

Anesthesiology Rounds
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**Anesthesia for off-pump coronary artery bypass graft (OPCABG) surgery:
Experience at the Montreal Heart Institute**

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Objectives:

- To present the advantages and disadvantages of OPCABG surgery as compared to traditional CABG surgery using cardiopulmonary bypass
- To understand the mechanisms of hemodynamic changes during OPCABG surgery
- To provide an anesthetic regimen compatible with the goals of early extubation and hemodynamic stability.

Questions (only 1 answer is correct)

1. Compared to traditional CABG surgery using cardiopulmonary bypass, which of these documented advantages of OPCABG surgery is not accurate?
 - a) reduced operative mortality in elderly patients (>80-years-old)
 - b) improved cognitive outcome at 3 months
 - c) increased inflammation during the first week following surgery
 - d) lower costs
2. Which of the following is a possible etiology of hemodynamic instability during OPCABG surgery?
 - a) myocardial ischemia with pulmonary hypertension
 - b) cardiac compression
 - c) ischemic mitral regurgitation
 - d) all of these
3. Regarding systolic dysfunction, which of the following statements is not true?
 - a) It is associated with low cardiac output.
 - b) It is associated with low central venous pressure.
 - c) It is associated with high pulmonary artery pressure.
 - d) Transesophageal echocardiography (TEE) can be helpful for the diagnosis.

4. Regarding myocardial ischemia during OPCABG surgery, which of the following statements is not true?

- a) Mobilization of the heart may decrease the value of electrocardiographic monitoring
- b) Because of the mobilization of the heart, TEE cannot contribute to its diagnosis
- c) To limit its effects, it is recommended to proceed first with the dominant coronary lesion
- d) Leads II and V5 are most often used during surgery

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