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Myocardial protection in cardiac surgery: a comprehensive review of current therapies and future cardioprotective strategies

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Cardiac surgery with cardiopulmonary bypass results in global myocardial ischemia–reperfusion injury, leading to significant postoperative morbidity and mortality. Although cardioplegia is the cornerstone of intraoperative cardioprotection, a number of additional strategies have been identified. The concept of preconditioning and postconditioning, despite its limited direct clinical application, provided an essential contribution to the understanding of myocardial injury and organ protection. Therefore, physicians can use different tools to limit perioperative myocardial injury. These include the choice of anesthetic agents, remote ischemic preconditioning, tight glycemic control, optimization of respiratory parameters during the aortic unclamping phase to limit reperfusion injury, appropriate choice of monitoring to optimize hemodynamic parameters and limit perioperative use of catecholamines, and early reintroduction of cardioprotective agents in the postoperative period. Appropriate management before, during, and after cardiopulmonary bypass will help to decrease myocardial damage. This review aimed to highlight the current advancements in cardioprotection and their potential applications during cardiac surgery.

KEYWORDS

cardiac surgery, ischemia–reperfusion injury, myocardial protection, preconditioning, postconditioning

1 Introduction

Cardiac surgery with cardiopulmonary bypass (CPB) includes an expected ischemia–reperfusion (I/R) sequence, leading to myocardial injury and significant postoperative morbidity and mortality. The unavoidable and sustained elevation of postoperative serum troponin is multifactorial because of direct surgical trauma, systemic inflammation, and reversible ischemia or irreversible necrosis. Its short- and long-term prognosis value has been validated for years (1–3). Irrespective of the surgical procedure itself, the early or late elevation of peak serum troponin I has probably a distinct meaning, with a pejorative value in cases of elevation beyond the 24th postoperative hour (4, 5). A large prospective cohort study recently demonstrated that threshold values of hypersensitive troponin I above 5,670 ng/L on postoperative day 1 after coronary artery bypass grafting (CABG) or aortic valve surgery and above 12,981 ng/L following other cardiac surgeries were associated with increased mortality at day 30 (6). A whole literature on myocardial protection techniques during cardiac surgery has therefore emerged. While cardioplegia remains the cornerstone of intraoperative cardioprotection, the lack of consensus

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