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#### 论文

藻酸双酯钠改善模型大鼠的胰岛素抵抗和血脂异常

赵美眯;李智;滕赞;赵金生;于秀华;渡边泰雄;肇丽梅

1. 中国医科大学 药学院, 辽宁 沈阳 110001; 2. 日本药科大学 医药药学科 药理药物治疗,埼玉县 362-0806, 日本; 3. 中国医科大学 附属第二医院 临床药理实验室, 辽宁 沈阳 110001 摘要:

藻酸双酯钠具有抗凝、抗血栓以及调节血脂等作用,是一种新型的抗动脉粥样硬化药物。但它对糖尿病伴脂代谢异常血症的治疗作用还没有明确。本研究建立糖尿病伴脂代谢异常血症大鼠模型,初步探讨藻酸双酯钠对其血糖和血脂的调节作用。Wistar大鼠高脂饲料喂养1.5个月后尾静脉注射链脲佐菌素。建模成功后,灌胃给予藻酸双酯钠1个月,检测血中血糖、胰岛素和脂质浓度。结果显示,藻酸双酯钠治疗组与糖尿病对照组相比,血中甘油三酯、总胆固醇和低密度脂蛋白明显降低,高密度脂蛋白显著升高,藻酸双酯钠治疗后血糖和胰岛素浓度有所下降,而胰岛素敏感指数比糖尿病对照组明显提高。本研究提示,藻酸双酯钠可以改善糖尿病伴脂代谢异常血症大鼠血脂异常,并提高胰岛素敏感性。

关键词: 藻酸双酯钠 实验性糖尿病 链脲佐菌素 脂代谢异常血症

ZHAO Mei-mi,et al:Repeated oral treatment with polysaccharide sulfate reduces insulin resistance and dyslipidemia in diabetic dyslipidemic rat modelRepeated oral treatment with polysaccharide sulfate reduces insulin resistance and dyslipidemia in diabetic

ZHAO Mei-mi; LI Zhi; TENG Zan; ZHAO Jin-sheng; YU Xiu-hua; WATANABE Yasuo; ZHAO Li-mei

#### Abstract:

Polysaccharide sulfate (PSS) is a new type of antiatherosclerotic medicine for its effects of anticoagulation, anti-thrombosis and modulation of dyslipidemia. However, it is still uncertain whether PSS could modulate the diabetic dyslipidemia or not. Here, the rat model of diabetic dyslipidemia was developed and the effects of PSS on glucose and lipid levels were investigated in this animal model. Wistar rats were iv injected with streptozotocin 20 mg·kg<sup>-1</sup> after feeding with high fat diet for one and a half month. Then, rats received orally PSS (30, 90, and 180 mg·kg<sup>-1</sup>) for 1 month. After oral treatment with PSS (90 and 180 mg·kg<sup>-1</sup>) for 1 month, the levels of triglyceride (TG), total cholesterol (TC), low density lipoprotein-cholesterol (LDL-C) were significantly reduced and the level of high density lipoprotein-cholesterol (HDL-C) increased, compared with diabetic control rats. Moreover, PSS (30, 90, and 180 mg·kg<sup>-1</sup>) had a tendency to reduce glucose and insulin levels, and significantly increased insulin sensitivity index. Our results suggest that PSS could improve insulin sensitivity and relieve dyslipidemia in diabetic dyslipidemic rats.

Keywords: experimental diabetes mellitus streptozotocin dyslipidemia polysaccharide sulfate

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