PULM

Equation of Motion

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

$P_{aw} = \dot VR + \frac{V_t}{C} + PEEP_{total} + P_{musc}$

CARDS

$TPG = mPAP - PCWP$

$SVR =\frac{MAP-CVP}{CO}\cdot80$

$CO = LVOT_{area}\cdot LVOT_{VTI}\cdot HR$

Swan-Ganz Equations

$CO = \frac{VO_{2}}{C_a - C_v}$, where $C_v = ScvO_2$ (mixed venous oxygen content)