

论文

充血性心力衰竭患者血清抵抗素、基质金属蛋白酶2及N端脑钠肽浓度的变化及其临床意义

吴春健,徐永庆

山东省荣军总医院检验科, 济南 250013

摘要:

目的 探讨充血性心力衰竭(CHF)患者血清抵抗素(Resistin)、基质金属蛋白酶2(MMP-2)和N端脑钠肽(NT-proBNP)浓度变化及其与左心功能的相关性。方法 选择CHF患者78例(CHF组)以及健康对照30例(对照组),测定其血清NT-proBNP、MMP-2、抵抗素浓度变化,同时经彩色心脏超声测定左心室功能参数:左心室舒张末期内径(LVEDD)、左心室收缩末期内径(LVESD)、左心室射血分数(LVEF)和左心室短轴缩短率(LVFS),并分析其相关性。结果 CHF患者血清NT-proBNP、MMP-2、抵抗素浓度显著高于对照组(P<0.05),并随心力衰竭程度的加重而显著增加(P<0.05);血清NT-proBNP、MMP-2、抵抗素与LVEDD、LVESD呈正相关,与LVEF、LVFS呈负相关(P均<0.05)。结论 检测NT-proBNP、MMP-2和抵抗素浓度有助于CHF的早期诊断及其心力衰竭程度的判断。

关键词: 充血性心力衰竭; 抵抗素; 基质金属蛋白酶2; N端脑钠肽; 左心室射血分数; 左心室短轴缩短率

Serum resistin, MMP2 and NT-ProBNP levels in patients with congestive heart failure

WU Chunjian, XU Yongqing

Clinical Laboratory, The Rongjun General Hospital of Shandong Province, Jinan 250013, China

Abstract:

Objective To study concentration changes of serum resistin, matrix metalloproteinases-2(MMP-2) and N-terminal fragment of the pro-peptide of brain natriuretic peptide (NT-ProBNP) in patients with congestive heart failure(CHF), and the relationship with the left ventricular function. Methods 78 CHF patients and 30 healthy controls were selected, and serum resistin and MMP-2 were detected by ELISA and NT-ProBNP with the electrochemistry luminescence method. Left ventricular function parameters were measured at the same time: left ventricular end-diastolic dimension(LVEDD), left ventricular end-systolic dimension(LVESD), left ventricular ejection fraction(LVEF) and left ventricular fractional shortening(LVFS). Results Serum resistin, MMP-2 and NT-ProBNP levels in patients with CHF were higher than those in the healthy controls(P<0.05), and evidently increased with cardiac function improvement(P<0.05). Serum resistin, MMP-2 and NT-ProBNP levels were positively related with LVEDD and LVESD, negatively related with LVEF and LVFS(P<0.05). Conclusion Resistin, MMP-2 and NT-ProBNP play a very important role in CHF, and are useful in the early diagnosis and evaluation of cardiac function of CHF patients.

Keywords:

收稿日期 2010-04-15 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者: 徐永庆(1969-),男,硕士,副主任技师,主要从事临床生化和免疫学检验相关研究。Email: jnxyq@163.com

作者简介: 吴春健(1968-),女,本科,主管技师,主要从事临床生物化学和免疫学检验。

作者Email:

参考文献:

本刊中的类似文章

扩展功能

本文信息

- ▶ Supporting info
- ▶ PDF(OKB)
- ▶ [HTML全文]
- ▶ 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
- ▶ 引用本文
- ▶ Email Alert
- ▶ 文章反馈
- ▶ 浏览反馈信息

本文关键词相关文章

充血性心力衰竭; 抵抗素; 基质金属蛋白酶2; N端脑钠肽; 左心室射血分数; 左心室短轴缩短率

本文作者相关文章

PubMed

