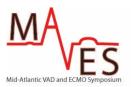




Welcome to the 12th Annual MAVES

3 May 2020



Thank YOU, 2020 vendors, for your support!!

During the breaks, please visit our supporting vendors in their breakout room through the CHAT function and be entered into a raffle for Amazon gift cards!





Caring for Lives through Innovation, Quality and Service







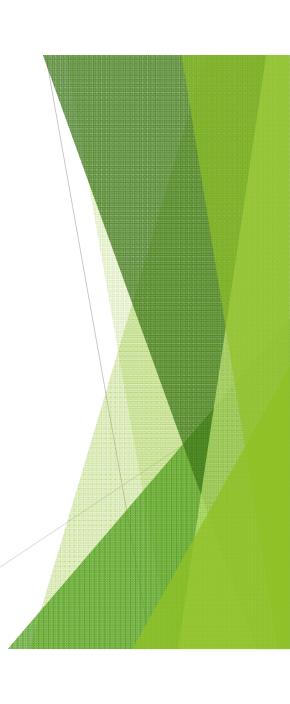
INVOSUITE SILVER SPONSORS





Challenges

- ►Normal Vs COVID-19
- ►COVID-19 APROACH
- **▶** Precautions
- ►Thinking outside the Box



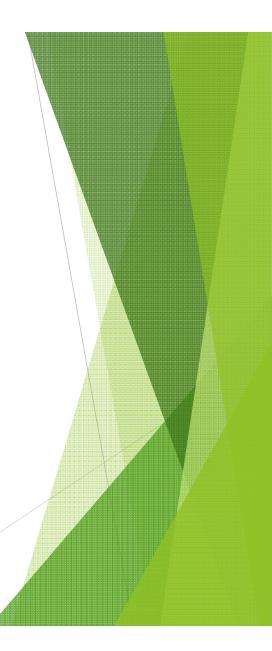
Normal Vs COVID-19

Normal ECMO

- **▶** Effortless
- Routine Maintenance

COVID-19 ECMO:

- ► Staffing, location, No. ECMOs
- CCP/RN out of room
- Delayed interventions
- PPE used all day
- Alarm fatigue
- No Hazard pay
- Increased stress level/anxiety for family and Staff

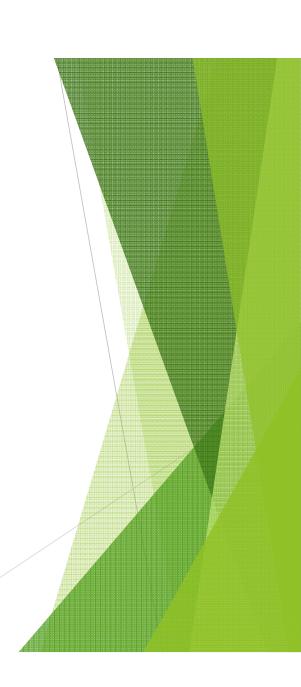


COVID-19 VV ECMO Patients N= 6

- ▶3 Expired
- ► 1 Off VV ECMO
 Ding Well (oldest)
- ▶2 Still on

Demographics:

- ▶ 2 female Expired
- ▶ 1 Male expired
- ► Age range 41-72 year of age

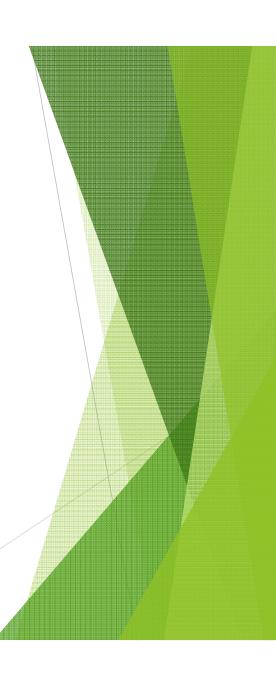


Behavior Of COVID19 Patients on VV ECMO

- ARDS, Honeycomb Lungs
- ► High PEEP, Airway Pressure
- Severe Hypoxemia
- Hyper Coagulable
- Prone to Peripheral, Cerebral and PulmonaryTromboembolism
- ► Cardiac muscle edema

- Current Treatment:
- ► Hydroxycloroquine (Plaquenil)*
- ► Azithromycin (Z-Pak)*
- Convalescent Plasma (new)
- Cytosorb (new)*
- Remdesivir (new)

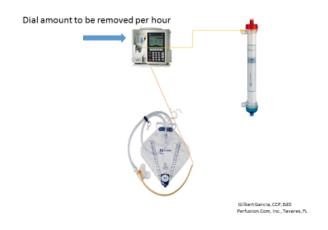
No one knows enough about this disease, thus no definitive treatment as yet.

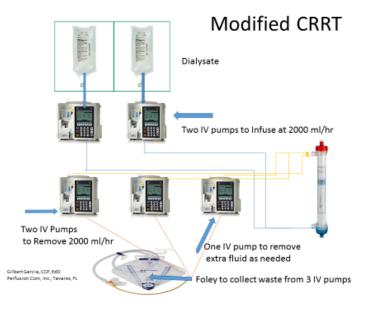


Our Approach

- All Cannulations in CVOR
- Daily Bronchoscopies
- ASAP Tracheostomies
- Daily X-Rays
- ► KeepTemp: 36C
- Hemoconcentrartor is Used
- Modified CRRT as Needed

Precise Fluid Removal on ECMO



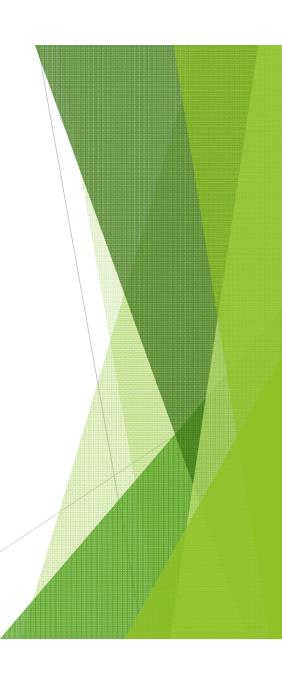


Anticoagulation/Rx

- ► 10,000 IU Heparin during Cannulation
- Angiomax Drip for the duration of VV ECMO
- No Steroids
- Sedation: Ketamine, Fentanyl, Morphine, Versed, Ativan
- Bicarb Drip

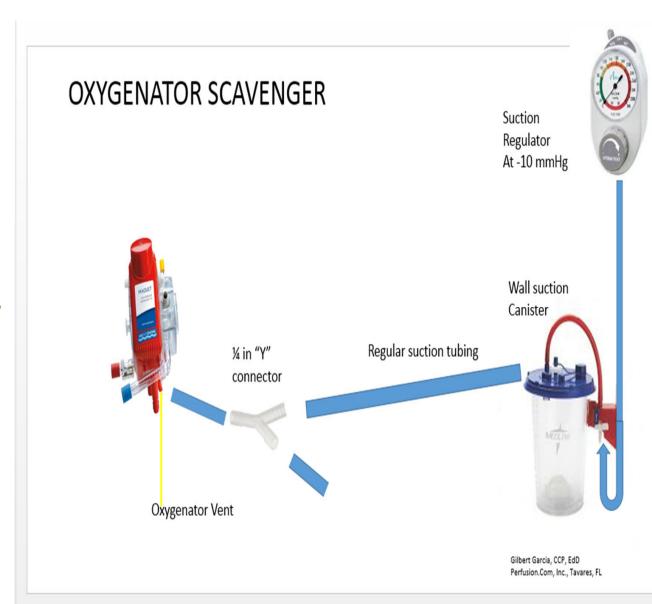
Rest Ventilator setting:

- Minimal Peep (5 cmH2O)
- Low VT (usually 300ml)
- Low Peak Pressure (<30cmH2O)</p>
- ► FiO2 30-40%
- ► Levo, Neo, Vasopressin PRN
- Strict I/O Management
- Albumen PRN



Precautions

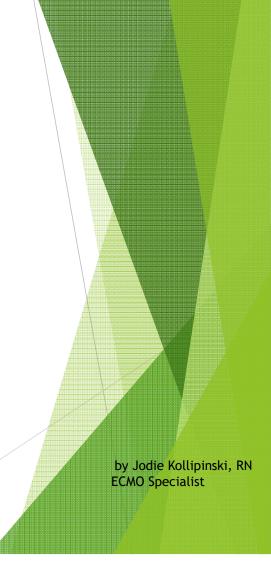
- ► Turn Ventilator <u>OFF</u> during Bronchoscopy
- ► HEPA Filter for the Exhalation tube of Ventilator
- Oxygenator Scavenger
- Remote view of Cardiohelp with Adaptation of Baby Monitor
- ▶ PPE



Remote View Of ECMO Console Vtec Owl







Thank You

DO Don't





