

Special Issue

Research on Anesthesiology in Laparoscopic Surgery

Message from the Guest Editors

The laparoscopic (including robotic) approach has become a standard of care for many abdominal or thoracic surgical procedures. Compared to laparotomy, laparoscopy allows for smaller incisions, reduces the perioperative stress response and the postoperative pain, and results in a shorter recovery time. Anesthetic concerns for patients undergoing laparoscopic and robotic surgery differ from those for patients undergoing open abdominal surgery. Laparoscopy requires insufflation of intraperitoneal or extraperitoneal gas, usually carbon dioxide (CO₂), to create space for visualization and surgical maneuvers. The generation of a pneumoperitoneum, absorption of CO₂, and positioning required for surgery induce significant physiological changes in the lungs and heart, which must be evaluated and treated. Complications may be challenging, and all hospitals undertaking laparoscopic/robotic surgery should have protocols to ensure that staff can recognize and rapidly act upon deteriorating patients after an operation. We invite colleagues worldwide to submit their research, reviews, and case reports.

Guest Editors

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