

Special Issue

Current Perspectives and Emerging Trends in Cardiothoracic Surgery

Message from the Guest Editors

Cardiothoracic surgery is undergoing rapid transformation, shaped by minimally invasive techniques, novel perioperative strategies, and technological innovation. In thoracic surgery, non-intubated and spontaneous ventilation approaches are emerging as promising alternatives, supported by regional anesthesia to further reduce surgical trauma. In cardiac surgery, minimally invasive procedures are steadily expanding, improving recovery and broadening treatment possibilities. Chronic comorbidities such as diabetes and COPD remain key factors affecting patients undergoing cardiopulmonary bypass (CPB). Meanwhile, extracorporeal life support (ECLS) is playing an increasingly central role not only in post-cardiotomy care but also in the management of severe perioperative complications and refractory cardiopulmonary failure, making it one of the most dynamic and rapidly expanding fields in modern perioperative and critical care. In this Special Issue, we welcome authors to submit papers on the clinical advances of cardiothoracic surgery, with particular focus on minimally invasive techniques, perioperative strategies, and innovative critical care approaches.

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