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Clinical role of fluorescence imaging in colorectal ...

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Areas covered: This article will review the common and novel uses for fluorophores in colorectal surgery, including **tissue perfusion for anastomotic creation, ureter identification, lymphatic mapping, and tumor localization**. Expert opinion: The versatility of this technology permeates through many aspects of colorectal procedures. The white light spectrum has historically been the only available modality to ...

Cited by: 1 Author: Amandeep Ghuman, Sandra Kavalukas, ...

Publish Year: 2020

Clinical role of fluorescence imaging in colorectal ...

<https://diagnosticgreen.com/row/news/clinical-role-of-fluorescence-imaging-in...>

The ability of the near-infrared spectrum to **penetrate biologic tissues** allows the **identification of these structures** with injection of fluorophores. The two most common intravenously utilized fluorophores are methylene blue and indocyanine green.

Near-Infrared Indocyanine Green-Enhanced Fluorescence ...

<https://www.ncbi.nlm.nih.gov/pubmed/30716160>

May 15, 2019 · Near-infrared indocyanine green (ICG)-enhanced fluorescence may be useful for **assessing microvascular deficits and conceivably preventing anastomotic leakage**.

OBJECTIVES: This paper presents a preliminary retrospective case series on robotic colorectal surgery. The aim is to evaluate the feasibility, safety and role of near-infrared ICG-enhanced fluorescence for the ...

Cited by: 2 Author: Alberto Mangano, Eduardo Fernandes, F...

Publish Year: 2019

Near-Infrared Fluorescence Imaging for Real-Time ...

<https://pubmed.ncbi.nlm.nih.gov/29106320>

Purpose: The aims of this review are to determine the feasibility of near-infrared fluorescence (NIRF) angiography in anastomotic colorectal surgery and to determine the effectiveness of the technique in improving imaging and quantification of vascularization, thereby aiding in decision making as to where to establish the anastomosis.

Cited by: 25 Author: Jacqueline van den Bos, Mahdi Al-Taher, ...

Publish Year: 2017

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Visualization and quantification of anastomotic perfusion ...

<https://pubmed.ncbi.nlm.nih.gov/31535238>

Background: Anastomotic leakage (AL) is one of the most troublesome complications in colorectal surgery. Recently, near-infrared fluorescence (NIRF) imaging has been used intraoperatively to detect sentinel lymph nodes and visualize the blood supply at the region of interest (ROI).

Cited by: 14 Author: S Hayami, K Matsuda, H Iwamoto, M Ue...



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Manuscript No: 65266

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Role of near-infrared fluorescence in colorectal surgery

Fluorescence in colorectal surgery

Elodie Zocola, Jeremy Meyer, Niki Christou, Emilie Liot, Christian Toso, Nicolas Christian Buchs, Frédéric Ris

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Role of near-infrared fluorescence in colorectal surgery



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Fluorescence-guided colorectal surgery | WebSurg, the ...

<https://websurg.com/en/doi/10.3en18953>

Oct 12, 2020 - In robotic right hemicolectomy for cancer, appropriate lymphadenectomy and anastomotic leak prevention are critical. Visualization of draining lymph nodes, of primary tumor site and blood flow using the **near-infrared (NIR) fluorescence da Vinci® imaging system** is a recent development.

Near-Infrared Fluorescence-Guided Resection of Colorectal ...

<https://www.researchgate.net/publication/241694303>