Artificial intelligence technique in the detection of early esophageal cancer

Huang LM *et al*. AI in the detection of early EC

Lu-Ming Huang, Wen-Juan Yang, Zhi-Yin Huang, Cheng-Wei Tang, Jing Li

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Jun 01, 2020 · In this pilot study, our **artificial intelligence model** was able to **detect early esophageal neoplasia** in BE images with high accuracy. In addition, the **object detection algorithm** was able to draw a localization box around the areas of **dysplasia** with high precision and at a speed that allows for real-time implementation.

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Diagnostic outcomes of esophageal cancer by **artificial intelligence** using **convolutional neural networks**. The constructed **CNN system** for **detecting esophageal cancer** can analyze stored **endoscopic images** in a short time with high sensitivity. However, more training would lead to higher **diagnostic** accuracy.

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Artificial intelligence using **convolutional neural networks** for real-time detection of early esophageal neoplasia in Barrett's esophagus (with video) The CNN analyzed 458 test images (**225 dysplasia** and **233 nondysplasia**) and correctly detected **early neoplasia** with sensitivity of 96.4%, specificity of 94.2%, and accuracy of 95.4%.

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Jun 01, 2020 · Recently, artificial intelligence (AI) using **deep learning** (DL) with **convolutional neural networks** (CNNs) has emerged and showed great results in the diagnosis and detection of **lesions** in the esophagus, 14, 15, 16, 17 stomach, 18, 19, 20, 21 **small bowel**, 22 and colon. 23, 24, 25, 26 However, no study has been reported on an application of DL for detection of early neoplasia within BE.

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