

# PULM

## Equation of Motion

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

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

# CARDS

$$TPG = mPAP - PCWP$$

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

$$CO = LVOT_{\text{area}} \times LVOT_{\text{VTI}} \times HR$$

## Swan-Ganz Equations

$$CO = \frac{VO_2}{C_a - C_v}, \text{ where } C_v = ScvO_2 \text{ (mixed venous oxygen content)}$$

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