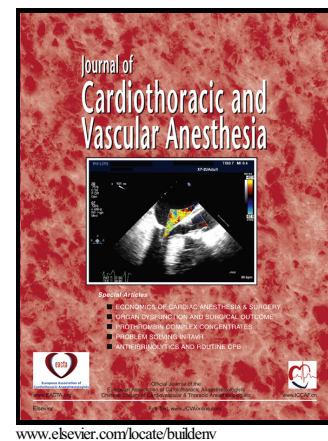


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**Mechanical ventilation during cardiopulmonary bypass: a review**

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**Introduction**

Despite progress in perioperative management, postoperative pulmonary complications (PPCs) are still a leading cause of morbidity and mortality in cardiac surgery. About 25% of patients with no severe cardiac dysfunction that undergo cardiac surgery experience significant respiratory impairment for at least one week after the intervention [1]. Post-cardiac surgery PPCs clinically range from fever with productive cough to acute respiratory distress syndrome (ARDS), requiring prolonged mechanical ventilation (MV) and showing reduced survival [2-4]. Cardiopulmonary bypass (CPB) is necessary for the majority of procedures in cardiac surgery, making CPB-related lung damage inevitable. Inflammatory response following CPB, exclusion of lung tissue from

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