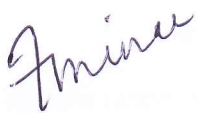





**Aga Khan University Hospital**

<b>Title:</b>	Blood Storage in Cardiac Operating Room		
<b>Department / Division:</b>	Operating Room		
<b>Service Line</b>	Anesthesiology, OR , CSSD (SL-C)		
<b>Approved By:</b>	<b>Document No.:</b>	SLC-OR-PP-020	
<b>Interim Chair and Service Line Chief,</b> Department of Anesthesiology		<b>Issuance Date:</b>	May 01, 1998
<b>Chief Perfusionist,</b> Operating Room		<b>Revision Date:</b>	February 01, 2019
		<b>Revision No.:</b>	05
		<b>Prepared By:</b>	OR Team
		<b>Total Pages:</b>	03

**1. Purpose(s):**

- 1.1. To establish blood storage facilities only for cardiac surgery patients
- 1.2. To avoid wastage of unused blood
- 1.3. To ensure safe blood transfusion to cardiac surgery patients intra-operatively
- 1.4. To prevent delay in blood transfusion

**2. Scope:**

2.1. We have specialized blood storage facilities for cardiac surgery patients which is very strictly monitored and controlled. This ensures that there is no wastage of unused blood, which will ensure safe blood transfusion to cardiac surgery patient intra operatively. This also ensures maximum quality and efficiency preventing delay in blood transfusion

**3. Responsibility:**

- 3.1. Cardiac Anesthetist, Anesthesia Technician & Cardiac Perfusionist

**4. Terms & Definition:-**

- 4.1. Assigned Perfusionist will be responsible for:
  - 4.1.1. Ensuring that blood bank refrigerator is on emergency electrical supply at all times.
  - 4.1.2. Keeping the refrigerator "ON" at all times.
  - 4.1.3. Making certain that refrigerator alarms are working by checking them on quarterly basis.

4.2. Assigned Anesthesia Technician will:

- 4.2.1. Ensure that the temperature is maintained between +1°C to +6°C
- 4.2.2. Record the temperature daily and maintain the record in the designated form kept with fridge.
- 4.2.3. Assigned cardiac perfusionist will change the temperature record paper as per need.
- 4.2.4. Surgical team will ensure that blood /products have been arranged in blood bank.
- 4.2.5. Assigned Anesthesia technician will send request for two units of blood, 30 minutes to 1 hour prior to surgery.
- 4.2.6. As soon as the pack cells are received, the assigned staff on the counter will hand over blood to the cardiac perfusionist or assigned OR staff in the operating room. This should be recorded in a log book with timings.
- 4.2.7. The cardiac perfusionist will store the packed cell in the blood bank refrigerator after checking the label of blood bags with request slip and Patient s' ID band along with anesthetist and put it in the assigned shelf.
- 4.2.8. Each refrigerator shelf will be allocated for one patient only that will be clearly labelled with patient's name and MR No.
- 4.2.9. The Anesthesia technician will be responsible to send back any unused blood bags to Blood Bank after shifting the patient within ONE HOUR and will not hand it over to CICU staff unless requested by Anesthetist. This should be entered in a log book with timings.

**5. Process/ Process:-**

- 5.1. When alarm of refrigerator starts ringing then it is the duty of Perfusionist to follow the subsequent steps:
  - 5.1.1. Turn sound alarm off and inform this event to the maintenance coordinator.
  - 5.1.2. Record the temperature and report any discrepancy to maintenance department
  - 5.1.3. Observe the temperature indicator for 10 minutes to see if the temperature comes back to normal automatically
  - 5.1.4. Call the engineer on duty & inform in case the abnormal temperature persists for more than 10 minutes
  - 5.1.5. Take out all the blood units in case the temperature fails to resume to the required temperature. Done by Anesthesia Technician.
  - 5.1.6. Return all the blood bags to blood bank. Done by Anesthesia Technician.
  - 5.1.7. Inform supervisor / designee as soon as possible

6. References:

7. Annexure:

**Document Change Record:**

<b>Review #</b>	<b>Review Date (dd-mm-yyyy)</b>	<b>Description Of Change</b>	<b>Identification of Change</b>
03	06-06-2015	Change in new format	Choose an item
04	01-Feb-2016	Formatting as per service line. Change in document no.	-
05	01-Feb-2019	-	-