



Conservative Arm

Response to patient hypoxia



Emergency Response

Cardiac arrest
or patient $\text{SpO}_2 < 80\%$

YES

Check ECMO blood and gas flow
Check blender FbO_2 is at 1.0
Increase ventilator FiO_2 to 1.0

NO

Patient $\text{SpO}_2 < 92\%$

YES

Increase ventilator FiO_2 until patient SpO_2 92-96%
(then optimise ventilator settings to reduce FiO_2)

If ventilator FiO_2 reaches 0.8, check post-oxygenator ABG

Post-oxygenator $\text{SaO}_2 < 92\%$

YES

Increase FbO_2 by 0.2
If FbO_2 1.0 and post-oxygenator SaO_2 are $< 92\%$,
seek expert advice and consider oxygenator change

Check post-oxygenator ABG every 12 hours

Check post-oxygenator ABG 10 minutes after each FbO_2 change

Clinicians may alter the lower target saturation if considered appropriate for the patient.

If any questions, please contact the Principal Investigator:

or Research Coordinator: