

论文

一种用于筛选降血糖及降血脂药物的动物模型

刘京;申竹芳;刘海帆;叶菲;谢明智

中国医学科学院药物研究所,中国协和医科大学,北京100050

摘要:

关键词: 降血糖药 降血脂药 四氧嘧啶

AN ANIMAL MODEL FOR TESTING HYPOGLYCEMIC AND HYPOLIPIDEMIC DRUGS

J Liu;ZF Shen;HF Liu. F Ye and MZ Xie

Abstract:

A new animal model of hyperglycemia and hyperlipidemia was established by treating normal Kunming mice with alloxan(iv); After different time intervals, the levels of blood glucose(BG) and serum triglyceride (TG) were determined. Forty-eight h after alloxan administration, the BG increased significantly, and the level of serum triglyceride reached maximum. The levels of blood glucose, serum triglyceride, cholesterol (CHOL) and free fatty acid(FFA) for vehicle treated mice were about 3.1, 4.0, 1.1, and 1.7 times those of normal Kunming mice, respectively. To evaluate the new animal model, four drugs were used. Two of them were antihyperglycemic drugs, metformin and a Recipe of Chinese Herbs(RC). The other two were antihyperlipidemic agents, clofibrate and fenofibrate. All drugs showed positive effects on this kind of alloxan-diabetic Kunming mice. It can be concluded that this kind of alloxan-treated Kunming mice is useful for testing hypoglycemic and hypolipidemic drugs.

Keywords: Hypoglycemic drug Hypolipidemic drug Alloxan

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作者简介:

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