OPINION ARTICLE Colorectal Surgery: Advancements and Techniques for Optimal Patient Care

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ARTICLE HISTORY

Received: 26-May-2023, Manuscript No. EJMACES-23-104525; Editor assigned: 29-May-2023, PreQC No. EJMACES-23-104525 (PQ); Reviewed: 13-Jun-2023, QC No. EJMACES-23-104525; Revised: 20-Jun-2023, Manuscript No. EJMACES-23-104525 (R); Published: 27-Jun-2023

Description

Colorectal surgery, also known as colorectal resection or bowel surgery, is a specialized surgical procedure aimed at treating various conditions affecting the colon, rectum, and anus. It encompasses a wide range of surgical interventions, from minimally invasive procedures to complex operations, with the ultimate goal of improving patient outcomes and quality of life. This article discusses about the advancements and techniques in colorectal surgery that have revolutionized the field and enhanced patient care.

A branch of medicine called colorectal surgery treats conditions affecting the colon, rectum, and anus. Proctology is another name for the discipline, however it is no longer commonly used in medicine and is more typically used to refer to procedures that specifically affect the anus and rectum.

Haemorrhoids, diverticulitis, and cancer are just a few of the lower digestive tract diseases that can be treated by a variety of surgical procedures known as colorectal surgery. Robotic, laparoscopic, or minimally invasive techniques can be used to complete a wide range of treatments.

Minimally invasive approaches

Over the past decades, minimally invasive techniques, such as laparoscopic and robotic-assisted surgery, have gained prominence in colorectal surgery. These approaches involve smaller incisions, reduced tissue trauma, and faster recovery times compared to traditional open surgery. Laparoscopic and robotic-assisted surgeries offer enhanced visualization and precision, allowing surgeons to perform complex procedures with increased accuracy and improved patient outcomes.

Enhanced recovery after surgery programs

Colorectal surgery is often associated with a significant physical and metabolic stress response, leading to prolonged hospital stays and postoperative complications. To address these challenges, Enhanced Recovery After Surgery (ERAS) programs have been implemented. ERAS protocols encompass a multidisciplinary approach that involves preoperative, intraoperative, and postoperative interventions aimed at optimizing patient preparation, pain management, nutrition, and early mobilization. By implementing ERAS programs, patients experience reduced hospital stays, fewer complications, and faster recovery.

Transanal total mesorectal excision

Transanal Total Mesorectal Excision (TaTME) is an innovative surgical technique that has gained attention in recent years for the treatment of rectal cancer. TaTME combines transanal endoscopic surgery with laparoscopic or robotic assistance, allowing surgeons to achieve optimal visualization and dissection of the rectum. This technique offers improved precision in removing tumors and preserving sphincter function, resulting in better oncological outcomes and reduced rates of complications.

Local excision techniques

For certain early-stage rectal tumors, local excision techniques such as Transanal Endoscopic Microsurgery (TEM) or Transanal Minimally Invasive Surgery (TAMIS) can be employed. These techniques involve the removal of the tumor through the anus, avoiding the need for extensive resection. Local excision techniques offer a less invasive alternative to radical surgery, with reduced morbidity and improved functional outcomes for select patients.

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Pelvic floor reconstruction: In cases where patients require removal of the rectum or anus, reconstructive procedures are crucial to restore normal bowel function and maintain quality of life. Pelvic floor reconstruction techniques, such as coloanal or ileoanal anastomosis, aim to create a functioning reservoir for stool and preserve continence. These procedures require careful planning and individualized approaches to ensure optimal functional outcomes for each patient.

Colorectal surgery has witnessed remarkable advancements and techniques that have significantly improved patient care and outcomes. From minimally invasive approaches and ERAS programs to innovative techniques like TaTME and local excision, surgeons now have a broader range of options to tailor treatment plans to individual patients. These advancements, coupled with ongoing research and multidisciplinary collaboration, continue to shape the field of colorectal surgery, promising a future of improved surgical techniques, enhanced recovery, and better quality of life for patients.