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论文

结合亚油酸对胰岛素抵抗模型MSG肥胖小鼠的影响结合亚油酸对胰岛素抵抗模型MSG肥胖小鼠的影响

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摘要:

目的研究结合亚油酸对胰岛素抵抗模型MSG肥胖小鼠的胰岛素抵抗是否有改善作用。方法建立胰岛素抵抗模型后分为模型、结合亚油酸和罗格列酮组,观察结合亚油酸对MSG小鼠肥胖、葡萄糖代谢、胰岛素抗性、血及脂肪组织中TNF-α含量等的影响。结果结合亚油酸使MSG小鼠体重增长减少,体型明显改变,但对MSG小鼠异常的胰岛素和葡萄糖耐量、高胰岛素血症及脂肪组织中TNF-α含量升高均无改善,使胰岛素敏感指数明显降低。结论结合亚油酸对MSG小鼠有一定减肥作用,对MSG小鼠的胰岛素抵抗无改善作用。

关键词: 结合亚油酸 MSG小鼠 胰岛素抵抗 2型糖尿病

Effects of conjugated linoleic acid on obese MSG mice with insulin resistance

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Abstract:

AimTo study the effect of conjugated linoleic acid (CLA) on obese MSG mice with insulin resistance. MethodsAbout four months old, obese MSG mice with insulin resistance were divided into control, CLA and rosiglitazone groups and drugs were administrated ig once a day. Body weights were recorded regularly, insulin and glucose tolerance were tested. In addition, serum insulin and TNF-α concentrations in serum and fat tissues were determined. ResultsCLA was shown to reduce the body weight and fat weight in MSG mice, but can not improve the abnormal insulin and glucose tolerance in these mice. Indeed, the serum insulin and TNF-α concentrations in the fat tissues of the group treated with CLA were higher than those in the models and the insulin sensitivity index was significantly lower than that in the model mice. ConclusionCLA can reduce the body weight of MSG mice, but can not improve the insulin resistance in these mice.

Keywords: MSG mice insulin resistance type 2 diabetes conjugated linoleic acid

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