

SEPTEMBER 2008 DAC ANSWERS

Tuesday, September 30, 2008

A woman is considering a surgical procedure during the first trimester of pregnancy. True statements include:

- a. Preoperative sedation is contraindicated
- b. The incidence of spontaneous abortion is lower with regional anesthesia than with general anesthesia
- c. The incidence of teratogenicity is approximately 10% with general anesthesia
- d. Elective surgery is contraindicated

Answer: D

Monday, September 29, 2008

Effects of rapid infusion administration of vancomycin include:

- a. neuromuscular block
- b. seizures
- c. bradycardia
- d. hypotension

Answer: D

Friday, September 26, 2008

In patients with severe intraoperative myocardial ischemia, effects of successful treatment with beta-adrenergic blockers include:

- a. improved subendocardial blood flow
- b. improved myocardial contractility
- c. decreased ventricular wall tension
- d. dilated epicardial vessels

Answer: A, B, C,

Thursday, September 25, 2008

A 68-year-old man underwent transurethral resection of prostate during spinal anesthesia. One hour after the operation he is dyspneic and the pulse oximeter shows arterial oxygenation saturation of 82%. Causes of this problem include:

- a. extraperitoneal bladder perforation
- b. return of sympathetic tone with dissipation of anesthesia
- c. glycine –related cardiac toxicity
- d. circulatory overload from absorption of irrigating fluid

Answer: D

Wednesday, September 24, 2008

During denitrogenation in an adult, factors that decrease the time required to achieve an end-tidal O₂ concentration of 90% include:

- a. hyperventilation
- b. elevation of the head of the bed
- c. increase in the flow of oxygen
- d. increase in the size of the reservoir bag

Answer: A, C

Tuesday, September 23, 2008

A patient is in the critical care unit in septic shock after emergency cholecystectomy. Heart rate is 110/min, RR 18/min, BP 70/40 mmHg, cardiac output is 8 l/min, pulmonary artery occlusion pressure is 6 mmHg and CVP is 3 mmHg. Appropriate management includes:

- a. infusion of colloids
- b. infusion of norepinephrine
- c. infusion of dopamine
- d. administration of methylprednisolone

Answer: A, B, C

Monday, September 22, 2008

A patient is to undergo creation of an arterio-venous fistula in the upper arm. Appropriate regional anesthetic blocks include:

- a. interscalene and intercostal block
- b. field block
- c. supraclavicular block
- d. thoracic epidural block

Answer: B, D

Friday, September 19, 2008

Which of the following is described by standard deviation during analysis of the results of a clinical study?

- a. central tendency of the study results
- b. distribution of the results of the study group
- c. range of the results of the study group
- d. regression analysis of the study group
- e. statistical significance of the difference between study groups

Answer: B

Thursday, September 18, 2008

Which of the following correctly describe the anatomic location of the brachial plexus?

- a. adjacent to the subclavian vein as it passes through the scalenic muscles
- b. between the posterior and middle scalene muscle
- c. posterior to the first rib
- d. posterior to the subclavian artery
- e. posterior to the vertebral artery

Answer: D

Wednesday, September 17, 2008

Following induction of general anesthesia mask ventilation and first attempt of intubation were unsuccessful. Which of the following is the most appropriate?

- a. administration of additional muscle relaxation
- b. repeat attempt of intubation
- c. fiberoptic intubation
- d. retrograde intubation
- e. cricothyrotomy

Answer: B

Tuesday, September 16, 2008

A 72-year old patient has massive hemorage during a radical prostatectomy. The BP decreases from 110/60 to 70/43 mmHg and CVP from 10 to 4 mmHg. PetCO₂ decreases from 34 to 24 mmHg during constant minute ventilation. The most appropriate next step should be:

- a. apply PEEP
- b. attempt to aspirate air from CVP catheter
- c. expand intravascular volume
- d. place patient in Trendelenburg position
- e. turn the patient to the lateral decubitus position

Answer: C

Monday, September 15, 2008

A 68-years old female is scheduled for mastectomy. She has not taken prescription medications for the last 24 hours. Preoperative examination shows a HR of 109/min and BP 200/105. What is the most likely cause of this?

- a. amiodarone
- b. clonidine
- c. enalapril
- d. hydralazine
- e. nifedipine

Answer: B