Lung Rescue Unit

Guidelines for initiation and management of **VV ECMO**

(non lung-transplant/non cardiac-surgery/non trauma patients)

Inclusion Criteria

1. Murray Score ≥ 3 (cesar.lshtm.ac.uk/murrayscorecalculator.htm)

    a. Enter # of quadrants with infiltrates on CXR

    b. Enter PaO_2/FiO_2 in mmHg on 100% for 20 minutes

    c. Enter PEEP value (cm H_2O)

    d. Enter compliance (ml/cm H_2O) - [Tidal volume/(PIP-PEEP)]

2. Hypercapnia (CO_2>60) with pH <7.25, or inability to adequately ventilate with Pplat ≤ 30 cm H_2O

3. On ventilator ≤ 10 days

4. ≤ 65 years of age

5. Patient with a *reversal* form of ARDS (e.g., infectious, trauma, post-operative)

6. Bedside physician clinical discretion

Exclusion criteria (Relative)

1. > 65 years of age

2. > 10 days on ventilator

3. Requirement for home O_2 therapy for severe lung disease

4. Severe neurological insult / injury

5. Inability to tolerate anticoagulation

6. Terminal disease with low 1-year survival rates

7. Severe underlying liver disease

8. Acute hepatic failure

9. Ongoing /uncontrolled hemorrhage

10. Jehovah's Witness (unwilling to receive blood products)

11. Acquired Immune Deficiency Syndrome (AIDS) related-cause of respiratory failure

12. Bedside physician clinical discretion