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论著

乙型肝炎病毒1653T变异与肝癌相关性研究

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摘要:

目的研究乙型肝炎病毒(HBV)1653T变异与肝癌的相关性。方法收集HBV感染者血清119份(HBV DNA均阳性, 其中 HBV携带24份,慢性乙型肝炎35份,乙型肝炎肝硬化29份,原发性肝癌31份),采用半巢式聚合酶链反应扩增 HBV 前C及C基因部分片段,产物纯化后直接测序,检测1653T变异;用S基因PCR RFLP方法确定HBV基因型。 结果24份HBV携带者标本未检出1653T变异,35份慢性乙型肝炎患者标本中检出1份(2.86%)1653T变异,29份 乙型肝炎肝硬化患者标本中检出5份(17.24%)1653T变异,与慢性乙型肝炎患者比较,差异无统计学意义 (χ2=2.36, P>0.05); 31份原发性肝癌患者标本中检出14份(45.16%)1653T变异,与乙型肝炎肝硬化患者比 ▶加入引用管理器 较,差异有统计学意义(x2=5.40, P<0.05)。119份血清标本中有10份未能成功定型;余51份B基因型标本中检 出2份1653T变异,58份C基因型标本中检出18份1653T变异,两者比较,差异有统计学意义(X2=11.57,P< 0.01)。结论HBV 1653T变异与原发性肝癌关系密切,更易发生在C基因型;可作为预测原发性肝癌的指标。

关键词: 肝炎病毒,乙型; 肝炎 乙型; 肝肿瘤; 原发性肝癌; 1653T变异; 基因型

The relationship between hepatitis B virus mutation at nucleotides 1653T and liver cancer

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Abstract:

ObjectiveTo study the relationship between hepatitis B virus (HBV) mutation at nucleotides 1653T and liver cancer. MethodsOne hundred and nineteen serum samples of HBV infected patients were collected (All were positive HBV DNA), 24,35, 29, and 31samples were from asymptomatic carriers (ASC), patients with chronic hepatitis B (CHB), liver cirrhosis (LC), and hepatocellular carcinoma (HCC), respectively. Partial fragments of HBV pre C and C gene were amplified by semi nested polymerase chain reaction. The PCR products were subjected to direct sequencing and the mutation at 1653T was determined by sequence analysis. HBV genotypes were detected by restriction fragment length polymorphism based on S gene PCR products. ResultsAll samples from 24 ASC were not found mutation at nucleotides 1653T; 1(2.86%) sample from 35 CHB and 5(17.24%) from 29 LC were found mutation at 1653T; The detection rate of 1653T mutation was not significantly different between CHB and LC (χ 2=2.36, P>0.05): 14(45.16%) samples were found mutation at 1653T in HCC, the mutation at 1653T in HCC was significantly higher than that of $LC(\chi 2=5.40, P<0.05)$. Of 119 serum samples of HBV, 2 of 51 genotype B and 18 of 58 genotype C were detected mutation at nucleotides 1653T, the other 10 samples couldn't be determined genotype. The difference in mutation at 1653T between genotype C and B was significant (χ 2=11.57, P<0.01).ConclusionHBV 1653T mutation is correlated with HCC, and is more prone to occur in genotype C infection; 1653T mutation can be as predictive risk factors for hepatocarcinogenesis.

Keywords: hepatitis B virus hepatitis B liver tumor hepatocellular carcinoma; 1653T mutation; genotype

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