

# Straub Benioff Adult ECMO Program

## ECMO Referral Criteria

### Acute Respiratory Distress Syndrome

- Severe hypoxemia with a P/F ratio of less than 150, on optimal ventilator settings, or a P/F ratio of less than 80 after a trial of prone positioning.
- ECMO may be considered after a shorter time interval if the ratio of PaO<sub>2</sub> to FIO<sub>2</sub> is less than 50.
- Unable to do ARDSNet Ventilation Protocol.

### Hypercapnic Respiratory Failure

- Hypercapnic respiratory failure due to acute exacerbations of asthma, COPD or other chronic lung disease as a bridge-to-recovery may be considered on a case-by-case basis.
- PaCO<sub>2</sub> > 60 and pH < 7.25.

### Cardiac Indications

- Refractory cardiogenic shock with underlying etiologies that include:
  - Primary ischemic etiologies such as acute myocardial infarction.
  - Non-ischemic etiologies, including fulminant myocarditis and peripartum cardiomyopathy.
  - Failing two or more drips plus failure of MCS (IABP/Impella).
- Patients with massive pulmonary embolism as a bridge to more definitive therapy.

### Potential Contraindications

Relative contraindications for VV ECMO at Straub Benioff Medical Center may include:

- Days on ventilator > 7 days on high ventilator settings
- Age > 75 years
- Uncontrolled hemorrhage
- Terminal Cancer: <6m survival
- Advanced dementia
- Hemispheric CVA



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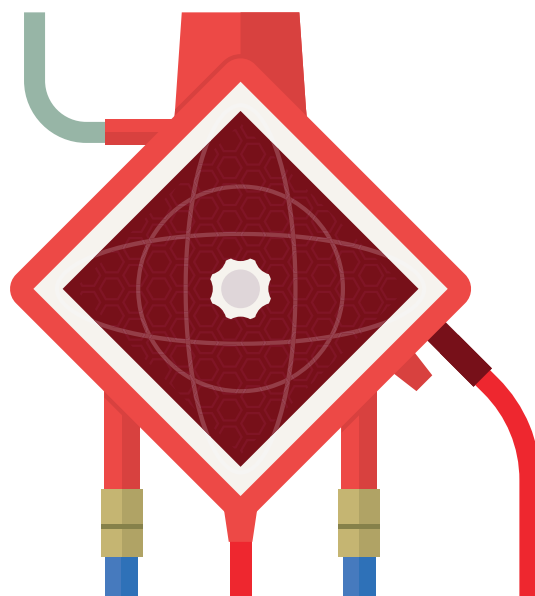
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*VV-ECMO is not intended for patients with a low likelihood of pulmonary recovery or who are not candidates for lung transplant given the lack of an exit strategy.*

Relative contraindications for VA ECMO at Straub Benioff Medical Center may include:

- Age > 75 years
- Uncontrolled hemorrhage
- Terminal Cancer: < 6 months predicted survival
- Advanced dementia
- End-stage liver disease
- ICH > 1cm



*VA-ECMO is not intended for patients with a low likelihood of myocardial recovery or who are not candidates for durable VAD or cardiac transplant given the lack of an exit strategy.*

If you have questions regarding the Straub Benioff Medical Center Adult ECMO Program, please contact:

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[HawaiiPacificHealth.org/ForProviders/ECMO](https://HawaiiPacificHealth.org/ForProviders/ECMO)

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