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彩色多普勒超声观察2型糖尿病患者脉络膜血管的血流参数变化

Color Doppler imaging on blood parameters of choroidal artery in type 2 diabetic patients

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中文摘要:

目的 观测2型糖尿病患者脉络膜血管的血流参数变化。方法 应用彩色多普勒超声测量54例(108只眼)2型糖尿病患者和81名正常对照者脉络膜血管的收缩期峰值血流速度(PSV)、舒张末期血流速度(EDV)、阻力指数(RI)、收缩期加速时间(SAT)、加速度(A)、加速时间与心动周期之比(R),并与正常对照组比较,分析性别、年龄、身高、体质量、糖尿病病程、血糖水平和高血压与各血流参数的相关性,测量睫状后短动脉的PSV、EDV和RI,比较两血管血流参数变化的一致性。结果 与正常对照组比较,2型糖尿病患者脉络膜血管的PSV、EDV降低,RI增高,R增大,差异有统计学意义($P < 0.05$),与睫状后短动脉的变化一致;SAT、A与正常对照组的差异无统计学意义($P > 0.05$)。PSV与糖尿病病程、年龄均呈负相关($P < 0.05$);RI与病程、年龄和血糖水平均呈正相关($P < 0.05$);R与病程、年龄均呈正相关($P < 0.05$)。结论 应用彩色多普勒超声检测2型糖尿病脉络膜血管的血流参数变化可以反映糖尿病脉络膜病变的血液循环状态,为临床诊断起到提示作用。

英文摘要:

Objective To observe the hemodynamic changes of choroidal artery in type 2 diabetic patients and the impact factors. **Methods** Choroidal artery flow in 54 diabetic patients and in 81 healthy control subjects were observed with color Doppler imaging. The values of peak systolic velocity (PSV), end diastolic velocity (EDV), resistance index (RI), intervals between the beginning of systolic and the peak (SAT), acceleration (A) and rate of acceleration time and cardiac cycle (R) were measured, and then correlation between these parameters and several factors such as gender, age, stature, avoirdupois, course of diabetes, blood sugar, and hypertension, as well as correlation between these parameters and those in healthy subjects were analyzed. PSV, EDV and RI were also measured of posterior ciliary artery (PCA), the constance between choroidal artery and PCA was compared. **Results** Compared with the control group, PSV and EDV decreased, RI and R increased in patients with type 2 diabetes, which were consistent with the changes of PCA. SAT and A had no difference between two groups. Negative correlation was found between PSV and age, course of diabetes. Positive correlation was found not only between RI and age, course of diabetes, blood sugar, but also between R and age, course of diabetes. **Conclusion** Hemodynamic differences on choroidal artery of type 2 diabetic patients can be measured with color Doppler ultrasound, which can provide valuable information for preventing complications clinically.

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