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How robotics is changing (and will change) the field of Colorectal Surgery



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Including results for how robotics is **change** and will change the field of colorectal surgery.

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Use of Robotics in Colon and Rectal Surgery

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3699138>

Use of **Robotics** in Colon and Rectal **Surgery**: State of the Art. The pace of **change** in the **field** of **surgery** continues to accelerate, and many concepts that were deemed "futuristic" only 10 years ago will now be realized within most of our lifetimes.

Cited by: 13

Author: Michael J. Pucci, Alec C. Beekley

Publish Year: 2013

The role of robotics in colorectal surgery | The BMJ

<https://www.bmj.com/content/360/bmj.j5304> ▾

Feb 12, 2018 · **Robotic surgery** has been used in most surgical **fields**, including gynecology, urology, cardiothoracic **surgery**, general **surgery**, surgical oncology, bariatric **surgery**, and **colorectal surgery**. Many procedures such as hysterectomies, prostatectomies, hernia repairs, cholecystectomies, and colectomies have been performed with **robotics**.

Cited by: 4

Author: Christina L Cheng, Craig Rezac

Publish Year: 2018

Robotics in Colorectal Surgery - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5040148>

Sep 26, 2016 · Advances in **robotic colorectal surgery** are limited by the speed of technological discovery and the willingness of surgeons to adapt to these new devices and procedures. New **robotic** technologies could become the future of **surgery** with cheaper systems and new developments such as haptic and tactile sensing technology, miniature in vivo **robots** ...

Cited by: 3

Author: Allison Weaver, Scott Russell Steele

Publish Year: 2016

Use of Robotics in Colon and Rectal Surgery | Request PDF

https://www.researchgate.net/.../259771690_Use_of_Robotics_in_Colon_and_Rectal_Surgery

Use of **Robotics** in Colon and Rectal **Surgery**. ... several manuscripts in the **field** of **robotic colorectal** resections were analyzed and the ... but in an itemized analysis of the **change** in erectile ...

검색결과 약 4,910,000개 (0.57초)

🔗 <https://www.ncbi.nlm.nih.gov/pmc/PMC5040148> ▾ 이 페이지 번역하기

Robotics in Colorectal Surgery - NCBI

A Weaver 저술 - 2016 - 8회 인용 - 관련 학술자료

2016. 9. 26. - The incorporation of **robotics** into a minimally invasive **surgery** platform is the newest advancement and has the potential to **change** the medical **field** even more drastically with the minimization—and possible elimination—of human error.

관련 질문

How has robotic surgery improved surgery? ▾

What is robotic colorectal surgery? ▾

Is robotic hip replacement better? ▾

What is the advantage of robotic surgery? ▾

사용자 의견

🔗 <https://www.ncbi.nlm.nih.gov/pmc/PMC4770168> ▾ 이 페이지 번역하기

Overview of robotic colorectal surgery: Current and future practical ...

S Roy 저술 - 2016 - 12회 인용 - 관련 학술자료

2016. 2. 27. - Advances in **robotic colorectal surgery** will aim to widen the scope of still further and these **fields** may be particularly suited to **robotic** augmentation. in response to a **change** in

Name of Journal: *World Journal of Gastrointestinal Surgery*

Manuscript NO: 48695

Manuscript Type: EDITORIAL

How robotics is changing and will change the field of colorectal surgery

Koerner C *et al.* How robotics is changing CRS

Crystal Koerner, Seth Alan Rosen

Abstract

During the last decade there has been a significant upward trend in colon and rectal minimally invasive surgery which can be attributed largely to the acceptance of robotic surgery platforms such as the da Vinci® robotic system. The fourth generation da Vinci® system, introduced in 2014, includes integrated table motion, intelligent laser targeted docking and more sophisticated instrumentation and imaging. These developments have enabled more surgeons to efficiently and safely perform multi-quadrant operations. Firefly® technology allows assessment of colon perfusion and identification of ureters, and has shown potential in detecting occult recurrence or metastasis using molecular-labelled tumor markers. Wristed instrumentation has increased the technical ease of intracorporeal anastomosis (ICA) for many surgeons, leading to more common use of ICA during right colectomy. Advanced imaging has shown potential to decrease the incidence of presacral nerve injury and improve urogenital outcomes after pelvic surgery, as has been the case in robotic urologic procedures. Finally, the robotic platform lends itself to surgical simulation for surgical trainees, as a pre-operative tool for mock operations and as an ongoing assessment tool for established colorectal surgeons. Given these advantages, surgeons should anticipate continued and increased utilization of this beneficial technology.

Match Overview

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Overview of robotic colorectal surgery: Current and future ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4770168>

Feb 27, 2016 · The breadth of **robotic** advancement considered in this review demonstrates that **robotic colorectal surgery** has advanced far beyond its original brief of **surgeon** assistance. The potential advancements within this **field will allow** utilisation of minimal access **surgery** in a wider range of increasingly technically challenging environments and **could** fundamentally **change** the way **surgeons** ...

Cited by: 7

Author: Sudipta Roy, Charles Evans

Publish Year: 2016

Surgery With Robots: Helping Doctors, Patients

<https://www.healthline.com/health-news/how-robotic-surgery-is-helping-patients-doctors> ▾

Apr 13, 2018 · In **urology**, **robotic surgery** is now commonly used for **cancers** that **could** previously only be treated with open **surgery**. "During the past 10 years, **robotic surgery** has facilitated a **change** ...

Author: Elizabeth Pratt

(PDF) New Trends in Robotic Colorectal Surgery

https://www.researchgate.net/.../274551320_New_Trends_in_Robotic_Colorectal_Surgery

Robotic surgery is an emerging **field** in **colorectal surgery** and may overcome the limitations of conventional laparoscopic **surgery**, such as rigid instrumentation, poor ergonomics, and assistant ...

Learn More About the Soft Robots that Are Changing the ...

<https://www.discovery.com/technology/soft-robotics> ▾

Adding to the menagerie are a leech-like **robot** that can climb walls, a **robotic limb** that can **change shape** between a turtle's flipper for moving through water, and a tortoise's leg for walking on land. This ability of soft **robots to flex** into different shapes is enabled by often simple architectures.

Author: Robin Fearon