



济脉通与硝苯地平合用对SHR血压的影响及其抗高血压机制的初步研究

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中文摘要:目的: 研究济脉通与硝苯地平合用对SHR血压的影响,并探讨其降压作用机制,阐述其联合用药的特点或优势。方法: 采用自发性高血压大鼠(SHR)模型,设立模型组、济脉通组(450 mg·kg⁻¹)、硝苯地平组(5 mg·kg⁻¹)、济脉通与硝苯地平联合用药组(300 mg·kg⁻¹+0.5 mg·kg⁻¹),连续给药8周后,测定血压、心率、氧化、血脂及激素指标。结果: 与模型组比较,3个给药组均有降低SHR收缩压(SBP)、舒张压(DBP)、平均动脉压(MAP)的作用,硝苯地平组使心率(HR)加快(P<0.05),济脉通组和联合用药组对HR则无显著性影响。联合用药组明显降低尿素(URE)、丙二酰(MDA)、血浆内皮素(ET)及血浆血管紧张素II(Ang II)含量(P<0.05, P<0.05, P<0.05, P<0.01),明显提高一氧化氮(NO)、环磷酸腺苷(CAMP)含量和超氧化物歧化酶(SOD)、一氧化氮合酶(NOS)含量(P<0.05),是其可能的降压机制。结论: 济脉通与硝苯地平联合用药对自发性高血压大鼠有明显的协同降压作用,研究结果表明中西医结合用药对高血压病的治疗具有优势。

中文关键词: 济脉通 硝苯地平 自发性高血压大鼠 高血压 联合用药

Effect of Jimaitong tabl combined with nifedipine on blood-pressure and mechanisms investigation in spontaneously hypertensive rats

Abstract: Objective: To study the effect and its mechanism of antihypertensive of drug combination of Jimaitong tabl and nifedipine on spontaneously hypertensive rats. Method: The spontaneously hypertensive rats (SHR) were treated by intragastric administration (ig) with Jimaitong (450 mg·kg⁻¹), Jimaitong (300 mg·kg⁻¹) combined with the nifedipine (0.5 mg·kg⁻¹), nifedipine (5 mg·kg⁻¹) for 8 weeks. Blood pressure and heart rate was measured. The level of oxidation indicators, lipid indicators, as well as hormones related to blood pressure was detected. Result: Compared with that in the control group, systolic blood pressure, diastolic blood pressure, mean arterial pressure of SHR decreased significantly in all the three administration groups (P<0.01). Heart rates of nifedipine group was faster than other groups (P<0.05). In combination group, contents of URE, MDA, ET and Ang II were decreased significantly (P<0.05, P<0.05, P<0.05, P<0.01), the contents of NO and CAMP, SOD and NOS were significantly enhanced (P<0.05). Conclusion: Combination use of Jimaitong and nifedipine has synergistic effects on anti-hypertension in spontaneously hypertensive rats. It indicates the potential applications of combination of traditional Chinese medicine and western medicine for the hypertension treatment.

keywords: Jimaitong tabl nifedipine spontaneously hypertensive rat hypertension drug combination

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