

Current Topics in Mechanical Ventilation for Adults

1. Increased mean airway pressure is a primary advantage of the _____ mode.
 - a. Volume control
 - b. Pressure control
 - c. Pressure support

2. The primary purpose of _____ has been to assist the patient in overcoming the imposed work of breathing from the endotracheal tube.
 - a. Volume control
 - b. Pressure control
 - c. Pressure support

3. Which of the following modes combines volume and pressure control/support to achieve the advantages of each type?
 - a. Volume-Assured Pressure Support
 - b. Pressure Augmentation
 - c. Pressure-Regulated Volume Control
 - d. All of the above

4. Which of the following ventilators includes a mode that delivers breaths described by the following: the patient triggers a pressure support breath and the ventilator measures its output to adjust to a minimum preset tidal volume during the breath.
 - I. Siemens 300a
 - II. Bear 1000
 - III. Bird 8400 STI
 - a. I & II
 - b. II & III
 - c. I & III
 - d. I, II, III

5. For which of the following ventilators does the dual control NOT operate in the IMV mode?
 - a. Hamilton Galileo
 - b. Draeger Evita 4
 - c. Cardiopulmonary Venturi
 - d. Siemens 300a

Current Topics in Mechanical Ventilation for Adults

6. Which of the following modes will ventilate a patient at a constant tidal volume, adjusting the output to achieve the minimum peak airway pressure?
 - a. Pressure-Regulated Volume Control
 - b. Autoflow
 - c. Variable Pressure Control
 - d. All of the above

7. Which ventilator includes a mode that adjusts the ventilator output to achieve the optimal breathing pattern, adjusted to estimated deadspace and measured pulmonary mechanics?
 - a. Siemens 300a
 - b. Draeger Evita 4
 - c. Hamilton Raphael Silver
 - d. T-Bird

8. Which of the following correctly apply to Airway Pressure Release Ventilation?
 - a. It is available on the Puritan-Bennett 840 ventilator
 - b. It is indicated for emphysema
 - c. It does not permit spontaneous breathing
 - d. It is associated with severe circulatory effects

9. Lung protective strategies include which of the following?
 - a. Permissive hypercapnea
 - b. Ventilation with tidal volume 6-7 ml/kg
 - c. Prone positioning
 - d. All of the above

10. The purpose of tracheal gas insufflation is to:
 - a. Increase alveolar PO₂
 - b. Dilate pulmonary vasculature
 - c. Wash out CO₂
 - d. Prevent aspiration