

miR-24-3p在胰腺癌中的表达及意义

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Title: The expression and significance of miR-24-3p in pancreatic ductal adenocarcinoma

作者: 方鸿; 李富兴; 田浩; 宋少伟
中国医科大学附属第一医院胰腺外科, 辽宁 沈阳 110001

Author(s): Fang Hong; Li Fuxing; Tian Hao; Song Shaowei
Department of Pancreatic Surgery, The First Affiliated Hospital of China Medical University, Liaoning Shenyang 110001, China.

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摘要: 目的: 分析57例胰腺癌患者的癌组织与癌旁组织中的miR-24-3p的表达情况及临床意义。方法: 收集57例胰腺癌初诊患者术后的癌组织及癌旁组织, 用实时荧光定量PCR技术检测miR-24-3p在胰腺癌组织和相应癌旁组织中的表达情况, 用 χ^2 检验分析miR-24-3p的表达与胰腺癌患者临床病理指标之间的相关性; 用Kaplan - Meier单因素分析计算累积生存率和Log-rank检验分析胰腺癌组织中miR-24-3p的表达量与胰腺癌患者术后预后的关系。结果: miR-24-3p在胰腺癌组织中相对高表达; miR-24-3p的表达与患者的年龄、性别、肿瘤分化程度、肿瘤位置和血管浸润无关 ($P > 0.05$), 而与肿瘤的大小、TNM分期和淋巴结转移相关 ($P < 0.05$); miR-24-3p高表达组患者的3年累计生存率明显低于miR-24-3p低表达组患者 ($P < 0.05$)。结论: miR-24-3p在胰腺癌组织中的表达明显高于其癌旁组织, 提示其参与了胰腺癌的发生发展过程。

Abstract: Objective: To investigate the expression of miR-24-3p and its clinical significance in pancreatic cancer. Methods: The expression of miR-24-3p in 57 pairs of fresh frozen pancreatic ductal adenocarcinoma (PDAC) specimens and their corresponding adjacent non-cancerous pancreas specimens was detected by quantitative real-time PCR (qRT-PCR). Then, the patients were divided into high and low expression groups. The correlation between the expression of miR-24-3p and the clinicopathological characteristics was analyzed by Chi-square test. Survival curves were plotted using the Kaplan-Meier method, then univariate analysis of all variables was made using the Log-rank test. Results: The expression of miR-24-3p in PDAC tissue was up-regulated compared to their corresponding adjacent non-cancerous tissue ($P < 0.05$). The expression of miR-24-3p was not correlated with age, gender, tumor differentiation, tumor location and vascular invasion ($P > 0.05$). However, miR-24-3p expression was positively associated with tumor size, TNM stage, lymph node metastasis. And the prognosis of miR-24-3p high expression group was poor than miR-24-3p low expression group. Conclusion: miR-24-3p was significantly up-regulated in PDAC tissue. It might contribute to the development and progression of PDAC.

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