

论文

早期2型糖尿病患者血清 Apelin 水平与动脉粥样硬化的相关性

曹立君, 刘金波, 侯新国, 孙宇, 矫磊, 李振作, 尹小芳, 范琳琳, 张亮, 陈丽

山东大学齐鲁医院内分泌科, 济南 250012

摘要:

目的 探讨在早期2型糖尿病(T2DM)患者中,血清Apelin水平与动脉粥样硬化的相关性。方法 收集60例病程小于3年的新发或新诊断的T2DM患者,行颈动脉、髂总动脉及股动脉超声检测有无动脉粥样硬化斑块,根据超声检测结果将其分为糖尿病斑块组(n=30)及糖尿病非斑块组(n=30),选年龄性别相匹配的正常人32例做对照。常规生化检测各项代谢性指标;采用酶联免疫吸附法测定各组血清Apelin水平,并进行统计分析。结果 糖尿病斑块组及糖尿病非斑块组患者血清Apelin水平均显著高于正常对照组(P<0.05);糖尿病非斑块组患者血清Apelin水平明显高于糖尿病斑块组患者(P<0.05)。多元逐步回归分析表明血清Apelin水平主要受胰岛素抵抗指数(HOMA-IR)及血清胆固醇(TC)水平影响,而Logistic回归则显示血清Apelin水平升高可能是早期T2DM患者动脉粥样硬化的保护性因素。结论 早期T2DM患者中,血清Apelin水平的降低可能是动脉粥样硬化发生的预报因子,Apelin可能是动脉粥样硬化的保护性因素。

关键词: 2型糖尿病; 动脉粥样硬化; Apelin

Correlation between serum Apelin and artery atherosclerosis in early type 2 diabetes mellitus

CAO Li jun, LIU Jin bo, HOU Xin guo, SUN Yu, JIAO Lei, LI Zhen zuo, YIN Xiao fang, FAN Lin lin, ZHANG Liang, CHEN Li

Department of Endocrinology, Qilu Hospital of Shandong University, Jinan 250012, China

Abstract:

Objective To explore the relationship between serum Apelin levels and atherosclerosis in early type 2 diabetes. Methods 60 type 2 diabetes patients whose disease duration was less than 3 years were recruited. Their jugular artery,common iliac artery and femoral artery were examined using color Doppler ultrasonography.According to the results,the patients were divided into the non-plaque group and the plaque group. Thirty-two age and sex-matched healthy controls were enrolled. Besides routine biochemical examination, enzyme-like immunosorbent assaywas used to determine fasting serum Apelin levels of all the people. All the results were statistically analyzed. Results Serum Apelin levels in the patients were significantly higher than those in the normal control group(P<0.05);serum Apelin levels were significantly higher in the non-plaque group than those in the plaque group(P<0. 05). Multiple stepwise regression analysis showed that the serum Apelin level was mainly influenced by the insulin resistance index and serum cholesterol level, while logistic regression showed that the serum Apelin level may be a protective factor of atherosclerosis in early type 2 diabetes patients. Conclusion In early type 2 diabetes,low serum Apelin level may be a predictor of atherosclerosis, and Apelin may be an inhibitory factor for atherosclerosis.

Keywords: Type 2 diabetes mellitus; Atherosclerosis; Apelin

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通讯作者: 陈丽(1958-),女,教授,博士生导师,研究方向为糖尿病再生治疗、肥胖。

作者简介: 曹立君(1983-),女,硕士研究生,研究方向为糖尿病大血管并发症。 E-mail:

caolijun0924@163.com

作者Email:

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