

ACE基因多态性与高血压肾脏损害及PAI-1的关系 The Relationship between Angiotensin Converting Enzyme Gene Polymorphism and Hypertensive Kidney Lesion and PAI-1 in Hypertension Patients

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摘要 为探讨血管紧张素转换酶(ACE)基因多态性与高血压肾损害和纤溶酶原激活物抑制物-1(PAI-1)的关系,应用聚合酶链反应(PCR)检测96例正常人、67例高血压无肾脏损害患者和70例高血压伴肾损害患者的ACE基因型,采用ELISA法检测血浆PAI-1。ACE基因I/D多态性与高血压病无明显相关,但高血压肾损害患者DD基因型频率及D等位基因频率显著高于对照组和高血压无肾脏损害组, χ^2 值分别为6.8589、5.6162和5.9085、5.372。血浆PAI-1在DD型、ID型、II型高血压患者之间亦有显著性差异($P < 0.05$)。ACE基因DD型可能是高血压肾损害的危险因素;ACE基因多态性与血浆PAI-1水平相关。

Abstract: The work is to explore the relationship between the polymorphism of angiotensin converting enzyme(ACE) gene and hypertensive kidney lesion/PAI-1 in hypertension patients. ACE genotyping with polymerase chain reaction (PCR) was performed in 96 unrelated healthy controls, 67 hypertensives without kidney lesion and 70 hypertensives complicated with kidney lesion. The plasma PAI-1 were determined with ELISA. No significant differences could be detected between ACE gene I/D polymorphism and hypertension. However, the frequencies of DD genotype and deletion allele among the hypertensives complicated with kidney lesion were higher than those among the healthy controls and those among the hypertensives without kidney lesion. " χ^2 " values were 6.8589, 5.6162 and 5.9085, 5.372 respectively. The plasma PAI-1 level showed significant differences among DD genotype, ID genotype and II genotype ($P < 0.05$). The DD genotype of ACE gene may be a risk for hypertensive kidney lesion. The plasma PAI-1 level is associated with ACE gene polymorphism.

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