

Anesthesiology Rounds
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Preventing perioperative myocardial ischemia
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Objectives:

- To understand the pathophysiology of perioperative myocardial ischemia.
- To see the connection between the patient's condition, type of surgery, and sympathetic nervous system activation associated with surgical trauma in the etiology of a perioperative coronary event.
- To assess the indications for preoperative coronary revascularization measures, particularly coronary angioplasty, with or without placement of a coronary stent.
- To understand strategies for preventing myocardial ischemia during the pre-, per-, and postoperative period.

Questions (Only 1 response is correct)

1. When is it safe to proceed with noncoronary surgery in a patient who has undergone revascularization via angioplasty and placement of a coronary stent?
 - a. The next day or as soon as possible.
 - b. Wait at least 2 months, thus avoiding the restenosis period.
 - c. Four to 6 weeks later, or more precisely, when antiplatelet treatment has ended.
 - d. When the cardiologist consents to the procedure.
2. What agent has proven to be effective in preventing perioperative ischemia?
 - a. Nitroglycerin
 - b. Vasopressin
 - c. Beta-blockers
 - d. Calcium channel blockers

3. Which of the following statements is false?
- a. Preventing peroperative hypothermia is more effective as an anti-ischemic measure than nitroglycerin administered prophylactically.
 - b. The early detection of peroperative ischemia definitely decreases perioperative cardiovascular morbidity.
 - c. If a patient has an acute coronary event, it is extremely important to begin treatment quickly with aspirin and beta-blockers, even in the absence of Q-waves on ECG and despite the potential risk of bleeding and bronchospasm.
4. Which factor is most important when developing a strategy to reduce the incidence of perioperative ischemia?
- a. The patient's history and cardiovascular condition
 - b. The type of surgery
 - c. The inflammatory response and postoperative sympathetic nervous system activation
 - d. All of the above

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