VENT TROUBLESHOOTING: HIGH PEAK PRESSURES

**High Peak Inspiratory Pressures (PIP)**
- Try in-line suctioning
- Perform an inspiratory hold maneuver

**Pressure Tracing During Inspiratory Hold Maneuver**
- \[ P_{\text{peak}} \]
- \[ P_{\text{plateau}} \]
- \[ P_{\text{PEEP}} \]

- **Resistance Problem**
  - Elevated peak but normal plateau
  - Tubing problems
  - Mucous plugging
  - Bronchospasm

- **Compliance Problem**
  - Elevated peak & plateau pressure
  - Parenchymal Problem
  - Pulmonary Edema
  - ARDS

- **PEEP Problem**
  - Increased measured PEEP
  - Auto-PEEP

**Resistance**
- \[ R = \frac{\Delta P}{\text{Flow}} = \frac{\Delta P}{P_{\text{plat}} - P_{\text{PEEP}}} \]

**Compliance**
- \[ C = \frac{\Delta V}{\Delta P} = \frac{V_T}{P_{\text{plat}} - P_{\text{PEEP}}} \]