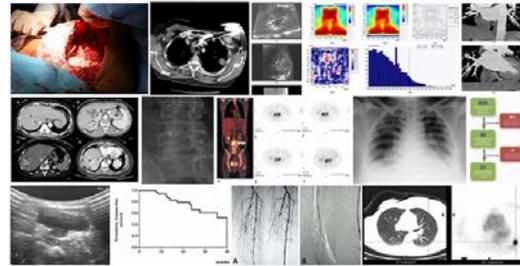


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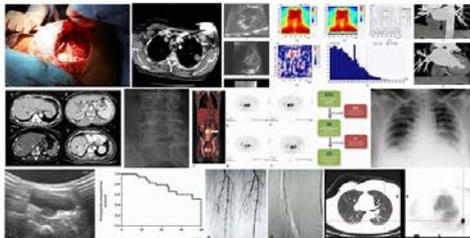
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CHAPTER FIVE Real-Time Fluorescence Image-Guided Oncologic Surgery Suman B. Mondal^a, I. Shengkui Gao^a, Nan Zhu^a, Rongguang Liang^a, Viktor Gruev^a, Samuel Achilefu^{a,1} ^aDepartment of Radiolog...

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Jan 01, 2015. Fluorescence image-guided neurosurgery. Fluorescence image-guided surgery (FIGS) is a medical imaging technique that uses fluorescent contrast agents to detect labeled cancer tissue during surgery. A few review articles about this approach and its clinical applications provide the interested reader a more exhaustive coverage of the approach. 53

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Nov 21, 2014. Additionally, while waiting for real-time magnetic resonance imaging systems, we are working to obtain a real-time refresh of the patient model using the Artis Zeego (Siemens Healthcare) coupled with a custom-made electromagnetic guidance system [1], for both endoscopic (i.e., to identify the site of a previous gastrointestinal biopsy at control endoscopy) and laparoscopic procedures.

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Real-time fluorescence image-guided gastrointestinal oncologic surgery: Towards a new era

Martínez-López E *et al.* Fluorescence image-guided gastrointestinal oncologic surgery

Elias Martínez-López, Aleix Martínez-Pérez, Sergio Navarro-Martínez, Juan Carlos Sebastián-Tomás, Nicola de'Angelis, Eduardo García-Granero

Abstract

Technological improvements are crucial in the evolution of surgery. Real-time fluorescence-guided surgery (FGS) has spread worldwide, mainly by its usefulness during the intraoperative decision-making processes. The success of any gastrointestinal oncologic resection is based on the anatomical identification of the

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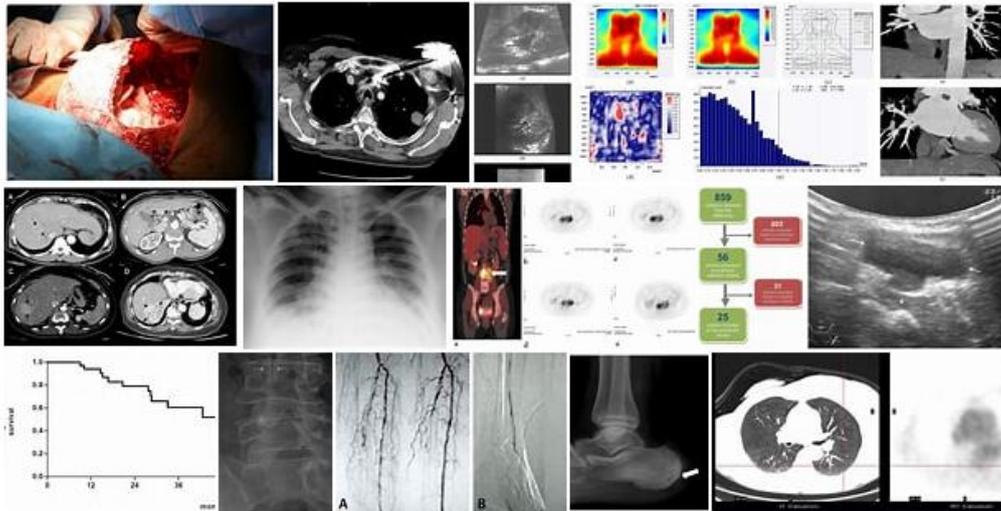
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