

Respiratory Therapy Formulas and Equations:

Minute Ventilation (VE)

$VE = \text{Respiratory Rate} \times \text{Tidal Volume}$

Alveolar Minute Ventilation (VA)

$VA = \text{Respiratory Rate} \times (\text{Tidal Volume} - \text{Deadspace})$

Alveolar Perfusion (PAQ)

$PAQ = (PAP - PEEP) \div (\text{Resistance} \times \text{Flow}) \div 100$

Mean Alveolar Perfusion (PAQ)

$PAQ = (V \div (\text{Respiratory Time} + \text{Compression} \div 60)) \times (PAP - PEEP) - PEEP$

Rate of Breathing (PVR)

$PVR = \text{Change in Pressure} \div \text{Change in Volume}$

Alveolar-Arterial Oxygen Tension Gradient (PA-aO₂)

$PA-aO_2 = PAO_2 - PaO_2$

Alveolar Oxygen Tension (PAO₂)

$PAO_2 = (PB - PH_2O) \times FIO_2 - (PaCO_2 \div 0.8)$

Arterial-Alveolar Oxygen Tension (aA) Ratio

$(aA) \text{ Ratio} = (PAO_2 - PaO_2) \div PaO_2$

Arterial Oxygen Content (CaO₂)

$CaO_2 = (Hb \times 1.36 \times SaO_2) + (PaO_2 \times 0.003)$

Mean Capillary Oxygen Content (CcO₂)

$CcO_2 = (Hb \times 1.36 \times SaO_2) + (PaO_2 \times 0.003)$

Mixed Venous Oxygen Content (CvO₂)

$CvO_2 = (Hb \times 1.36 \times SvO_2) + (PvO_2 \times 0.003)$

Shunt Equation (Qs/Qt)

$Qs/Qt = (CcO_2 - CvO_2) \div (CaO_2 - CvO_2)$

Modified Shunt Equation (Qs/Qt)

$Qs/Qt = [(PAO_2 - PaO_2) \div 0.003] \div [(CaO_2 - CvO_2) + (PAO_2 - PaO_2) \times 0.003]$

Arterial-Mixed Venous Oxygen Content Difference (Ca-vO₂)

$Ca-vO_2 = CaO_2 - CvO_2$

Oxygen-to-Air Enrichment Ratio (O₂A₂)

$O_2A_2 = 1 \div (1 - FIO_2) \times (PaO_2 \div (PB - PH_2O))$

Arterial Oxygen Saturation Difference (SaO₂)

$SaO_2 = PaO_2 \div 30$

PAQ/PAQ Ratio (PAP Ratio)

$PAP \text{ Ratio} = PAQ \div PAQ$

Oxygenation Index (OI)

$OI = [(PAP + PaO_2) \div PaO_2] \times 100$

Respiratory Care Formulas

D Keegan



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