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 minute
  - Manually ventilate until help arrives
- Low-priority alarms (yellow) you cannot resolve within 15 minutes
Basic Ventilator Management Algorithm

**Management Goals:**
- SpO₂ 88-98%
- VT – 6-8 mL/kg PBW
- pH 7.25-7.42
- PIP <35
- Pplat ≤30

**Ventilator settings:**
- Mode: VC or PRVC
- Tidal volume: 6 mL/kg PBW
- PEEP: 10 cmH2O
- RR: 25 bpm
- Fio₂: 1.0
- Obtain an ABG and CXR within 1 hour

**P/F or S/F >150?**
- Yes: Other indications for intubation?
  - Yes: Reassess every 3-6 hours
  - No: Oxygen via face mask or HFNC
- No: P/F or S/F ≤150?

**Pplat / PIP acceptable?**
- Yes: SpO₂ 88%-98%
  - Yes: <88%; Adjust PEEP according to PEEP/Fio₂ chart
    - >98%; Wean Fio₂ and readjust PEEP according to the PEEP/Fio₂ chart
  - No: pH 7.25-7.42?
    - Yes: pH <7.25 increase RR
    - No: pH >7.42 decrease RR
- No: Pplat high: Consider suctioning
  - Yes: Contact ICU Escalation Team

**Other indications for intubation?**
- Yes: Other indications for intubation?
  - Yes: Reassess every 3-6 hours
  - No: Oxygen via face mask or HFNC
- No: Other indications for intubation?
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%

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

- **Maintain low PEEP/ Fio2 Table**
  - **Pplat Pressure < 30?**
    - **Yes**: Prone position
    - **No**: Reduce VT 1 mL/Kg
  - **S/F or P/F < 150?**
    - **Yes**: Prone position
    - **No**: Consider:
      - Inhaled vasodilators
      - ECMO

- **Reassess every 3-6 hours**