Special Issue

Advances in Laparoscopic Surgery

Message from the Guest Editors

This Special Issue aims to provide a comprehensive overview of recent advances in laparoscopic surgery, spanning technical innovations, novel clinical applications, training models, and outcome-based research. In particular, we will focus on laparoscopic approaches applied to gynecological diseases, including both benign conditions—such as endometriosis and uterine fibroids—and oncological pathologies. Contributions addressing the laparoscopic management of complex pelvic anatomy, fertilitysparing procedures, or oncologic staging are highly encouraged, with an emphasis on state-of-the-art technologies such as 3D and robotic-assisted laparoscopy, fluorescence-guided surgery, augmented reality, artificial intelligence integration, and enhanced recovery protocols. Additionally, we welcome studies exploring synergistic techniques that integrate endoscopic approaches—such as hysteroscopy or intraoperative ultrasound—with laparoscopic or robotic platforms to enhance surgical accuracy and safety in challenging anatomical scenarios, as well as research evaluating clinical outcomes, learning curves, and costeffectiveness of these strategies.

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