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Cited by: 9Author: Meng Liang, Zhengting Cai, Hongmei Zh...
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Radiomics and machine learning applications in rectal cancer: current update and future perspectives

Stanzione A *et al.* Artificial intelligence in rectal imaging

Arnaldo Stanzione, Francesco Verde, Valeria Romeo, Francesca Boccadifuoco, Pier Paolo Mainenti, Simone Maurea

Abstract

The high incidence of rectal cancer in both genders makes it one among the most common tumors with significant morbidity and mortality rates. To define the best treatment option and optimize patient outcome, several rectal cancer biological variables must be evaluated. Currently, medical imaging plays a crucial role in the characterization of this disease, which often requires a multimodal approach. Indeed, magnetic resonance imaging is the first-choice imaging modality for local staging and re-staging and can be used to detect high-risk prognostic factors. On the other hand, computed tomography is widely adopted for distant metastases detection. However, conventional imaging has recognized limitations and many rectal cancer characteristics remain assessable only after surgery by histopathology evaluation. There is a growing interest in artificial intelligence applications in medicine, and imaging is by no means an exception. The introduction of radiomics, which allows the extraction of quantitative features reflecting tumor heterogeneity thus

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