论著

沙苑子总黄酮对高血压大鼠的降压作用及血管紧张素含量的影响 李景新 1 ,薛 $\dot{\mathrm{W}}^2$,陈连璧 1*

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目的 研究沙苑子总黄酮对肾血管性高血压大鼠(RHR)有无降压作用及可能机理。方法 应用二肾一夹法制 作RHR模型,沙苑子总黄酮急性灌胃给药,尾袖法测量清醒RHR尾动脉收缩压,八导生理记录仪检测麻醉RHR血压及 心率,放射免疫法检测RHR血浆血管紧张素 II (Ang II) 含量。结果 单次ig沙苑子总黄酮100和200 mg·kg-1, 1 h 后清醒RHR血压显著降低,75 min时分别下降了8.5%和10.5%;麻醉RHR在45~60 min时平均动脉压分别下降了8.0%▶加入引用管理器 和14.9%,与给药前或生理盐水对照组相比均有统计学显著性差异,2 h时恢复至原来水平, 心率无明显变化;单次 ig后30 min, AngⅡ含量分别下降了22%和31%。结论 沙苑子总黄酮对RHR有明显降压作用,其机理可能与其降低 Ang II 水平有关。

沙苑子 高血压,肾血管性 血管紧张素 II 关键词

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Antihypertensive effects of total flavonoid fraction of *Astragalus* and its influence upon plasma concentration of complanatus angiotensin II in renovascular hypertensive rats

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Abstract

AIM To investigate if the total flavonoid fraction of *Astragalus complanatus* (TF) possesses antihypertensive effect in renovascular hypertensive rats (RHR) and its possible mechanism. **MEHTODS** RHR were produced by two kidney one clip method. Systolic blood pressure(SBP) was measured by tail-cuff method in conscious rats. Mean arterial pressure (MAP) was recorded by RM-6000 polygraph in anesthetized RHR. Plasma concentration of angiotensin II (Ang II) was measured by radioimmumoassay. RESULTS TF (100, 200 mg·kg⁻¹, ig) induced obvious decrease in SBP by 8.5% and 10.5% (P<0.01), respectively, in conscious RHR at 75 min, and in MAP by 8.0% and 14.9% (P<0.01), respectively, in anesthetized RHR at 45-60 min, but had no influence on heart rate. Ang II was significantly lowered by 22% and 31% after 30 min(P<0.01), respectively. **CONCULUSION** Antihypertensive effects of TF maybe related to its decreasing concentration of Ang II in plasma.

Key words Astragalus complanatus hypertension renovascular angiotensin II

DOI:

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