

Special Issue

Minimally Invasive Surgery: Challenges and Solutions in Clinical Practice

Message from the Guest Editors

Minimally invasive approaches (first laparoscopic and then robotic) have revolutionized modern surgical practice, offering patients effective alternatives with reduced postoperative pain, shorter hospital stays, and faster recovery times. Despite these benefits, minimally invasive procedures come with distinct challenges, including steep learning curves, technical limitations, and complex intraoperative decision-making. This Special Issue will explore the multifaceted challenges associated with robotic and laparoscopic surgery and provide evidence-based solutions to optimize clinical outcomes. The scope includes advancements in surgical training methodologies, the incorporation of robotic assistance and artificial intelligence, innovations in technical instrumentation, and strategies for managing intraoperative complications. Through a collection of original research articles and reviews, this Special Issue will serve as a comprehensive resource for surgeons, educators, and researchers striving to overcome barriers and elevate standards in robotic and laparoscopic surgery worldwide.

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