

论著

大肠早期癌症血卟啉和组织卟啉浓度研究

贾泽明, 万小平

中南大学湘雅医院肝胆肠外科研究中心, 长沙 410008

收稿日期 2009-6-5 修回日期 网络版发布日期 接受日期

摘要

目的: 研究癌变肠道局部卟啉浓度差异并阐述其在自体荧光光谱诊断中的应用。方法: 检测30例大肠癌病人, 30例正常人血原卟啉IX浓度差异, 以及60例大肠组织 (30例正常; 30例异常)原卟啉IX的含量。结果: 癌症病人血液中血原卟啉IX明显高于正常人 ($P < 0.05$), 大肠癌组织原卟啉IX含量大于大肠正常组织的含量 ($P < 0.05$)。结论: 癌变肠道局部卟啉含量异常升高, 是大肠早期癌症自体荧光诊断技术 (644.3 ± 5.7) nm 处特异荧光峰值的物质基础。

关键词 [大肠早癌](#); [自体荧光](#); [诊断](#); [卟啉IX](#)

分类号

Concentration of protoporphyrin IX in cancer tissues and blood in patients with colorectal cancer at early stage

JIA Zeming, WAN Xiaoping

National Hepatobiliary and Enteric Surgery Research Center, Xiangya Hospital, Central South University, Changsha 410008, China)

Abstract

Objective To determine the concentration difference in protoporphyrin in cancerous intestine and to discuss its application in laser-induced autofluorescence diagnosis for colorectal cancer at early stage. Methods We detected the concentration of protoporphyrin IX in 30 patients with colorectal cancer and 30 control patients, as well as that in 60 cases of intestinal tissues (30 control tissues and 30 cancer tissues). Results The concentration of blood protoporphyrin IX in patients with colorectal cancer was significantly higher than that in the controls ($P < 0.05$). Protoporphyrin IX concentration in the cancer tissue was significantly higher than that in the control tissues ($P < 0.05$). Conclusion That the concentration of protoporphyrin in cancerous intestine becomes abnormally high may be the material basis for spectrum intensity peak of (644.3 ± 5.7) nm in laser-induced autofluorescence diagnosis for colorectal cancer at early stage.

Key words [colorectal cancer at early stage](#) [autofluorescence](#) [diagnosis](#) [protoporphyrin IX](#)

DOI:

通讯作者 WAN Xiaoping yingwenbianji@yahoo.cn

作者个人主页 贾泽明; 万小平

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF \(971KB\)](#)
- ▶ [\[HTML全文\] \(0KB\)](#)
- ▶ [参考文献 \[PDF\]](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [复制索引](#)
- ▶ [Email Alert](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

- ▶ [本刊中包含“大肠早癌; 自体荧光; 诊断; 卟啉IX”的相关文章](#)
- ▶ 本文作者相关文章

- [贾泽明](#)
- [万小平](#)