论著

乙型肝炎患者及其子女HBV DNA U5样序列 单核苷酸多态性分析

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摘要 目的 进一步探讨乙型肝炎在患者及其亲子代之间的垂直传播。方法 应用单核苷酸多态性(SNP)、聚合酶链反应一单链构象多态性(PCR-SSCP)分析等分子遗传学技术和方法检测了乙型肝炎患者家系30个,6 8例受试者。 结果 U5样序列PCR检测结果表明,游离型和整合型HBV DNA在乙型肝炎患者(HBP)与其发病后出生子女(HBPa)实验组检出率之间呈一致性增高,其检出率分别与乙型肝炎患者发病前出生子女(HBPb)和正常对照组的比较,差异均显著,p<0.05。乙型肝炎患者父子之间的SNP分析发现,在U5样序列区和非U5样序列区多个碱基位点处出现碱基替换、插入或缺失,1908A→T、1950 G→T、1967 T→C,还存在1900T缺失和19 03C插入等。乙型肝炎患者父子之间的SNP在1908、1950、1967、1900和1903位点一致。 结论 乙型肝炎可以在HBsAg阳性的男乙型肝炎患者(MHBP)及其子女之间遗传传递,为乙型肝炎的遗传传递进一步提供了分子遗传学证据。

关键词 肝炎,乙型 单核苷酸多态性 遗传学

分类号

An analysis of single nucleotide polymorphism on HBV D NA U5 sequence of hepatitis B patients and their children

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Abstract Objective To study further vertical transmission of hepatitis B between the hepatitis B patients and their children. Methods 30 families(68cases) of hepatitis B patients and their children were examined by the molecular genetic methods and techniques of single nucleotide polymorphis m(SNP) and polymerase chain reaction – single strand configuration polymorphism(PCR-SSC P). Results It showed that the frequency of freed and integrated HBV DNA were higher consiste ntly between the hepatitis B patients and their children born after the occurrence of hepatitis B, and they had significantly difference than the children born before their parent suffered from hepatitis B, p <0.05. SNPs of hepatitis B patients and their children was ananlysed and discovered that there are base substitution, insertion or deletion in the many base site of HBV DNA U5 sequence and non-U5 sequence, 1908A \rightarrow T, 1950 G \rightarrow T, 1967 T \rightarrow C, and deletion in 1900T, insertion in 1903C and so on. The SNPs in the loci of 1908 \, 1950 \, 1967 \, 1900 and 1903 of male hepatitis B patients and their children born after the occurrence of hepatitis B is identical. Conclusion Hepatitis B may be inherited from the male hepatitis B patients to their children born after the occurrence of hepatitis B; thereby, a molecular genetic evidence was provided further for hereditary t ransmission of hepatitis B.

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