Mechanical power and driving pressure as predictors of mortality among patients with ARDS.

**Driving Pressure vs. Mechanical Power**

\[ \Delta P = \text{Tidal Volume} \times \text{Respiratory System Compliance} \]

\[ MP \rightarrow \text{Flow}, \text{RR}, \text{TV}^2 \]

**Cohort**

2,454 ARDSNet Subjects

Patients stratified

**60-day Hospital Mortality Models Using \( \Delta P \) and MP**

- **Driving Pressure Only**
  - \( \Delta P \rightarrow \) Mortality
- **Driving Pressure with MP**
  - \( \Delta P, MP \rightarrow \) Mortality
- **Driving Pressure with MP components**
  - \( \Delta P, \text{Flow, RR, TV}^2, \text{PEEP} \rightarrow \) Mortality

Examined in previous studies.

**Better model than \( \Delta P \) alone.**

No difference between MP and MP components.

When \( \Delta P \) is matched, MP is a better predictor of mortality.

When MP is matched, \( \Delta P \) is not a better predictor of mortality.

**Conclusion:** Future studies should consider both MP and \( \Delta P \). There are important differences between MP and \( \Delta P \) for certain subgroups.

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