



Advancing Care: The Roles of Minimally Invasive Surgery in Modern 爛

outcomes. Urological Surgery Prostatectomy and nephrectomy are increasingly performed using MIS, offering reduced blood loss and shorter catheterization periods. Cardiothoracic Surgery Even in complex procedures like coronary artery bypass surgery and lung resection, MIS approaches lead to decreased postoperative pain and faster return to normal activities. Orthopedic Surgery Arthroscopic techniques are used for joint surgeries, minimizing tissue damage and improving recovery in cases like knee and shoulder repairs.

Technological advancements

Robotic-Assisted Surgery Robotic systems like the da Vinci Surgical System enable surgeons to perform precise movements with enhanced dexterity, resulting in better outcomes and reduced surgeon fatigue. Advanced Imaging Intraoperative imaging technologies, such as fluorescence-guided surgery, improve tumor resection. Robotic-Assisted Surgery Robotic systems like the da Vinci Surgical System enable surgeons to perform precise movements with enhanced dexterity, resulting in better outcomes and reduced surgeon fatigue. Advanced Imaging Intraoperative imaging technologies, such as fluorescence-guided surgery, improve tumor resection.

