

# PULM

## Equation of Motion

$$P_{\text{delivered}} = P_{\text{resistive}} + P_{\text{elastic}}$$

$$P_{\text{aw}} = \dot{V}R + \frac{V_t}{C} + \text{PEEP}_{\text{total}} + P_{\text{musc}}$$

## CARDS

$$\text{TPG} = \text{mPAP} - \text{PCWP}$$

$$\text{SVR} = \frac{\text{MAP} - \text{CVP}}{\text{CO}} \cdot 80$$

$$\text{CO} = \text{LVOT}_{\text{area}} \cdot \text{LVOT}_{\text{VTI}} \cdot \text{HR}$$

## Swan-Ganz Equations

$$\text{CO} = \frac{\text{VO}_2}{C_a - C_v}, \text{ where } C_v = \text{ScvO}_2 \text{ (mixed venous oxygen content)}$$

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Last update: 2023/12/14 20:39

