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Manuscript Type: OPINION REVIEW

Circulating exosomal miRNAs as potential biomarkers for Barrett's esophagus and esophageal adenocarcinoma

Lv J *et al.* Exosomal miRNAs in BE and EAC

Jing Lv, He-Ping Zhao, Kun Dai, Yan Cheng, Jun Zhang, Lei Guo

Abstract

Exosomes, a class of extracellular vesicles, are small membrane-bound vesicles derived from almost all cell types that can play important roles in intercellular communication.

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The **potential for circulating microRNAs (miRNAs) as biomarkers** in other cancers has been shown, but **circulating miRNAs** have not been well characterized in **esophageal adenocarcinoma**. We investigated whether **circulating exosomal miRNAs** have **potential** to discriminate individuals with **esophageal adenocarcinoma** from healthy controls and non-dysplastic **Barrett's esophagus**.

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May 06, 2015 · The poor prognosis and rising incidence of **esophageal adenocarcinoma** highlight the need for improved detection methods. The **potential for circulating microRNAs (miRNAs) as biomarkers** in other cancers has been shown, but **circulating miRNAs** have not been well characterized in **esophageal adenocarcinoma**. We investigated whether **circulating exosomal miRNAs** have **potential** ...

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Background: **Barrett's esophagus (BE)** is one of the major known **risk factors for esophageal adenocarcinoma (EAC)**. **Circulating miRNAs** are emerging as **predictive biomarkers for early detection** ...



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Circulating miRNAs in patients with Barrett's esophagus ...

<https://www.ncbi.nlm.nih.gov/pubmed/30603135>

The aim of this exploratory study was to investigate the potential use of miRNAs as biomarkers capable of identifying patients with (pre)malignant lesions: Barrett's esophagus (BE) metaplasia, high-grade dysplasia (HGD) or esophageal adenocarcinoma (EAC). Methods: A total of ...

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Circulating microRNAs (miRNAs) are promising **biomarkers** for the early detection of cancers. This study aimed to address **potential circulating miRNAs** to monitor the progression from **Barrett's oesophagus (BO)** to oesophageal **adenocarcinoma (OAC)**. We comprehensively analysed tissue and serum miRNA expression profiles of BO mice model (L2-interleukin-1 β (IL-1 β) mice) using microarray ...

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Barrett's esophagus (BE) is one of the major known risk factors for **esophageal adenocarcinoma**