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初诊2型糖尿病早期动脉硬化指标检测及其与糖化血红蛋白相关性

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中文摘要:目的通过对初诊2型糖尿病早期动脉硬化指标进行检测,并探讨其与血糖水平和糖化血红蛋白的相关性。方法125例初诊2型糖尿病患者,根据HbA1c水平分为HbA1c<8.5%组、HbA1c 8.5%~10.0%组和HbA1c>10%组,另选41例健康人作为正常对照组。所有受试者均测定空腹血糖,糖负荷后2h血糖、总胆固醇、三酰甘油、LDL-C、HLDL-C及HbA1c。同时测定颈股脉搏波速度(cf-PW)、心踝血管指数(CAVI)、和踝臂指数(ABI)。比较不同HbA1c分组之间及其与正常对照组间上述指标的而变化,分析cf-PWV、CAVI和ABI与HbA1c的关系。结果不同HbA1c分组中总胆固醇、三酰甘油、LDL-C、空腹血糖、餐后2h血糖、HbA1c、cf-PWV和CVAI均显著高于正常对照组(P<0.05或P<0.01),且随HbA1c升高呈升高趋势,HDL-C和ABI显著低于正常对照组(P<0.05),随HbA1c升高呈降低趋势。上述指标在不同HbA1c分组中具有统计学差异(P<0 05或P<0.01)。对初诊2型糖尿病患者的单因素相关分析显示,cf-PWV和CVA与HbA1c具有显著正相关(R=0.612,P<0.01和R=0.537,P<0.01),ABI与HbA1c具有显著负相关(R=-0.442,P<0.05)。结论初诊2型糖尿病cf-PWV、CVAI和ABI等动脉硬化指标出现异常,与HbA1c水平显著相关。

中文关键词:2型糖尿病 动脉硬化 糖化血红蛋白 脉搏波速度 心踝血管指数

Study on the Measurement and the Association of Early Arteriosclerosis with HbAlc in Newly Diagnosed Type 2
Diabetes Mellitus

Abstract:ObjectiveTo study the measurement and the association of early arteriosclerosis with HbA1c in newly diagnosed type 2 diabetes mellitus. MethodsTotally 125 newly diagnosed type 2 diabetetes (T2DM) were divided into HbA1c<8 5% group, HbA1c 8 5%-10.0% group and HbA1c>10%group. 41 health persons were as normal control group. Fasting plasma glucose, plasma glucose of the 120 min after 75g oral glucose tolerance, total cholersterol, triglyceride, low-density lipoprotein cholesterol (LDL-C), high-density lipoprotein cholesterol (HLDL-C), HbA1c, carotid-femoral pulse wave velocity (cf-PWV), cardio-ankle vascular index (CAVI) and ankle-brachial index (ABI) were measured and evaluated in all newly diabetes mellitus and normal control subjects. The relationship between cf-PWV, CAVI and ABI and HbA1c were analyzed. ResultsTotal cholersterol, triglyceride, LDL-C, fasting plasma glucose, two hours plasma glucose, HbA1c, cf-PWV and CAVI were significantly higher (P<0.05 or P<0.01) and HDL-C and ABI were lower (P<0.05) in newly diagnosed diabetes mellitus than normal control subjects (P<0.05 or P<0.01). And they were increased with the increasing of HbA1c. There was significant difference among the three different HbA1c groups also (P<0.05 or P<0.01). The correlation analysis showed that c-f PWV and CAVI were positively correlated with HbA1c (R=0.612, P<0.01 and R=0.537, P<0.01) and ABI was negatively correlated with HbA1c (R=0.642, P<0.05). ConclusionThe cf-PWV, CAVI and ABI were abnormal in newly diagnosed diabetes mellitus and significantly correlated with HbA1c.

keywords: Type 2 diabetes mellitus Arteriosclerosis HbA1c Pulse wave velocity Cardio-ankle vascular index

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