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## /test-bank-respiratory-d@gage-ancase-stuck-approach-to-patient-care-3e-dexter

- 1. Your patient has severe pneumonia and the blood gas measurements reveal a PaCO<sub>2</sub> of 51 mmHg and a PaO<sub>2</sub> of 55 mmHg. The patient is breathing with an air entrainment mask at an FIO<sub>2</sub> of 0.60. What conclusion(s) can you reach?
  - A) The patient has ventilatory failure
  - B) The patient has oxygenation failure
  - C) The patient has respiratory failure
  - D) All the above
- 2. Which of the following is most likely to precipitate respiratory failure in a patient with borderline pulmonary function?
  - A) Hypertension
  - B) Severe fever
  - C) Hypothermia
  - D) Tachycardia
- 3. Your patient has a PaO<sub>2</sub> of 39 mmHg. How would you classify this level of oxygenation?
  - A) Mild hypoxemia
  - B) Moderate hypoxemia
  - C) Severe hypoxemia
  - D) Depends on the FIO<sub>2</sub>
- 4. What would be the proper classification for a 70-year-old male with a PaO<sub>2</sub> of 55 mmHg?
  - A) Mild hypoxemia
  - B) Moderate hypoxemia
  - C) Severe hypoxemia
  - D) Depends on the FIO<sub>2</sub>
- 5. What causes hypoxemia that typically does not respond well to oxygen therapy?
  - A) Shunt
  - B)  $\dot{V}/\dot{Q}$  mismatching
  - C) Hypoventilation
  - D) None of the above
- 6. Which of the following is least likely to be associated with ventilatory failure?
  - A) Neuromuscular disease
  - B) Cervical spinal cord injury
  - C) Drug overdose
  - D) Pneumonia

- 7. Which of the following can contribute to diaphragm dysfunction and lead to ventilatory failure?
  - A) Emphysema
  - B) Malnutrition
  - C) Electrolyte abnormalities
  - D) All the above
- 8. What term is used to describe the condition of right heart failure due to chronic pulmonary hypertension?
  - A) Congestive heart failure
  - B) Cor pulmonale
  - C) Cardiac tamponade
  - D) ARDS
- 9. The patient with inadequate oxygenation of the brain will usually display what symptom(s)?
  - A) Confusion
  - B) Excitement
  - C) Diminished cognitive function
  - D) A and C only
- 10. What is the primary response of the brain to severe ventilatory failure with respiratory acidosis?
  - A) Somnolence and potentially coma
  - B) Excitement
  - C) Depends on the PaO<sub>2</sub>
  - D) Depends on the blood pressure
- 11. Your patient has severe hypoxemia according to the blood gas analysis, but cyanosis is not seen. What may explain this?
  - A) Hypotension
  - B) Anemia
  - C) Leukocytosis
  - D) Fever
- 12. Your patient has COPD and has been told he has cor pulmonale. Which of the following findings is NOT consistent with this patient?
  - A) JVD
  - B) Hepatomegaly
  - C) Bradycardia
  - D) Pedal edema

- 13. Which of the following findings represents the body's compensatory mechanism for chronic hypoxemia?
  - A) Leukocytosis
  - B) Hypokalemia
  - C) Polycythemia
  - D) Hypernatremia
- 14. What clinical finding(s) is (are) consistent with diaphragm fatigue?
  - A) Tachypnea
  - B) Respiratory alterans
  - C) Abdominal paradox
  - D) All the above
- 15. Which of the following modes of therapy is most likely to be effective when the patient has hypoxemia due to physiologic shunting?
  - A) Simple oxygen mask
  - B) Nasal cannula
  - C) Air entrainment mask
  - D) Positive pressure ventilation
- 16. Your patient has severe hypoxemia due to postoperative atelectasis. What treatment should be applied initially?
  - A) Oxygen by nasal cannuala
  - B) Oxygen with CPAP
  - C) Intubation and mechanical ventilation
  - D) Hyperbaric oxygen therapy
- 17. What mode of mechanical ventilation allows the patient to breathe spontaneous breaths between each mechanical breath?
  - A) Assist control mode
  - B) IMV mode
  - C) Control mode
  - D) CPAP mode
- 18. Inverse ratio ventilation (IRV) would be most useful for patients with which of the following illnesses?
  - A) Drug overdose
  - B) Lobar pneumonia
  - C) ARDS
  - D) Polio

- 19. What range is normally used for determining the appropriate tidal volume during initial mechanical ventilation?
  - A) 4–8 mL/kg of ideal body weight
  - B) 5–10 mL/kg of ideal body weight
  - C) 10-15 mL/lb of ideal body weight
  - D) 10-15 mL/kg of actual body weight
- 20. You are monitoring a patient during mechanical ventilation and the peak pressure is reaching 55 cm H<sub>2</sub>0. What problem does this potentially cause?
  - A) Barotrauma
  - B) Renal failure
  - C) Hypertension
  - D) Auto-PEEP
- 21. Your patient has a long history of COPD with CO<sub>2</sub> retention. He now is admitted for acute respiratory failure due to a lung infection. His PaCO<sub>2</sub> has acutely elevated to over 70 mmHg. The physician decides to intubate and use mechanical ventilation. What should be your goal with the mechanical ventilation?
  - A) Return the PaCO<sub>2</sub> to about 40 mmHg
  - B) Return the PaCO<sub>2</sub> to about 50 mmHg
  - C) Lower the PaCO<sub>2</sub> enough to return the pH to 7.35
  - D) Lower the PaCO<sub>2</sub> enough to return the pH to 7.50
- 22. What weaning parameter may be most useful because it evaluates the patient's breathing endurance as well as current pulmonary status?
  - A) Peak inspiratory pressure
  - B) Vital capacity
  - C) Rapid shallow breathing index
  - D) Spontaneous respiratory rate
- 23. What is the primary problem with using IMV for weaning?
  - A) The work of breathing through the circuit
  - B) Difficult to monitor lung function
  - C) Time consuming
  - D) Poor patient tolerance
- 24. Your patient is being weaned using IMV. He appears to be tolerating the wean, but labors during the spontaneous breaths because the endotracheal tube is probably too small. What could be done to overcome this problem?
  - A) Increase the tidal volume during IMV breaths
  - B) Add pressure support
  - C) Increase the flow rate during the IMV breaths
  - D) Give the patient a mild sedative

## **Answer Key**

- 1. D
- 2. В
- 3.  $\mathbf{C}$
- 4. A
- 5. A
- D 6.
- D 7.
- 8. В
- 9. D 10. A
- 11.
- В С
- 12. 13.
- $\mathbf{C}$ 14. D
- 15. D
- 16. В
- 17.
- В
- $\mathbf{C}$ 18. 19. В
- 20. A
- C C 21.
- 22.
- 23. A B
- 24.