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脂肪酶对大鼠非酒精性脂肪肝的防治作用

Preventive Effect of Lipase on the Non-alcoholic Fatty Liver Disease in Rats

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中文摘要:

目的 研究脂肪酶对高脂饲料诱导的大鼠非酒精性脂肪肝(non-alcoholic fatty liver disease, NAFLD)的防治作用。**方法** 60只Wistar大鼠, ♂, 随机分成正常组、模型组和脂肪酶高、中、低剂量组。模型组和脂肪酶组给予高脂饲料喂养以形成NAFLD模型, 脂肪酶组同时灌胃给予脂肪酶。12周后处死大鼠, 检测血清TG, TC, HDL-C含量并计算TC/HDL-C值, 同时对肝组织进行HE染色。**结果** 脂肪酶能有效降低大鼠体重和肝重指数, 明显降低模型组大鼠血清TG, TC含量及肝内脂肪沉积, 改善肝细胞的脂肪性病变, 但对HDL-C含量无明显影响。**结论** 脂肪酶能有效防治大鼠NAFLD。

英文摘要:

OBJECTIVE To study the preventive effect of lipase on the non-alcoholic fatty liver disease(NAFLD) in rats induced by high fat diet. **METHODS** Sixty male Wistar rats were randomly divided into normal control group, model group and lipase high, medium and low-dose treatment groups. Rats in model group and lipase groups fed on high fat diet to form the NAFLD model, lipase groups fed on lipase at the same time. All rats were sacrificed after 12 weeks and their serum TG, TC, HDL-C levels were determined and the TC/HDL-C ratio was calculated. Hepatic tissues were detected by HE staining. **RESULTS** Lipase effectively reduced the body weight and the liver weight index of rats, significantly reduced serum TG, TC content and intrahepatic fat deposition, and improved the fatty liver disease, but the HDL-C content had no significant change. **CONCLUSION** Lipase can effectively prevent and control NAFLD in rats.

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