

论文

中老年高血压病与高血压前期患者血流动力学变化的临床研究

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摘要:

目的 应用胸阻抗法研究中老年高血压与高血压前期患者的血流动力学特点。方法 462例受检者分为高血压组、高血压前期组与正常组。应用LIFEGARD II型无创血流动力学监测仪测定各组血流动力学指标: 心搏量(SV)、体循环血管阻力(SVR)、胸液成分(TFC)与左心做功指数(LCWI)等。比较3组之间的血流动力学指标差异, 并进一步分析高血压组患者血流动力学特点。结果 高血压组与正常组之间比较, SBP、DBP、PP、MAP、SVR、SV、LCWI等指标存在统计学差异(P<0.05)。高血压前期组与正常组之间比较, SBP、PP、MAP、SVR存在统计学差异(P<0.05)。58.8%的高血压组患者存在SVR异常升高。结论 高血压与高血压前期的患者中均存在不同程度的血流动力学异常。无创血流动力学监测可为高血压患者的个体化治疗提供参考。

关键词: 高血压; 高血压前期; 无创血流动力学; 胸阻抗法

Clinical research of hemodynamic changes in middleaged patients with essential hypertension or prehypertension

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Abstract:

Objective To study the characteristics of hemodynamic in middle-aged patients with essential hypertension or pre-hypertension. Methods 462 subjects were divided into three groups: the hypertension group, the pre-hypertension group and the normal group. A noninvasive hemodynamic monitoring system (LIFEGARD II) was used for detecting hemodynamic indices: SV, SVR, TFC and LCWI. Hemodynamic indices of three groups were compared with each other, and hemodynamic characteristics were further analyzed in the hypertension group. Results There were significant differences in SBP, DBP, PP, MAP, SVR, SV and LCWI (P<0.05) between the hypertension group and the normal group, and in SBP, PP, MAP and SVR(P<0.05) between the pre-hypertension group and the normal group. An abnormal SVR level existed in 58.8% of hypertension patients. Conclusions Various degrees of hemodynamic abnormality exist in hypertension/pre-hypertension patients. Noninvasive hemodynamic examination may provide help for individualized therapy of hypertension.

Keywords: Hypertension; Prehypertension; Noninvasive hemodynamic; Thoracic impedance cardiograph

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