

论著

## 内脏利什曼病患者骨髓及血内病原体特异性kDNA片段PCR扩增用于诊断的研究

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摘要

目的：建立简易、准确的诊断内脏利什曼病和病原体鉴定技术。方法：采用作者设计的杜氏利什曼原虫 (*L. d.*) 种特异引物I和II，经PCR扩增样品内病原体kDNA 297 bp 片段，检测22例确诊内脏利什曼病 (VL) 患者骨髓、血、血清共55份样品和4例临床疑诊为黑热病患者的骨髓(共26例，59份样品)。结果：(1) PCR法与骨髓涂片镜检符合率为96.2% (25/26)；(2) PCR法检测骨髓、血及血清的总阳性率为95.4% (21/22)；(3) PCR法检测22例骨髓、16例血样品及17例血清样品，阳性率分别为91% (20/22)、68.8% (11/16)及29.4% (5/17)。15例骨髓对照样品得自9例白血病患者及6例健康人。血及血清对照样品各得自5例健康人。全部对照未见扩增产物，均为阴性。结论：采用引物I和II进行PCR扩增检测血内kDNA特异片段诊断内脏利什曼病有较好前景。

关键词 [内脏利什曼病](#) [诊断](#) [PCR](#) [kDNA](#) [骨髓](#) [血](#) [血清](#)

分类号

## STUDIES ON DIAGNOSIS OF VISCERAL LEISHMANIASIS BASED ON PCR AMPLIFICATION OF *LEISHMANIA DONOVANI* kDNA FRAGMENT FROM BONE MARROW AND BLOOD SAMPLES OF VISCERAL LEISHMANIASIS PATIENTS

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Abstract

AIM: To develop a simple and accurate technique for the diagnosis of visceral leishmaniasis (VL) and identification of *Leishmania* pathogen. METHODS: Based on a set of oligonucleotide primers I and II designed by the authors with *L. donovani* specificity, a polymerase chain reaction (PCR) was conducted to amplify a minicircle kDNA fragment (297 bp) for identification and detection of *L. donovani* in the bone marrow, blood and serum samples from 22 confirmed VL patients and 4 bone marrow samples from 4 clinically diagnosed cases (59 samples collected from 26 cases). RESULTS: (1) The coincidence rate between PCR and bone marrow smear method was 96.2% (25/26); (2) The total positivity of PCR with the bone marrow, blood and serum was 95.4% (21/22); (3) The positive rate of PCR amplification with bone marrow, blood and serum specimens were 91.0% (20/22), 68.8% (11/16) and 29.4% (5/17), respectively. The controls included 15 bone marrow samples from 9 leukemia patients and 6 normal persons; 5 blood and 5 serum samples of normal persons. No amplification product was showed from all of the controls. CONCLUSION: The result shows that the diagnosis of visceral leishmaniasis based on detecting kDNA in blood by PCR amplification with primers I and II is promising.

Key words [Visceral leishmaniasis](#) [diagnosis](#) [PCR](#) [kDNA](#) [bone marrow](#) [blood](#) [serum](#)

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