

Respiratory Therapy Formulas and Equations:

Minute Ventilation (VE)

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

Adjusted Minute Ventilation (VA)

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

Alveolar Perfusion (PA_{alv})

$PA_{alv} = (PBP - \text{Pulmonary pressure}) / P_{flow}$

Mean Alveolar Pressure (P_{alv})

$P_{alv} = (\text{Inspiratory Time} \times P_{inspired} / 60) + (PBP - PEEP) \times (PBP - PEEP)$

Spont. or Blanding (P_{alv})

$P_{alv} = \text{Change in Pressure} \times \text{Change in Volume}$

Alveolar-Arterial Oxygen Tension Gradient (P_{A-a}O₂)

$P_{A-a}O_2 = P_{AIO_2} - P_{aIO_2}$

Alveolar Oxygen Tension (P_{alv}O₂)

$P_{alv}O_2 = (P_{alv} - P_{alv}O_2) \times P_{aIO_2} + (P_{alv}O_2 \times 0.8)$

Arterial-Alveolar Oxygen Tension (P_{A-a}) Ratio

$(P_{A-a}) \text{ Ratio} = P_{alv}O_2 / P_{aIO_2}$

Arterial Oxygen Content (C_aO₂)

$C_{aO_2} = (Hb \times 1.36 \times SaO_2) + (PaO_2 \times 0.003)$

Mean Capillary Oxygen Content (C_{cap}O₂)

$C_{capO_2} = (Hb \times 1.36 \times ScO_2) + (PaO_2 \times 0.003)$

Mixed Venous Oxygen Content (C_vO₂)

$C_{vO_2} = (Hb \times 1.36 \times SvO_2) + (PvO_2 \times 0.003)$

Shunt Equation (Q_{shunt})

$Q_{shunt} = (C_{aO_2} - C_{vO_2}) / (C_{aO_2} - C_{vO_2})$

Modified Shunt Equation (Q_{shunt})

$Q_{shunt} = (P_{aIO_2} - P_{aIO_2} \times 0.003) / (C_{aO_2} - C_{vO_2}) + (P_{aIO_2} - P_{aIO_2}) \times 0.003$

Arterial-Mixed Venous Oxygen Content Difference (C_{a-v}O₂)

$C_{a-v}O_2 = C_{aO_2} - C_{vO_2}$

Oxygen-to-Air Enrichment Ratio (O₂A₂)

$O_2A_2 = 1 / (1 + P_{aIO_2} / (P_{aIO_2} \times 0.8))$

Arterial Oxygen Saturation Difference (P_{A-a}O₂)

$P_{A-a}O_2 = P_{aIO_2} \times 0.8$

P_{alv}O₂ Ratio (P_{alv} Ratio)

$P_{alv} \text{ Ratio} = P_{alv}O_2 / P_{aIO_2}$

Oxygenation Index (OI)

$OI = (P_{alv} \times P_{aIO_2}) / P_{aIO_2} \times 100$

Quadratic Equations And Respiratory Therapy

G Orfield



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