Candidate no



The Hong Kong College of Anaesthesiologists Final Fellowship Examinations Paper II – Critical Appraisal 16 August 2021 (Monday)

11:30 - 12:10 hours

Article

Cardiovascular Pathophysiology And Outcomes. Anaesthesia & Analgesia 2021.

Instructions

There are 8 multiple choice questions in this section, based on the paper by Hallqvist and others (*Anesth Analg, 2021*), including its supplemental content (all in one pdf file). For each question, choose the ONE best answer.

- 1. It was a case-control study because:
 - (1) all patients had noncardiac surgery in Sweden.
 - (2) myocardial infarction only occurred in one group of the study.
 - (3) intraoperative hypotension occurred in both groups of patients.
 - (4) there were equal number of patients in both groups of patients.

A.	(1) only	
В.	(2) only	
C.	(1) and (3) only	
D.	(2) and (4) only	
E.	(1), (2) and (3) only	

- 2. The study design was labelled as "nested", because:
 - A. both cases and controls were selected from the same cohort study.
 - B. age and sex were similar between cases and controls.
 - C. both cases and controls came from one country.
 - D. electronic database was used.
 - E. it is registered in a "nested" registry.

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3.	In this study, the independent (explanatory) variable was:
	A. intraoperative hypotension. B. acute type 1 myocardial infarction only. C. acute type 2 myocardial infarction only. D. past history of myocardial infarction. E. acute kidney injury - Improving Global Outcomes (KDIGO) criteria stage 1.
4.	Which of the following patient characteristic(s) in the controls had been matched for each case in the study? (1) type of anesthesia (general/regional/local) (2) age (3) preoperative hemoglobin (4) duration of surgery
	A. (1) only B. (2) only C. (1) and (3) only D. (2) and (4) only E. (1), (2) and (3) only
5.	Conditional logistic regression was used to analyze the data because: (1) the dependent variable is binary. (2) the independent variable is continuous. (3) the two groups were matched. (4) there were confounding variables.
	A. (1) only B. (2) only C. (1) and (3) only D. (2) and (4) only E. (1), (2) and (3) only
6.	In this study, the risk of myocardial infraction in very-high risk patients with a decrease in blood pressure of 45 mmHg from baseline, for > 5 min was:
	A. similar to those without hypotensive episode. B. 2.5-fold higher than those without hypotensive episode. C. 3.4-fold higher than those without hypotensive episode. D. 6.6-fold higher than those without hypotensive episode. E. 10-fold higher than those without hypotensive episode.

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7.	 This study showed that the risk of death on day 91-365 after surgery was his with: (1) intraoperative hypotensive episode – a decrease in blood pressure > 5 min. (2) postoperative myocardial infarction. (3) intraoperative blood loss (> 1800 mL), Hb < 85 g/L, hypoxia (SaO₂ < balance (> 2000 mL). (4) postoperative acute kidney injury - Improving Global Outcomes (KDIGG 	0 mmHg for > 5 90%), and fluid
	1. A. (1) only B. (2) only C. (1) and (3) only D. (2) and (4) only E. (1), (2) and (3) only	
8.	In general, the use of case-control study is particularly useful in studying (1) rare disease. (2) dynamic patient population. (3) outcome with long latency period. (4) studying multiple outcomes from a single intervention/exposure	
	A. (1) only B. (2) only C. (1) and (3) only	

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D. (2) and (4) onlyE. (1), (2) and (3) only