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临床医学

血清miR-146a在脓毒症早期诊断中的价值

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摘要:

目的 评价血清miR-146a在脓毒症早期诊断中的价值。方法 采集2012年1月至2013年2月山东大学齐鲁医院重症监护病房内脓症患者45例(A组)、普通外科术后出现全身炎症反应综合征(SIRS)的患者30例(B组)及同期内在体检中心接受查体的健康人员20例(C组)的血样,并记录各研究对象的年龄、性别等一般信息,采用Taqman探针法实时定量PCR检测其血清miR-146a的表达水平,ROC曲线法分析其对脓毒症的诊断性能。结果 与C组比较,A、B两组患者血清miR-146a表达水平明显降低($P < 0.05$),且A组患者血清miR-146a表达水平较B组患者亦降低($P < 0.05$);血清miR-146a诊断脓毒症的敏感性 & 特异性分别为99.0%、68.0%,其ROC曲线下面积为0.82。结论 血清miR-146a作为脓毒症早期诊断指标具有较高的特异性与敏感性,且可较好地区分脓毒症与SIRS。

关键词: 脓毒症; 早期诊断; miR-146a; ROC曲线; 诊断指标

The role of serum miR-146a in early diagnosis of sepsis

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Abstract:

Objective To evaluate the role of serum miR-146a in early diagnosis of sepsis. Methods From January 2012 to February 2013, serum samples from patients diagnosed with sepsis in intensive care unit (ICU), SIRS in general surgery and healthy controls in Qilu HosPital of Shandong University were collected and their data about age, gender, body mass index (BMI) were recorded at the same time. The expression levels of serum miR-146a in all subjects were determined by Taqman-probe real-time quantitative PCR and the diagnostic performance of serum miR-146a was analyzed by Receiver Operating Characteristic Curve (ROC). Results Serum miR-146a was significantly reduced in group A compared to the patients in group B and C ($P < 0.05$) and the sensitivity, specificity and area under the receiver operating characteristic curve were 99.0%, 68.0%, 0.82, respectively. In addition, the levels of serum miR-146a in the patients with sepsis was lower than those in the patients with SIRS ($P < 0.05$). Conclusion Serum miR-146a could serve as a new diagnostic biomarker for sepsis with higher sensitivity and specificity. What's more, it could distinguish sepsis from SIRS.

Keywords: Sepsis; Early diagnosis; miR-146a; ROC curve; Diagnostc biomarker

收稿日期 2013-03-01 修回日期 网络版发布日期

DOI:

基金项目:

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