**Purpose:**

To describe the Harborview Medical Center (HMC) Transfusion Services Laboratory (TSL) support of Airlift Northwest (ALNW) transfusion needs.

**Policy:**

HMC TSL will be responsible for the following processes;

* Support ALNW with universal blood products for use on patients during transportation to HMC or another hospital
* Stock and maintain the Credo Coolers. Unopened blood coolers will be rotated weekly. Opened coolers will be replaced as soon as possible
* Perform validations on credo coolers and temperature loggers
* Ensure attached paperwork is complete per process listed below
* Audit trail for units transfused by ALNW will be completed in Sunquest (SQ)
* Provide ALNW with any recall and lookback notifications on units given by ALNW
* Document any reported transfusion reactions in SQ and notify TSL Medical Director

Airlift Northwest will be responsible for the following processes;

* Train ALNW staff who will be using the Credo Cooler and administer blood
* Maintain annual competency requirements on ALNW staff
* Maintain and store the cooler at appropriate temperature
* Keep the contents of the cooler closed at all times until ready to transfuse
* Return cooler to HMC TSL when cooler has been opened
* Notify TSL when units have been transfused and provide relevant patient information and flight number information to maintain audit trail
* Follow up with any Recall and Lookback that may occur as a result of the units that have been transfused. ALNW Medical Director will be responsible for notifying patient as appropriate.
* Follow up with any transfusion reaction that may occur following transfusion with ALNW Medical Director

**Procedure:**

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| **Step** | **Action** | **Related Documents** |
| **Overview** |
| 1 | TSL prepares and delivers a Credo Cooler with 2 RBCs and 2 liquid plasma. *Five day plasma may be substituted due to inventory limitations.* | Table A |
| 2 | Airlift Northwest includes the Credo Cooler in their response based on ALNW policy and procedure.  |  |
| 3 | Upon return to Airlift Northwest facility or patient delivery to HMC ED, TSL is notified to send a replacement Credo Cooler. |  |
| **Step** | **Action** | **Related Documents** |
| **Overview (continued)** |
| 4 | TSL assesses returned cooler inventory via a data logger for return to inventory or quarantine/discard. Transfused unit audit trails are recorded in LIS. | Credo Cooler Log |
| 5 | Cooler remains refrigerated at ALNW.* Every 7 days or product has 2 days remaining before expiration; the Credo Cooler is exchanged for a new cooler.
* Credo Cooler is validated for 7 days continuous refrigerated storage if unopened.
* Credo Cooler is validated for 24 hours outside of refrigerated storage.
 |  |
| 6 | Credo Coolers removed from refrigerated storage are exchanged as soon as possible. |  |
| 7 | Issues related to ALNW will be directed to a TSL Lead or Manager. ALNW will provide a contact person to aid in problem resolution. |  |
| 8 | ALNW chart is on paper and is submitted to HMC ED upon arrival.  |  |
| 9 | Transfusion Reactions occurring inflight will be communicated to TSL upon arrival at HMC. Investigation will be performed per current SOPs. | Transfusion Reaction Investigation |

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| **Credo Cooler Inventory Management** |
| 1 | Select and prepare blood components per SOP.* All blood products must have different unit #s. Do not place products from same donor in one cooler.
 | Using the Credo Series 4 EMT Coolers |
| 2 | Prepare replacement cooler every 7 days **or**:* Cooler that has been removed for patient transport must be replaced
* Cooler that has been opened must be replaced
* Cooler with five day plasma will be replaced 2 days prior to shortest dated product in cooler
 |
| 3 | Transport to ALNW site via * 1st choice: ALNW Courier once a week during dayshift
* 2nd choice: With ALNW team after delivering patient with Credo Cooler to HMC ED, if time allows.
	+ TSL requires 30 minutes to prepare Credo Cooler
 |  |
| 4 | Perform return. | Using the Credo Series 4 EMT Coolers |

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| **Processing Returned Blood Products** |
| 1 | Process returned RBCs and plasma per SOP | Using the Credo Series 4 EMT CoolersSQ Blood Status UpdateSQ Blood Location |
| 2 | Complete audit trail in SQ for transfused blood products:* Admitted to HMC: current SOPs
* **Not** Admitted to HMC: See Table B. Get flight # from ALNW personnel and document on Credo Cooler Log
 | SQ Order EntrySQ Blood Order Processing |
| 3 | Complete Blood Order Processing:* Process the TXM and/or TFFP order(s) per SOP
	+ If patient is not received at HMC or a sample cannot be drawn, the RBCs may be issued using the ER battery
* Transfused units do not need to be moved back to the “H” location in order to allocate and issue in SQ BOP.

Perform Blood Product Issue:* Issue Date/Time: written on card in TIME OUT or provided by ALNW
* Issued to: ALNW
* Issue Comments: none required

Complete paperwork:* Send post Transfusion Record to HIM.
* Send original transfusion record to HIM with patient identifier
* Staple unit cards to Trauma/MTP paperwork and/or Credo Cooler Log.

*NOTE: ALNW has a separate transfusion record. ALNW will return all Transfusion Records to TSL.** Discard unit segments from the Blood Location Rack.
 | SQ Blood Order Processing |

**Table A: Credo Cooler Quantities**

|  |  |  |
| --- | --- | --- |
|  **Quantity** | **Product**  | **ABO/Rh** |
| 2  | RBC | ONEG |
| 2 | Plasma | Low titer group A or group AB |

**Table B: Creating ALNW Patient Record in Sunquest when Patient not admitted to HMC**

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| **Creating ALNW Patient Record in Sunquest**  |
| **Step** | **Action:** |
| 1 | Log into Sunquest.* Determine patient has not been admitted to HMC utilizing Blood Bank Inquiry.
* Do not create a new patient until potential existing patients have been ruled out.
 |
| 2 | Perform Order Entry * HID begins with **ALNW-**
* Click **SEARCH;**
* Click **CREATE;** Pop-up window - note a digit is added to the **ALNW-:** this is the HID number
* Patient Demographics will auto fill:
	+ Last Name: **UNREGISTERED**
	+ First Name: **AIRLIFT**
	+ Middle Name: not used
	+ Date of Birth: 00/00/0000
	+ Gender: UNKNOWN
* Billing information will auto fill:
	+ Account #: 0
	+ Event Type: OST = OS No Test/No Bill
	+ Event Status: Active
	+ Start Date: current date
* **SAVE**
* Using **ALNW Unit Card** or other source of transfusion information:
	+ Collection Date: Date from card
	+ Collection Time: Time from card or “U” (unknown)
	+ Received Date/Time: written on card in TIME OUT or provided by ALNW
* Diagnosis: NDX
* Battery(ies):
	+ RBCs: **ER**
	+ Plasma: **TFFP**
* Attach Accession sticker to back of appropriate Unit Card(s) and/or paperwork
* Staple Unit Card to original and post Transfusion Records.
* Store in Trauma Notebook.
* Update the Blood Administrative Data Entry with ALNW flight #, date and tech ID
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**References:**

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