

Initiation & Management of Mechanical Ventilation Post-Test

- 1) Which of the following is a primary indication for initiating mechanical ventilation?
 - a) Mild metabolic alkalosis
 - b) Airway protection in a patient with GCS 6
 - c) Hypertension
 - d) Hyperglycemia

- 2) Type 1 respiratory failure is defined as:
 - a) $\text{PaCO}_2 > 50 \text{ mmHg}$ with acidosis
 - b) $\text{PaO}_2 < 60 \text{ mmHg}$
 - c) $\text{pH} > 7.45$
 - d) $\text{VD}/\text{VT} > 0.6$

- 3) Which condition is most consistent with Type 2 respiratory failure?
 - a) Pulmonary embolism
 - b) ARDS
 - c) Pump failure with hypoventilation
 - d) Diffusion defect

- 4) The formula for minute ventilation (V_e) is:
 - a) VT / f
 - b) $(\text{VT} - \text{VD}) \times f$
 - c) $\text{VT} \times f$
 - d) $\text{PaCO}_2 \times f$

- 5) Driving pressure (ΔP) is calculated as:
 - a) $\text{PIP} - \text{PEEP}$
 - b) $\text{Plateau} - \text{PEEP}$
 - c) $\text{PIP} - \text{Plateau}$
 - d) $\text{FiO}_2 - \text{PaO}_2$

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- 6) Which ventilator mode guarantees a set tidal volume?
- a) PSV
 - b) CPAP
 - c) A/C Volume Control
 - d) APRV
- 7) Recommended initial tidal volume for lung-protective ventilation is:
- a) 10–12 mL/kg IBW
 - b) 8–10 mL/kg IBW
 - c) 4–8 mL/kg IBW
 - d) 2–4 mL/kg IBW
- 8) Which is the MOST common trigger asynchrony?
- a) Auto-triggering
 - b) Ineffective triggering
 - c) Delayed cycling
 - d) Flow starvation
- 9) Which RSBI value predicts likely weaning success?
- a) > 150
 - b) >120
 - c) < 105
 - a) < 200
- 10) Which of the following is part of VAP prevention?
- a) Supine positioning
 - b) Frequent circuit disconnections
 - c) Head of bed 30–45° elevation
 - d) Avoid oral care