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Role of Minimally Invasive Surgery for Rectal Cancer



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As part of the University of Cincinnati **Cancer Institute (UCCI)**, our colon and **rectal surgery** team specializes in **minimally invasive surgical** procedures, including small incision **rectal cancer surgery** where the cancerous tissue is removed via an incision between the patient's legs and eliminates the need for a large incision into the abdomen.

[Colon & Rectal Surgery | UC Health](http://www.uchealth.com/services/colon-rectal-surgery/)
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Ongoing randomized studies will provide additional insight into the role of laparoscopic and **minimally invasive robotic surgery** for rectal cancer. History of Robotic Surgery Since the introduction of robotic surgery in 1985 when a robotic flexible arm (PUMA 560) was used to orient a needle for a brain biopsy, there has been extensive research on and growth in the use of **robot-assisted surgery**.

Cited by: 5 Author: David S Kwon, George J Chang
Publish Year: 2011

The role of the robotic technique in minimally invasive ...

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Laparoscopic surgery in rectal cancer. A minimally invasive approach to TME has been shown to be feasible and oncologically safe in several trials, the two largest being the CLASICC trial, which recruited colon and rectal cancer patients, and the COREAN trial, which recruited **rectal cancer** patients only. There was some concern about the higher rate of circumferential resection margin (CRM) involvement among **rectal cancer patients** ...

Cited by: 11 Author: Paolo Pietro Bianchi, Fabrizio Luca, Wanda ...
Publish Year: 2013

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<https://ecancer.org/en/journal/article/357-the-role-of-the-robotic-technique-in-...>

Bianchi Paolo Pietro, Luca Fabrizio, Petz Wanda, Valvo Manuela, Cenciarelli Sabine, Zuccaro Massimiliano, Biffi Roberto (2013) The role of the robotic technique in minimally invasive surgery in rectal cancer *ecancer* 7 357

Cited by: 11 Author: Paolo Pietro Bianchi, Fabrizio Luca, Wanda ...
Publish Year: 2013

Recent advances in the management of rectal cancer: No ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5483413>

Jun 27, 2017 · Transanal minimally invasive surgery (TAMIS) for local excision of benign neoplasms and early-stage **rectal cancer**: efficacy and outcomes in the first 50 patients. *Dis Colon Rectum*...

Cited by: 6 Author: Joseph M Plummer, Pierre-Anthony Leake, ...
Publish Year: 2017

The role of anesthesia in cancer surgery – a potential ...

<https://centerforsurgicalscience.dk/da/articles/anesthesia->

Anesthesia and surgery are fundamental in curable cancer treatment. More than 80% of cancer patients are estimated to benefit from surgery. Since the mid-19th century, when general anesthesia was introduced, surgery has evolved from being a last resort to becoming a strategic, **minimally invasive** ...

Minimally Invasive Surgery - Colon & Rectal Surgery Associates

[www.colonrectal.org/services.cfm/sid:7525/...](http://www.colonrectal.org/services.cfm/sid:7525/)

Transanal endoscopic microsurgery (TEM) and **transanal minimally invasive surgery (TAMIS)** are similar techniques that allow surgeons to remove benign polyps and early stage **cancers** ...

Minimally invasive surgery and cancer: controversies part 1

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2814196>

Minimally Invasive surgery offers several potential benefits for patients with **esophageal cancer**. Esophagectomy is associated with significant morbidity and mortality rates [129 , 130]. The risks associated with open esophagectomy have led to increasing interest among oncologists for treating patients with definitive chemoradiation alone [131 , 132].

Cited by: 27 Author: Melanie Goldfarb, Steven Brower, S. D. Sch...
Publish Year: 2010

Transanal minimally invasive surgery (TAMIS): new ...

<https://www.ncbi.nlm.nih.gov/pubmed/25760203>

Transanal **minimally invasive surgery (TAMIS)**: new treatment for early rectal cancer and large **rectal polyps**—experience of an Italian center. Maglio R(1), Muzi GM, Massimo MM, Masoni L. Author information: (1)Department of Surgery, S. Andrea Hospital, University of Rome, "Sapienza" Faculty of Medicine, Rome, Italy.

Cited by: 20 Author: Maglio R, Muzi Gm, Massimo Mm, Masoni L
Publish Year: 2015

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Role of minimally invasive surgery for rectal cancer



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The main role of the treatment is to **reduce the chance of cancer recurrence** when the surgeon is unable to remove the optimal amount of healthy tissue around the tumor. IORT is used to treat advanced rectal cancer, as well as some cases of recurrent rectal cancer.

[Rectal cancer - Care at Mayo Clinic - Mayo Clinic](#)

www.mayoclinic.org/diseases-conditions/rectal-cancer/care-at-mayo-clinic/mac-...

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The Role of Minimally Invasive Surgery and Outcomes in ...

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Studies of **robotic rectal resection** have suggested similar or potentially improved short-term oncologic outcomes when compared with laparoscopic rectal resection. Ongoing randomized studies will provide additional insight into the role of laparoscopic and minimally invasive robotic surgery for rectal cancer.

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Author: David S Kwon, George J Chang

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Author: Paolo Pietro Bianchi, Fabrizio Luca, Wan...

Publish Year: 2013

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<https://www.thepermanentejournal.org/issues/2011/...>

Ongoing randomized studies will provide additional insight into the **role** of laparoscopic and **minimally invasive robotic surgery for rectal cancer**. *History of Robotic Surgery*. Since the introduction of robotic

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 55712

Manuscript Type: MINIREVIEWS

Role of minimally invasive surgery for rectal cancer

Melstrom KA *et al.* Minimally invasive surgery for rectal cancer

Kurt A Melstrom, Andreas M Kaiser

Abstract

Rectal cancer is one of the most common malignancies worldwide. Surgical resection for rectal cancer usually requires a proctectomy with respective lymphadenectomy (total mesorectal excision). This has traditionally been performed transabdominally through an open incision. Over the last thirty years, minimally invasive surgery platforms have rapidly evolved with the

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The aim of this review is to **summarise the current data on clinical and oncological outcomes of minimally invasive** surgery in rectal cancer, focusing on robotic surgery, and providing original data from the authors' centre. Keywords: **rectal cancer, total mesorectal excision, laparoscopic surgery, robotic surgery.**

Cited by: 13

Author: Paolo Pietro Bianchi, Fabrizio Luca, Wa...

Publish Year: 2013

Minimally invasive surgery - Doctors & Departments - Mayo ...