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2020 an endoscopic odyssey: The role of artificial intelligence in the diagnosis of oesophageal neoplasia

Role of AI in oesophageal neoplasia

Abstract

The past decade has seen significant advances in endoscopic imaging and optical enhancements to aid early diagnosis. There is still a treatment gap due to the underdiagnosis of lesions of the oesophagus. Computer aided diagnosis may play an important role in the coming years in providing an adjunct to endoscopists in the early detection and diagnosis of early oesophageal cancers, therefore curative endoscopic therapy can be offered. Research in this area of artificial intelligence is expanding and the future looks promising. In this review article we will review current advances in artificial intelligence in the oesophagus and future directions for development.

Key words: Artificial Intelligence; Oesophageal neoplasia; Barrett's oesophagus; Squamous dysplasia; Computer aided diagnosis; Deep learning

Hussein M, González-Bueno Puyal J, Mountney P, Lovat LB, Haidry R. 2020 an

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The Impact of Artificial Intelligence in the Endoscopic ...

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In the gastroenterology field, the impact of **artificial intelligence** was investigated for the purposes of diagnostics, risk stratification of patients, improvement in quality of **endoscopic** procedures and early detection of neoplastic diseases, implementation of the best treatment strategy, and optimization of patient prognosis. Computer-assisted diagnostic systems to evaluate upper **endoscopy** ...

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