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Observational Study

Robotic *vs* laparoscopic right colectomy - the burden of age and comorbidity in perioperative outcomes: An observational study

Tagliabue F *et al.* Early outcomes in robotic right colectomy

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Abstract

BACKGROUND

Several studies have shown the safety, feasibility and oncologic adequacy of the robotic right hemicolectomy (RRH). Laparoscopic right hemicolectomy (LRH) is considered technically challenging. Robotic surgery has been introduced to overcome this technical limitation, but it is related to high costs. To maximize the benefits of such surgery, only selected patients are routinely candidate to it. At the same time, due to the progressive aging of the population, an increasing number of minimally invasive procedures are performed on elderly patients with severe comorbidities, which are usually more prone to post-operative complications.

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Robotic versus laparoscopic right colectomy with ...

https://www.researchgate.net/publication/327899797_Robotic_versus_laparoscopic_right...

This **study** aimed to compare the learning curve of **robotic**-assisted **right colectomy** (RRC) **versus laparoscopic**-assisted **right colectomy** (LRC) for colon cancer with respect to ...

Robotic Versus Laparoscopic Colorectal Surgery

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4254480>

Three articles further subdivided patients into 2 groups each, on the basis of the type of colorectal procedure. 16,18,22 For example, Deutsch et al 16 included 171 patients in total, 65 who underwent **right colectomy** (47 **laparoscopic**, 18 **robotic**) and 106 who underwent left **colectomy** (45 **laparoscopic**, 61 **robotic**). As a result, our **study** ...

Short-term outcomes of robotic-assisted right colectomy ...

<https://www.sciencedirect.com/science/article/pii/S1015958418306092>

After examining other colorectal diseases, we were convinced that a meta-analysis of the short-term **outcomes** of **robotic**-assisted **right colectomy** (RRC) compared to those of **laparoscopic right colectomy** (LRC) in cases of **right** colon cancer was necessary. 5

Cited by: 6

Author: Shixun Ma, Yan Chen, Yifeng Chen, Ti...

Publish Year: 2019

Robotic-Assisted Versus Laparoscopic Colectomy: Cost and ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4035631>

The **outcomes** of interest were hospital cost of **laparoscopic robotic**-assisted **colectomy** compared with traditional **laparoscopic colectomy**, surgery time, adverse events, and length of stay. Results: Of 25 758 **laparoscopic** colectomies identified, 98% were performed without **robotic** assistance and 2% were performed with **robotic** assistance.



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Robotic versus laparoscopic right colectomy: a meta-analysis

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4158068>

Aug 28, 2014 · Studies have revealed the feasibility and safety of both **robotic right colectomy** (RRC) [2, 3] and **laparoscopic right colectomy** (LRC) [4, 5]. There are several studies comparing the outcomes of RRC against standard LRC, but no meta-analyses have been conducted to compare and integrate the results of these studies.

Cited by: 34

Author: Huirong Xu, Jianning Li, Yanlai Sun, Ze...

Publish Year: 2014

Perioperative Outcomes and Trends in the Use of Robotic ...

<https://jamanetwork.com/journals/jamasurgery/fullarticle/2752567> ▾

Jan 01, 2020 · Recognizing the substantial added cost of **robotic surgery** 19 (25% higher and up to \$3000 more expensive than **laparoscopic colectomy**), these findings also question the relative **benefits of robotic colectomy**, in that outcomes are only modestly better than **open surgery**, and **robotic procedures** primarily replaced **laparoscopic operations** with equivalent outcomes.

Cited by: 1

Author: Kyle H. Sheetz, Edward C. Norton, Jus...

Publish Year: 2020

Robotic-Assisted Versus Laparoscopic Colectomy: Cost and ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4035631>

Hospital costs were substantially higher for **robotic-assisted laparoscopic colectomy** than for procedures without **robotic assistance** (\$17 445 vs \$15 448, P = .001). Table 5. **Hospital Costs**, Surgery Time, and Length of Stay After Matching

Robotic Versus Laparoscopic Right Colectomy with Complete ...

https://www.researchgate.net/publication/327676129_Robotic_Versus_Laparoscopic_Right...

The total mean cost of robotic right colectomy was **11,576 ± 1915 € vs. 6196 ± 1444 €** for laparoscopic right colectomy.



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Jan 01, 2020 · Recognizing the substantial added cost of **robotic surgery** 19 (25% higher and up to \$3000 more expensive than **laparoscopic colectomy**), these findings also question the relative **benefits of robotic colectomy**, in that outcomes are only modestly better than **open surgery, and robotic procedures** primarily replaced **laparoscopic operations** with equivalent outcomes.

Cited by: 1

Author: Kyle H. Sheetz, Edward C. Norton, Justin...

Publish Year: 2020

[Is Minimally Invasive Colon Resection Better Than ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4036435>

To compare the **perioperative outcomes** and costs of **robot-assisted colectomy (RC)**, **laparoscopic colectomy (LC)**, and open **colectomy (OC)**. DESIGN, SETTING, AND PARTICIPANTS The US Nationwide Inpatient Sample database was used to examine **outcomes** and costs before and after propensity score matching across the 3 surgical approaches.

Cited by: 100

Author: Yen Yi Juo, Omar Hyder, Adil H. Haider, ...

Publish Year: 2014

[Robotic-Assisted Versus Laparoscopic Colectomy: Cost and ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4035631>

Eligible patients were **aged** ≥ 18 years and had undergone a **laparoscopic colectomy** during the period from 2009 to the second quarter of 2011. Patients were categorized according to the following 4 types of **laparoscopic segmental colectomies**: **laparoscopic cecectomy** (17.32), **laparoscopic right hemicolectomy** (17.33),...

[Robotic versus laparoscopic right colectomy with ...](#)

<https://www.researchgate.net/publication/327899797...>

Robotic versus laparoscopic right colectomy with intracorporeal **anastomosis**: a multicenter comparative analysis on short-term **outcomes** Article (Online only ...