

论文

高血压伴心力衰竭患者血浆Apelin水平的研究

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摘要:

目的 比较高血压伴心力衰竭患者与单纯高血压患者血浆Apelin水平的差异。方法 120例原发性高血压患者, 根据有无心力衰竭分为高血压伴心力衰竭组79例和单纯高血压组41例, 采用双抗体夹心ELISA法测定血浆Apelin水平和脑钠肽(BNP)含量, 采用飞利浦5700超声仪测左心室舒张期内径(LV)、左室射血分数(LVEF)和左室后壁(LVPW)。结果 与单纯高血压患者相比, 高血压伴心力衰竭患者血浆Apelin水平明显降低(P<0.05); 多因素Binary Logistic回归分析显示, 年龄、BNP、LV、LVEF和血浆Apelin水平与高血压患者心力衰竭的发生具有显著相关性(P均<0.05); 心力衰竭患者晚期与早期比较, 血浆Apelin水平明显降低(P<0.01); 单纯高血压组中, 血压分级越高, 血浆Apelin水平越低(P<0.05)。结论 血浆Apelin水平变化与高血压合并心力衰竭的发生和发展有一定关系, 拟可将血浆Apelin水平作为高血压伴心力衰竭患者危险分层和临床转归的观察指标之一。

关键词: 高血压; 心力衰竭; 血管活性肽

Research of plasma Apelin level in hypertensive patients with heart failure

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Abstract:

Objective To investigate the differences of plasma Apelin level between essential hypertensive patients and hypertensive patients with heart failure (HF). Methods 120 essential hypertensive patients were enrolled and divided into two groups according to the existence of heart failure(HF): the hypertension with HF group (n=79) and hypertension group (n=41). Levels of plasma Apelin and brain natriuretic peptide (BNP) were determined by a sandwich ELISA. Left ventricular (LV), Left ventricular ejection fraction (LVEF) and left ventricular posterior wall(LVPW) were measured by Philips 5700 ultrasonic apparatus. Results Apelin level in the hypertension with HF group was lower than that of the hypertension group (P<0.05). Binary logistic regression showed that age, BNP, LV, LVEF and Apelin were significantly associated with the development of HF in hypertensive patients (P<0.05). Plasma Apelin level of hypertensive patients was higher in the early stage of heart failure than that in the later stage (P<0.05). The plasma Apelin level gradually reduced in contrast to the increase of blood pressure in the hypertension group (P<0.05). Conclusion Plasma Apelin level has a significant relationship with the occurrence and development of hypertension with heart failure, which may serve as an index for risk stratification and clinical outcomes.

Keywords: Essential hypertension; Heart failure; Apelin

收稿日期 2010-08-19 修回日期 网络版发布日期

DOI:

基金项目:

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