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Questions and Answers

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This section includes some questions based on the contents of the articles published in the *Colombian Journal of Anesthesiology*, volume 39, No. 4. Are you up to the challenge of testing your comprehension and knowledge?

Instructions

The questions should be answered as follows:

A. If a, b and c are correct.

B. If a & c are correct.

C. If b & d are correct.

D. If only d is correct.

E. If all are correct.

1. The paper published by Tamara, Jaramillo, Muñoz on expert reports of the Institute of Forensic Medicine showed that:
 - a. The specialty with the highest rate of legal claims was gynecology-obstetrics.
 - b. In most cases the applicant was the criminal justice system.
 - c. About 2% of the cases are directly associated with anesthesia.
 - d. The most frequent diagnosis was death from sequelae of direct non-obstetric causes.
2. With regards to alpha-adrenergic receptors:
 - a. 2B and 2C are located in the spinal cord and the brain.
 - b. 2B and 2C are found in platelets and the pancreas.
 - c. C receptors provide spinal analgesia.
 - d. D receptors are similar to 2B & 2C, but with higher affinity for ligands.

3. Dexmedetomidine is a medetomidine dextro enantiomer with the following characteristics:

- a. Limited water solubility
- b. Its alpha 2:alpha 1 ratio is close to 600: 1.
- c. Mainly affects the phase II liver metabolism.
- d. Inhibits histamine release.

4. Which of the following side effects have been reported with the use of dexmedetomidine?

- a. Nausea.
- b. Atrial fibrillation.
- c. Bradycardia.
- d. Pulmonary edema.

5. With regards to acute liver failure:

- a. When renal failure leads to dialysis, mortality approaches 40%.
- b. It's considered fulminant when the onset is two weeks following the occurrence of jaundice.
- c. The use of extracorporeal liver support systems has shown a 35% reduction in mortality.
- d. It's classified as acute fulminant when the time elapsed from the onset of jaundice and liver failure is more than 2 weeks and less than 3 months.

6. In the preoperative evaluation of the anemic patient, a mean corpuscular volume > 100 is suspicious for:

- a. Vitamin B12 deficiency.
- b. Hemolysis.
- c. Folic acid deficiency.
- d. Chronic renal failure.

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7. Pro-thrombin complex includes the following factors:

- a. X.
- b. IX.
- c. VII.
- d. V.

8. Desmopressin (analogue of vasopressin):

- a. Induces the endothelial expression of the Vw factor, activating factors VII and VIII.
- b. It is indicated for patients with Vw disease type II B.
- c. The usual recommended dose is 0.4 to 0.5 µg/kg, diluted in saline solution for a 30 min administration.
- d. It is contraindicated in patients with thrombocytopenic purpura.

9. Which of the following is/are predictors of coronary stent thrombosis?

- a. Diabetes.
- b. Renal failure.
- c. Age.
- d. Ejection fraction value.

10. The mnemonic for evaluating critical events in anesthesia is "A swift check" and letter A refers to:

- a) Anesthesia awareness.
- b) Insufficient anesthesia.
- c) Pneumothorax.
- d) Anaphylaxis.

Reference: Rev Colomb Anesthesiol. 2011:39(4).

Answers:

- 1. A.
- 2. A.
- 3. D.
- 4. E.
- 5. C.
- 6. B.
- 7. A.
- 8. D.
- 9. E.
- 10. E.