at Northwest Campus</i></b>
If component is	Then						
Acceptable for reissue	Place in appropriate storage device						
Unacceptable for reissue	Quarantine and return to Montlake TSL per SOP <b><i>Quarantine and Final Disposition of Blood Components at Northwest Campus</i></b>						

**BloodTrack Manager/HaemoBank Downtime-Sunquest Online**

STEP	ACTION
1	Call Montlake TSL and request release of allocated inventory for components stored in the HaemoBank
2	Remove all inventory from HaemoBank and place in the backup refrigerator – refer to SOP <b><i>HaemoBank Operation and Troubleshooting</i></b> section Emergency Access for Evacuation of blood Components
3	<p>Place inventory into the backup refrigerator in the following manner:</p> <ul style="list-style-type: none"> <li>Allocated components separated from non-allocated components</li> <li>Components separated by ABO/Rh</li> </ul> <p><b>NOTE:</b> NW inventory can be viewed in SQ inventory location <b>NWBB2</b></p>
4	<p>Montlake TSL will allocate blood components via SQ and a SQ <b><i>Transfusion Record (UH3363)</i></b> will print at NW Lab the same as when plasma or platelets are allocated</p> <p><b>NOTE:</b> Patient and product information will print on the Transfusion Record</p>
5	Retrieve the Transfusion Record (UH3363) from the SQ printer and the allocated RBC from the backup refrigerator
6	Attach it to the allocated blood component - refer to SOP <b><i>Attaching Sunquest Transfusion Record to Blood Components at Northwest Campus</i></b>
7	Issue blood component in SQ – refer to SOP <b><i>Issuing Blood Components at Northwest Campus</i></b>

<b>TITLE: Computer and Network Downtime at Northwest Campus</b>	<b>Number: EQ-0014.01</b>
---	---------------------------

**Network Downtime at Northwest (NW)**

<b>STEP</b>	<b>ACTION</b>
1	Contact NW/UW Medicine ITS Helpdesk @ 206-543-7012 and submit an urgent high-level ticket
2	Call Montlake TSL to communicate the outage and to release allocated inventory stored in the Haemobank and to let you know as soon as release is complete  <b>NOTE:</b> If necessary TSL will send emergency uncrossmatched O blood via courier to NW campus
3	Notify the following persons “the lab is in full computer downtime and urgent blood needs will be filled with uncrossmatched RBC and universal components. All other blood orders will be filled and sent from Montlake TSL” <ul style="list-style-type: none"> <li>• Nursing supervisors in the Emergency Department, Childbirth Center, Operating Room, and ICU/CCU</li> <li>• NW Laboratory Medical Director and Operations Director</li> </ul>
4	Remove a minimum, depending on need, of 4 group O positive and 4 group O negative red blood cell from the HaemoBank and place in the backup refrigerator – refer to SOP <b>HaemoBank Operation and Troubleshooting</b> section Emergency Access for Evacuation of blood Components  <b>NOTE:</b> Available group O inventory in the backup refrigerator should be refreshed based on clinical need
5	Place inventory into the backup refrigerator in the following manner: <ul style="list-style-type: none"> <li>• Allocated components separated from non-allocated components</li> </ul> Components separated by ABO/Rh
6	Go to section Sunquest Unplanned Downtime

**CALCULATIONS/INTERPRETATIONS/RESULTS REPORTING/NORMAL**

NA

**VALUES/CRITICAL VALUES:**

NA

**CALIBRATION:**

NA

**NOTES AND LIMITATIONS:**

**REFERENCES:**

Standards for Blood Banks and Transfusion Services, American Association of Blood Banks, Bethesda, MD. Current Edition.



**RELATED DOCUMENTS:**

FORM *Downtime Issue Log*

FORM *Downtime Component Transport Log*

FORM *Downtime Specimen Receipt Log*

FORM *Downtime Blood Component Prep Log*

FORM *UH3363 Transfusion Record*

FORM *U3934 Emergency Release of Uncrossmatched Blood*

FORM *Blood Product Release Form*

SOP *Transfusion Service Specimen and Test Order Receipt at NW Campus*

SOP *Attaching Sunquest Transfusion Record to Blood Components at Northwest Campus*

SOP *Issuing Blood Components at Northwest Campus*

SOP *Returning Issued Blood Components to Inventory at Northwest Campus*

SOP *Quarantine and Final Disposition of Blood Components at Northwest Campus*

SOP *Massive Transfusion Protocol and Emergency Release of Blood Components at Northwest Campus*

TRAINING

**TITLE: Computer and Network Downtime at Northwest Campus**

**Number:  
EQ-0014.01**

**UWMC SOP Approval:**

**UWMC CLIA  
Medical Director**

Mark H. Wener, MD Date

**Transfusion  
Service Manager**

Nina Sen Date

**Compliance  
Analyst**

Christine Clark Date

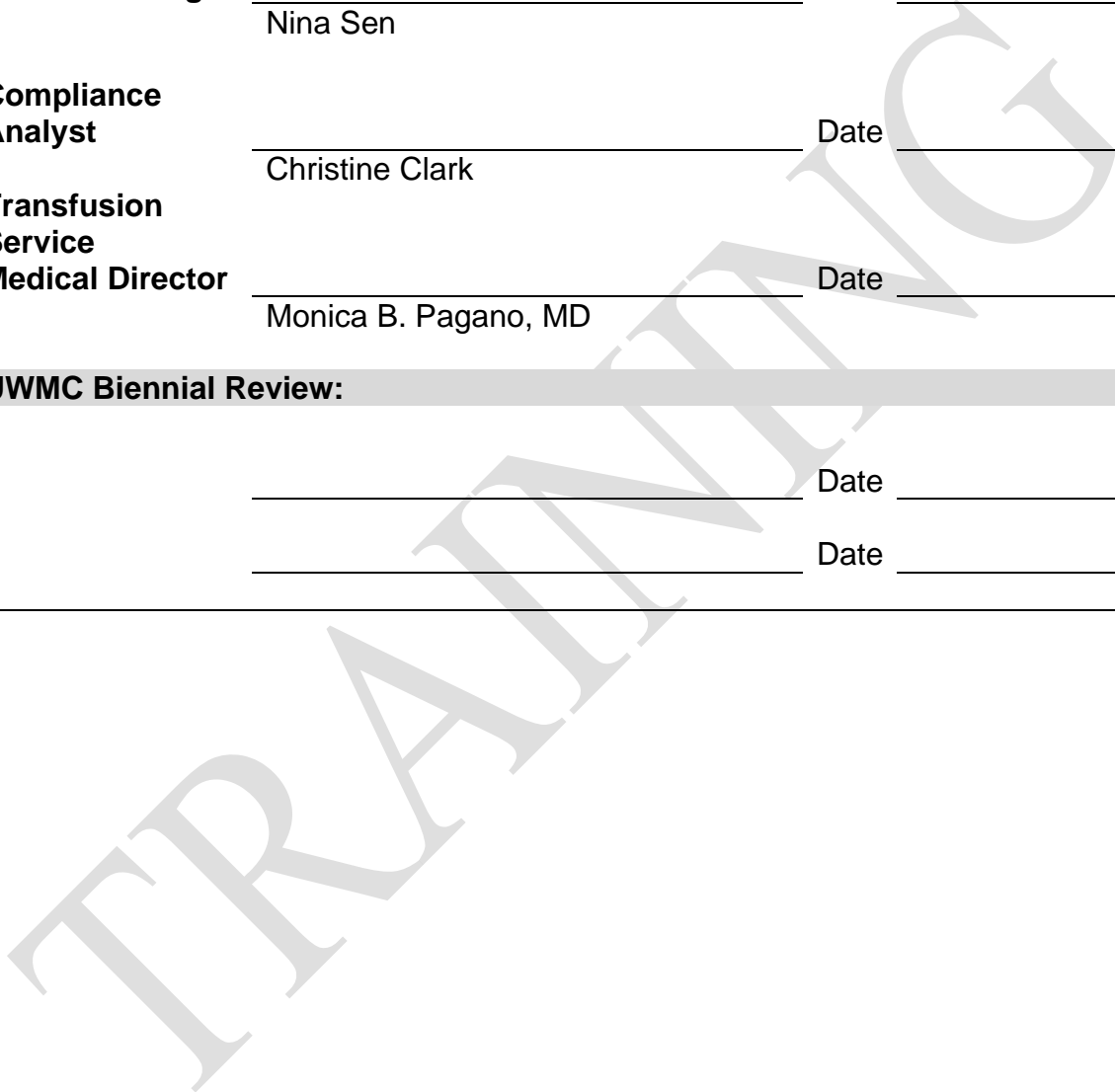
**Transfusion  
Service  
Medical Director**

Monica B. Pagano, MD Date

**UWMC Biennial Review:**

Date

Date



**APPENDIX:**  
**Appendix A: Downtime Transfusion Records (Printed from SunQuest)**

## UW MEDICINE TRANSFUSION RECORD

<b>NAME:</b> ZZZ test, D1		<b>MRN:</b> U1234567	
Patient Information		Donor Information	
<b>Patient ABO/Rh</b>		<b>Donor ABO/Rh</b>	0-NEGATIVE
Antibody Screen		Donor Unit#	W1416 21 081041
Location		Component	RBC IL                      DIV 00
Physician		Crossmatch	Exp
Date	02/16/2021	Unit Expiration	03/12/2021    2359
Accession #		# of Units in Pool	
Comments		Volume	350
		Unit Antigens	

**Bedside Verification**

**Before administering the unit, verify in the patient's presence:**

- Patient's name & medical record number are identical on the unit compatibility label, wrist band(s), and transfusion record.
- Donor ABO/Rh & the donor unit number on the transfusion record, unit compatibility label and donor unit face label are identical.
- Patient ABO/Rh, interpretation of compatibility testing (if performed), and special requirements (if applicable) are verified.
- Unit is normal in appearance & not expired.

Date		Time	
Transfusionist			
Witness			

**IF A TRANSFUSION REACTION IS SUSPECTED**

- STOP THE TRANSFUSION IMMEDIATELY and call the physician and the Transfusion Service Laboratory**
- Refer to the Nursing Blood Administration Policy
- Complete the Report of Suspected Transfusion Reaction Form
- Draw a 6 mL Pink or Purple top EDTA blood sample from the patient (if required)
- Send the completed Suspected Transfusion Reaction form, blood sample (if required), blood bag with attached tubing and remaining contents (remove needle), and a copy of the Transfusion Record to the Transfusion Service Laboratory as soon as possible.

**UNIT COMPATIBILITY LABEL**

NAME:	
MED REC#	
ABO/RH:	DIV 00
CROSSMATCH:	DONOR UNIT#: 0-NEGATIVE
DATE: 02/16/2021	Unit EXP: W1416 21 081041
	03/12/2021 2359

*Attach patient label here  
**ONLY if there is no patient name or MRN in the top line above***

**UW Medicine Center Transfusion Service Laboratory  
Harborview Medical Center Transfusion Service Laboratory  
Seattle, Washington**

**TRANSFUSION RECORD**



\*U3363\*

UH3363 REV JAN 21

**Downtime Transfusion Record (Handwritten)**

## UW MEDICINE TRANSFUSION RECORD

**NAME:** ZZZTEST, DI      **MRN:** U1234567

Patient Information		Donor Information	
<b>Patient ABO/Rh</b>		<b>Donor ABO/Rh</b>	AB Positive
Antibody Screen		Donor Unit#	W1416 21 2347 Part B
Location		Component	Thawed Plasma
Physician		Crossmatch	
Date	2/18/2021	Unit Expiration	2/20/2021 @ 2359
Accession #		# of Units in Pool	
Comments		Volume	257 mL
		Unit Antigens	

**Bedside Verification**

**Before administering the unit, verify in the patient's presence:**

- Patient's name & medical record number are identical on the unit compatibility label, wrist band(s), and transfusion record.
- Donor ABO/Rh & the donor unit number on the transfusion record, unit compatibility label and donor unit face label are identical.
- Patient ABO/Rh, interpretation of compatibility testing (if performed), and special requirements (if applicable) are verified.
- Unit is normal in appearance & not expired.

Date		Time	
Transfusionist			
Witness			

**IF A TRANSFUSION REACTION IS SUSPECTED**

- STOP THE TRANSFUSION IMMEDIATELY** and call the physician and the Transfusion Service Laboratory
- Refer to the Nursing Blood Administration Policy
- Complete the Report of Suspected Transfusion Reaction Form
- Draw a 6mL Pink top EDTA blood sample from the patient
- Send the completed Suspected Transfusion Reaction form, blood sample, blood bag with attached tubing and remaining contents (remove needle), and the Transfusion Record to the Transfusion Service as soon as possible.

**UNIT COMPATIBILITY LABEL**

NAME:	
MED REC#	
ABO/RH:	DONOR ABO/RH:
CROSSMATCH:	DONOR UNIT#:
DATE:	UNIT EXP:

*Attach patient label here ONLY if there is no patient name or MRN in the top line above*

MM 4586  
JB 6360