

一个典型中国 α -地中海贫血家系的基因分析

张俊武, 吴冠芸, 黄有文, 王荣新, 张尼佳
中国医学科学院基础医学研究所, 北京

中国人民解放军303医院, 广西南宁

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摘要 本文应用印迹杂交技术和 α -珠蛋白基因探针, 对临床上发现的一个HbH病人DNA进行了限制性内切酶图谱分析, 确定其为 α -地贫1与右侧缺失 α -地贫2双重杂合子 (α -/--)。对其家系的另11个成员进行了 α -珠蛋白基因分析, 证明他们均为 α -地贫基因携带者。其中先证者的父亲及一个女儿的基因型与先证者相同, 母亲、妻子、两个弟弟及长子为 α -地贫1杂合子 ($\alpha\alpha$ /--), 两个妹妹及二子、三子均为右侧缺失。 α -地贫2杂合子 (α -/--)。家系的基因分析对采取各种途径控制 α -地贫的传延具有重要意义。

关键词

分类号

Gene Analysis of a Typical Chinese α -thalassemia Family

Zhang Junwu WuGnanyun Huang Youwen Wang Rongxin Zhang Nijia

Institute of Basic Medical Sciences, Chinese Academy of Medical Sciences

The 303 Army Hospital, Guangxi

Abstract

Utilizing Southern blot technique and α -globin gene probe physical maps of restriction endonuclease sites around α -globin genes of an HBH patient found in clinic are fulfilled. The results show that it is a double heterozygote of α -thal 1 and rightward deletion α -thal 2 genotype (α -/--). The arrangement of α -globin genes of another 11 members of his family is analyzed. The results show that they all are carriers of α -thal gene. The genotypes of propositus' father and daughter are the same as propositus'. His mother, wife, two brothers and the eldest son are heterozygotes of α -thal 1 α -thal 2. Gene analysis of families is of important significance for control of α -thalassemia by adopting different preventive measures.

Key words

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