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MicroRNA-100 在胃癌患者血清中的表达及临床意义

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Expression and clinical significance of serum microRNA- 100 in gastric cancer patients

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摘要

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摘要

目的: 探讨MicroRNA-100 (miR-100) 在胃癌患者血清中的表达及临床意义。方法: 选择蚌埠医学院第一附属医院手术及随访资料完整的胃癌患者(40例)和健康对照组(40例)为研究对象, 提取血清总miRNA, 在建立了稳定、敏感的血清miR-100绝对定量检测方法(qRT-PCR)的基础上, 检测胃癌和健康对照组血清中miR-100表达水平。分析胃癌和健康对照组血清中miR-100表达差异及血清中miR-100表达水平与胃癌临床病理参数的关系。结果: 胃癌患者血清中miR-100的表达水平为(2.78±1.92) fmol/L, 显著高于健康对照组[(0.19±0.15) fmol/L, P<0.01], 同时miR-100的受试者工作特征曲线显示, 血清miR-100对胃癌诊断具有良好的特异度和敏感度(曲线下面积0.985); 进一步分析发现: 血清中miR-100的表达与性别、年龄、肿瘤直径大小、浸润深度、分化程度、淋巴结转移数量、TNM分期等无明显差异(P>0.05)。结论: 血清miR-100的检测可能有助于胃癌的诊断。

关键词: MicroRNA, miR-100, 肿瘤标志物, 胃肿瘤, 敏感性与特异性

Abstract:

Objective: To investigate the expression of microRNA-100 (miR-100) in the serum of gastric cancer patients and its clinical significance. Methods: At The First Affiliated Hospital of Bengbu Medical College, 40 gastric cancer patients who underwent surgery with complete follow-up data and 40 healthy controls were selected as research subjects. Total miRNA was isolated from the serum samples of the cancer patients. A stable and sensitive detection method for the absolute quantification of miR-100 was established. The serum levels of miR-100 in the patients and healthy controls were tested according to this novel method. Differences of the miR-100 expression in the serum samples of the patients and healthy controls were analyzed using statistical analysis. The correlation between miR-100 expression levels and the clinicopathological features of gastric cancer was also analyzed. Results: The expression level of miR-100 in the serum was significantly higher in cancer patients [(2.78±1.92) fmol/L] than in the healthy controls [(0.19±0.15) fmol/L, P<0.01]. The receiver operating characteristic curve of miR-100 indicated that serum miR-100 has satisfactory specificity and sensitivity for the diagnosis of gastric cancer (AUC=0.985). Further analytical results indicated that no significant differences were found among the expression levels of serum miR-100 with respect to the gender, age, tumor diameter, infiltrating depth, differentiation degree, frequency of lymph-node metastasis, and TNM stage (P>0.05). Conclusion: Serum miR-100 testing may be helpful in the diagnosis of gastric cancer.

Key words: MicroRNA, miR-100, tumor marker, stomach neoplasm, sensitivity and specificity

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