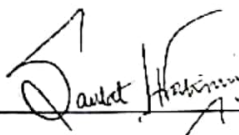





## Aga Khan University Hospital

<b>Title:</b>	Changing an Oxygenator		
<b>Department / Division:</b>	Anaesthesiology / Operating Room		
<b>Approved By:</b>		<b>Document No.:</b>	OR-PP-015
<b>Section Head, Cardio-thoracic Surgery</b>		<b>Issuance Date:</b>	January 01, 1997
<b>Chief Perfusionist, Operating Room</b>		<b>Revision Date:</b>	July 24, 2023
		<b>Revision No.:</b>	06
		<b>Prepared By:</b>	OR Team
		<b>Total Pages:</b>	02

1. **Purpose(s):**  
In the event when the Oxygenator fails to exchange gases or oxygenate blood during cardiac surgery
2. **Scope:**  
To provide oxygenated blood to the patient during cardiopulmonary bypass surgery.
3. **Responsibility:**  
Cardiac Perfusionist / Assistant Cardiac Perfusionist II who demonstrate competency.
4. **Terms & Definition:-**
5. **Process/ Process:-**

	<b>Steps</b>	<b>Rationale</b>
5.1	<b>MEMBRANE OXYGENATOR:</b>	
	5.1.1 Inform anaesthetist and surgeon about the problem and what you plan to do.	
	5.1.2 Cool the patient if time permits.	5.1.2 It allows extra time for procedure.
	5.1.3 Close the arterial line filter, turn off the venous line and double clamp the inlet line of the Oxygenator's inlet port.	
	5.1.4 Aseptically, cut the line between clamp and attach the line to the	5.1.4 To prevent infection.

Steps	Rationale
inlet port of the new Oxygenator.	
5.1.5 Remove the clamps from the inlet and cardiotomy lines. Slowly fill the Oxygenator to the correct level.	
5.1.6 De-bubble the circuit.	
5.1.7 Resume bypass safely.	
5.1.8 Correct hematocrit and blood gases as required.	5.1.8 To keep at hemodynamically and physiologically safe level.
5.1.9 Attach the water lines and monitoring equipment as time permits.	

**6. References:**

Gravlee, G.P., Davis R.F., Kurusz, M., & Utley, J.R (2000). Cardiopulmonary Bypass: Principles and Practice. (2ndedition). New York: Lippincott Williams & Wilkins.

Cardiopulmonary Bypass: Principles and Practice. 3rd Edition (2008).By Glenn P. Gravlee

**7. Annexure:**

**Document Change Record:**

Review #	Review Date (dd-mm-yyyy)	Description Of Change	Identification of Change
03	06-Jun -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		
06	24-July-2023	Formatting as per Department / Division	