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Manuscript Type: ORIGINAL ARTICLE

Observational Study

Evaluation of the characteristics of left-sided colorectal perfusion in elderly patients with angiography

Chao Zhang, Ang Li, Tao Luo, Yu Li, Fei Li, Jia Li

Abstract

BACKGROUND

Handling of the inferior mesenteric artery (IMA) and maintaining anastomotic perfusion is important in radical resection of left-sided colorectal cancer. However, the branching of this artery and the drainage patterns of this vein vary among individuals, and the characteristics and perfusion region of this artery in elderly patients remain unclear.

Match Overview

1	Crossref 109 words Murono, Koji, Kazushige Kawai, Shinsuke Kazama, Soichiro Ishihara, Hironori Yamaguchi, Elji Sunami, Joji Kitayama, an	3%
2	Crossref 107 words Al-Asari, Sami F., Daero Lim, Byung Soh Min, and Nam Kyu Kim. "The Relation between Inferior Mesenteric Vein Ligatio	3%
3	Crossref 50 words Lange, J.F., "Riolan's arch: confusing, misnomer, and obsole te. A literature survey of the connection(s) between the sup...	1%

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Author: Paola De Nardi, Ugo Elmore, Giulia Mag...

Publish Year: 2020

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PINPOINT is a safe and feasible tool for **intraoperative assessment** of **tissue perfusion** during **colorectal resection**. There were no **anastomotic leaks** in patients in whom the **anastomosis** was revised based on **inadequate perfusion** with FA.

Cited by: 247

Author: Mehraneh D. Jafari, Steven D. Wexner, J...

Publish Year: 2015

Fluorescence angiography in laparoscopic low rectal and ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/codi.13033>

Sep 23, 2015 · Left sided colon and rectal resections for cancer 46% (25% for **rectal cancer**) **Bowel perfusion assessed** at point of **proximal bowel transection (serosal surface)** and at completion of anastomosis intra luminally. Change of site of division on basis of angiography recorded. **Air leak test** performed. FA successful in 98.6% of cases

Cited by: 17

Author: D. R. C. James, Frédéric Ris, T. M. Yeun...

Publish Year: 2015

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Cited by: 247

Author: Mehraneh D. Jafari, Steven D. Wexner, Jose...

Publish Year: 2015

The impact of indocyanine-green fluorescence angiogram on ...

https://www.ncbi.nlm.nih.gov/pubmed/30195865

Indocyanine-green fluorescence angiogram allows objective bowel **perfusion** assessment. This study aimed to investigate the impact of **perfusion** assessment on intraoperative decision during left-sided **colorectal** resections. METHOD: This was a prospective, single-centre, observational study recruiting **patients** with left-sided **colorectal** resections.

Cited by: 4

Author: Paola De Nardi, Ugo Elmore, Giulia Maggi, ...

Publish Year: 2020

Intraoperative angiography with indocyanine green to ...

https://link.springer.com/10.1007/s00464-019-06730-0

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Cited by: 4

Author: Paola De Nardi, Ugo Elmore, Giulia Maggi, ...

Publish Year: 2020

Quantitative analysis of colon perfusion pattern using ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6484815

Sep 10, 2018 · Characteristics of patients. The mean age of the patients was 65.4 years, and the male-to-female ratio was 63:23. **Laparoscopic low anterior resection** (55 cases) and **laparoscopic anterior resection** (31 cases) were performed. Six of the 86 (7%) patients with colorectal cancer had major anastomotic complications requiring invasive treatment.

Cited by: 8

Author: Gyung Mo Son, Myeong Sook Kwon, Yoonh...

Publish Year: 2019

Intraoperative real-time fluorescence angiography with ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6108096

The **intraoperative evaluation of the bowel perfusion** following **hernia reduction** with regard to the need for resection of **ischaemic bowel** can be challenging. In this case report we discuss **intraoperative fluorescence angiography** with indocyanine green (ICG) as an objective means of accessing **bowel perfusion** following **hernia reduction**.

Cited by: 1

Author: Dimitra Daskalopoulou, Joseph Kankam, J...

Publish Year: 2018

The Risk Factor of Anastomotic Hypoperfusion in Colorectal ...

https://www.sciencedirect.com/science/article/pii/S0022480419304469

Previous studies demonstrated that fluorescence **angiography** in **colorectal** surgery resulted in a change in the planned transection line (5% to 40%) and reduction of AL (4% to 7%).10, 11, 24 Kudsus et al. reported that fluorescence **angiography** shortened hospital stays and reduced revision in elective resections and **patients** older than 70 y. 12 ...

Author: Takayuki Ogino, Tomoki Hata, Junji Ka...

Publish Year: 2019

Near-infrared (NIR) perfusion angiography in minimally ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4065377

The **perfusion angiogram** clearly shows **perfusion** along the antimesocolic border of the **colon proximal** to the **anastomosis** for **left-sided operations** and distal to the **anastomosis** for **right-sided resections**.

Cited by: 130

Author: Frederic Ris, Frederic Ris, Roel Hompes, Ch...

Publish Year: 2014

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<https://www.hindawi.com/journals/mis/2019/3267217> ▾

Background . Indocyanine green fluorescent **angiography** (IcGA) has been used with success in guiding intraoperative management to prevent **colorectal** anastomotic complications. Prior studies in open and laparoscopic **colorectal** surgery, such as PILLAR II, have demonstrated a low anastomotic leak rate (1.4%). As the minimally invasive approach progresses from laparoscopic to robotic approach, the ...

Author: Emanuel Shapera, Roger W. Hsiung **Publish Year:** 2019

[Quantitative analysis of colon perfusion pattern using ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6484815>

Characteristics of patients. The mean age of the patients was 65.4 years, and the male-to-female ratio was 63:23. **Laparoscopic low anterior resection** (55 cases) and **laparoscopic anterior resection** (31 cases) were performed. Six of the 86 (7%) patients with colorectal cancer had major anastomotic complications requiring invasive treatment.

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