

论文

中药桑枝提取物对大鼠糖尿病并发症的实验治疗作用

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摘要:

目的研究从中药桑枝中提取的α-葡萄糖苷酶抑制剂,对四氧嘧啶大鼠的高血糖综合症及其糖尿病并发症的实验治疗作用。方法给四氧嘧啶高血糖大鼠连续口服桑枝水提取物(SZ) 15 d,观察其对高血糖综合症、血脂及糖尿病肾病的影响。结果连续口服桑枝水提取物的四氧嘧啶高血糖大鼠,其食和水摄入量、空腹和非禁食血糖、血果糖氨及尿糖等高血糖综合症指标均明显降低,血脂得到调节,糖尿病肾病得到改善。结论SZ可能对糖尿病及其并发症有一定的治疗作用。

关键词: 桑枝水提物 高血糖综合症 血脂 糖尿病肾病

EXPERIMENTAL TREATMENT OF COMPLICATIONS IN ALLOXAN DIABETIC RATS WITH α-GLUCOSIDASE INHIBITOR FROM THE CHINESE MEDICINAL HERB RAMULUS MORI

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Abstract:

AIMTo assess the effects of the α-glucosidase inhibitor Sangzhi (Ramulus mori, SZ) on the relief of diabetic symptoms of hyperglycemia and the prevention of its late complications in alloxan diabetic rats with high-calorie chow. METHODS The aqueous extract of Sangzhi was given orally to alloxan diabetic rats for 15 days. The hyperglycemic symptoms were observed. The blood glucose, lipid levels and the nephrotic representations were measured. RESULTSWhen alloxan diabetic rats on high-calorie chow were treated with SZ, the hyperglycemic symptoms were improved, the blood lipid levels were improved, the ratio of kidney over body weight and the blood N-acetyl-β-D-glucosaminidase (NAG) activity were lowered. The degree of renal pathological changes was significantly reduced. CONCLUSIONSZ may be useful for treating diabetes and its complications.

Keywords: hyperglycemic symptoms blood lipid level diabetic nephrosis aqueous extract of Sangzhi (Ramulus mori) (SZ)

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