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## Questions and answers

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This section includes questions prepared on the basis of the contents of the articles published in volume 40, number 4 of the *Colombian Journal of Anesthesiology*. Accept the challenge to test your reading comprehension and knowledge.

### Instructions

This is a multiple-choice questionnaire. Please mark the appropriate answer.

- Risk factors associated to complications of radial artery cannulation include the following, except:
  - Prolonged time with an arterial line in place (over 72 hours)
  - Catheter material
  - Use of vasoactive drugs
  - Female gender
- In terms of catheterization of the radial artery, which of the following statements is true?
  - The puncture method (direct or transfixing) has not been associated to an increased risk of thrombosis
  - Arterial catheters inserted with the seldinger technique have shown a significant reduction in the incidence of ischemic complications when compared against the direct puncture technique, without using a guide
  - The cutting point that increases the risk of complications is being over 70 years old
  - Allen's test performed before the puncture is a good predictor of ischemia in the absence of vascular disease
- Studies in patients undergoing myocardial revascularization have shown an increased development of hyperplasia, calcification and atheromatosis of the radial artery in patients with:
  - More than 50 years of age
  - Hypothyroidism
  - Alcoholism
  - Female gender
- When considering the lesion from red cell storage, which of the following distractors is false:
  - Those stored for less than 14 days are called young
  - When units stored longer than 14 days are administered, mortality increases if the units are not leukoreduced
  - Trauma patients receiving units stored for over 2 weeks stay longer with mechanical ventilation in the ICU and exhibit a higher frequency of septic episodes
  - The storage lesion is associated with a decrease in 2-3 diphosphoglycerate and a significant increase in antioxidant release after the second week of storage
- Fetal surgery is a rapidly progressing medical area; with regards to the development of pain pathways in the fetus, the following statement is false:
  - Peripheral pain receptors start developing during the seventh week of gestation
  - During the eighth week of gestation, the afferent fibers that communicate the peripheral receptors with the gelatinous substance start developing
  - The hypothalamic – pituitary adrenal cortex system becomes functional as of the beginning of the third trimester
  - The serotonin – mediated descending inhibitory system of pain only develops after birth
- In terms of intraoperative management during fetal surgery, fluid management has to be rational since the

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- amount of fluid associated with pulmonary edema is above:
- 500 cc
  - 1000 cc
  - 1500 cc
  - 2000 cc
7. With regards to the management of anesthesia for emergency cesarean section, a systematic literature review by Fuentes JB, Pinzón CE, Vasco M, report the following, except:
- In a patient with epidural catheter for labor requiring extended anesthesia for cesarean section, the drug of choice is 2% lidocaine
  - Adding adrenalin to lidocaine decreases the latency of the local anesthetic agent
  - The use of bicarbonate as an adjuvant to 2% lidocaine decreases the latency and improves the quality of the block
  - The type of anesthesia delivered to the mother does not affect the long-term neonatal outcomes
8. Of the following definitions, which is inconsistent with the term massive transfusion
- The need to transfuse more than 10 units in 24 hours
  - The need to transfuse more than 4 units in one hour
  - Replacing more than 50% of the blood volume in 3 hours
  - Using 5 units of red blood cells in 4 hours
9. Referring to neuromuscular monitoring using blockers, which of the following statements is false
- The recovery phase is defined as the start of the fourth response of the train of four and the establishment of the train of four ratio (T4/T1)
  - A simple stimulus is defined as the administration of supramaximum stimuli at a frequency ranging between 1 - 0.1 Hz
  - The normalization of a train of four ratio of 0.8 against the baseline is considered to ensure adequate recovery of the neuromuscular block
  - Post-tetanic count is a useful tool for assessing deep blockade
10. The following echocardiographic parameters assess the right ventricular systolic function, except:
- Displacement of the tricuspid ring
  - Change in the fractional area
  - Right Tei-index
  - Right Ventricular Systolic Work Index

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## References

Raffán F. Preguntas y respuestas. Rev. colomb. anestesiología. 2012;40(4).

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## Answers:

- A
- A
- A
- B
- C
- B
- C
- D
- C
- D