In collaboration with

**Advanced Ventilator Management Algorithm**

**Ventilator goals:**
- **Mode:** VC or PRVC
- **Tidal volume:** 4-8 mL/kg PBW
- **PEEP:** Low PEEP Fio2 Table
- **RR:** for pH 7.25-7.42
- **Fio2:** for SpO2 88%-98%

**Management Goals:**
- Driving pressure <14
- RR for pH 7.25-7.42
- PaO2 >60 or SpO2 88%-98%

1. **Reassess every 3-6 hours**
   - **No**
   - **Yes**

2. **Recruitable?**
   - **No**
     - Maintain low PEEP/ Fio2 Table
   - **Yes**
     - Set higher PEEP to maintain recruitment and change to the High PEEP/Fio2 Table

3. **Maintain low PEEP/ Fio2 Table**
   - **S/F or P/F <150?**
     - **No**
       - **Pplat Pressure <30?**
         - **No**
           - Reduce VT 1 mL/Kg
         - **Yes**
     - **Yes**
       - Prone position

4. **S/F or P/F <80?**
   - **No**
     - **Consider:**
       - Inhaled vasodilators
       - ECMO
   - **Yes**
     - Prone position
Call for help

- SpO2 less than 88% on an FiO2 of 1.0 for more than 15 minutes despite troubleshooting
- pH less than 7.25 for more than 2 blood gases
- pH less than 7.10
- PaO2 less than 40
- SpO2/FiO2 or PaO2/FiO2 ratio of less than 150 for 2 hours
- SpO2/FiO2 or PaO2/FiO2 ratio of less than 80
- High-priority alarms (red) you cannot resolve within 2 minutes
  - Manually ventilate until help arrives
- Low-priority alarms (yellow) you cannot resolve within 15 minutes