



### 云南HIV阳性患者感染弓形虫基因型的初步分析

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### Genotypes of *Toxoplasma gondii* Isolates from HIV Positive Patients in Yunnan Province

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摘要

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摘要 2011年9月至2012年12月收集云南省西部地区HIV阳性患者全血样品150份, 利用巢式PCR技术对血样进行弓形虫B1基因的扩增, 扩增产物经限制性内切酶Pm1 I 和Xho I 酶切, 进行限制性内切酶片段长度多态性分析(RFLP)。自B1基因扩增阳性的血样中取5份扩增产物测序, 结果与标准基因I型株B1基因序列(登录号为AF179871)进行比对分析。在150份HIV阳性患者血样中, 13份扩增出弓形虫B1基因, 约530 bp。PCR产物酶切结果显示, 13份血样均得到1个片段, 约为500 bp, 与标准基因I型株的条带一致。测序结果显示, 4份血样的扩增产物完全一致, 与基因I型株的B1基因序列仅有3个碱基的差异; 余1份血样的扩增产物在第230对碱基处G→A。因此初步确定此次研究中的云南省西部地区HIV阳性患者感染弓形虫基因型为I型。

关键词: 人类免疫缺陷病毒 刚地弓形虫 B1基因 巢式PCR 基因分型

Abstract: One hundred and fifty serum samples of HIV positive patients were collected in western Yunnan Province from September 2011 to December 2012. *Toxoplasma gondii* B1 gene was amplified by nested PCR. Genotyping of *T. gondii* isolates were performed by restriction fragment length polymorphism (RFLP) with Pm1 I and Xho I. 13 samples were found positive with the B1 gene (530 bp) amplification and belonged to type I. The sequencing results showed that 4 *T. gondii* B1 gene positive samples were identical, with 3 nucleotide variation compared with *T. gondii* strain RH (type I) B1 gene (GenBank No. AF179871), and in the other sample a "G→A" mutation at 230 bp was detected. The results indicated that the genotype of *Toxoplasma gondii* in HIV positive patients in Yunnan Province is type I.

Keywords: HIV *Toxoplasma gondii* B1 gene Nested PCR Genotyping

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