

May 2008 DAC Answers

Thursday, May 29, 2008

Compared with a patient who is breathing spontaneously, a patient in the supine position receiving controlled positive ventilation will most likely have which of the following findings?

- A. decreased pulmonary vascular resistance
- B. decreased ration of dead space to tidal volume
- C. increased ventilation of nondependent alveoli
- D. increased perfusion of nondependent alveoli
- E. improved matching of ventilation to perfusion

Answer: C

Wednesday, May 28, 2008

Preoperative evaluation shows a serum Na of 140 mEq/l, Cl of 90 mEq/l, Pa CO₂ of 46 mmHg and arterial pH of 7.50. These findings are most indicative of prior treatment with:

- A. acetazolamide
- B. enalapril
- C. furosemide
- D. mannitol
- E. spironolactone

Answer: C

Tuesday, May 27, 2008

When treating reflex sympathetic dystrophy of the arm, which of the following is the best indicator of a successful sympathetic blockade?

- A. a pinprick sensory deficit in the distribution of the C⁶
- B. a 5 degrees C increase in the temperature of the skin of the hand
- C. an accentuated psychogalvanometric response in the forearm
- D. an ipsilateral positive Horner's syndrome
- E. decrease temperature sensation of the hand.

Answer: B

Friday May 23, 2008

After receiving an axillary block for carpal tunnel release, a patient has pain on incision. Which of the following nerves should be blocked at the level of the elbow to relieve the pain?

- A. intercostobrachial
- B. median
- C. musculocutaneous
- D. radial
- E. ulnar

Answer: B

Thursday May 22, 2008

A 26 –year old woman has headache, nausea, and photophobia 36 hours after cesarean section for chorioamnionitis using subarachnoid block. Temperature is 38.8C and WBC is 14, 500/ mm³. Which of the following is the most appropriate next step in management?

- A. Ibuprofen
- B. iv caffeine sodium benzoate
- C. iv hydration
- D. epidural blood patch
- E. diagnostic lumbar puncture

Answer: E

Wednesday May 21, 2008

A 40 year-old man requires brief surgical relaxation after administration of neostigmine and glycopyrolate for reversal of vecuronium –induced neuromuscular blockade. Succinylcholine 1 mg/kg is administered intravenously. Compared with a patient who has not had prior reversal of neuromuscular blockade, which of the following characterizes the succinylcholine blockade in this patient?

- A. greater antagonism with calcium chloride
- B. slower onset
- C. less profound
- D. less likelihood of phase II neuromuscular blockade
- E. prolonged duration

Answer: E

Tuesday May 20, 2008

The most important cause of hypotension that occurs normally at initiation of cardiopulmonary bypass is:

- A. hemodilution
- B. acidosis

- C. decreased flow rate
- D. vasodilation
- E. hypothermia

Answer: A

Monday May 19, 2008

Which of the following is a side effect of beta-adrenergic blockade?

- A. cerebral vasodilation
- B. decreased LVEDP
- C. hypokalemia
- D. increased airway resistance
- E. uterine relaxation

Answer: D