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*Observational Study*

A Comparative Study on AI Systems for Detecting Early Esophageal Squamous Cell  
Carcinoma between Narrow-Band and White-Light Imaging

AI for Detecting Early ESCC

Bing Li, Shi-Lun Cai, Wei-Min Tan, Ji-Chun Li, Ayimukedisi Yalikong, Xiao-Shuang  
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Jul 11, 2019 · Few artificial intelligence-based technologies have been developed to improve the efficiency of screening for **esophageal squamous cell carcinoma** (ESCC). Here, we developed and validated a novel **system** of computer-aided detection (CAD) using a **deep** neural network (DNN) to localize and identify **early** ESCC under conventional endoscopic **white-light imaging**.

**Cited by:** 13

**Author:** Shi-Lun Cai, Bing Li, Wei-Min Tan, Xue-...

**Publish Year:** 2019

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Nov 01, 2019 · Using a **deep learning system** in endoscopy for screening of **early esophageal squamous cell carcinoma** (with video) ... H. Machida, et al. **Usefulness of non-magnifying narrow-band imaging** in screening of **early esophageal squamous cell carcinoma**: a prospective **comparative study** using propensity score matching. Am J Gastroenterol, 109 (2014), pp. 845 ...

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Author: Hiromu Fukuda, Ryu Ishihara, Yusuke Kato, ...

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Ebi M, Shimura T, Yamada T, et al. Multicenter, prospective trial of **white-light imaging** alone versus **white-**

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United European Gastroenterol J. 2019; 7 :297–306.

Author: Mohamed Hussein, Juana González-Bu...

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