

 **Current Issue** **Browse Issues** **Search** **About this Journal** **Instruction to Authors** **Online Submission** **Subscription** **Contact Us** **RSS Feed**

## Acta Medica Iranica

2009;47(4) : 13-15

### Identification of Cutaneous Leishmaniasis Agents by Nested Po-lymerase Chain Reaction (Nested-PCR) in Shush City, Khuzestan Province, Iran

S Maraghi, A Samarbaf Zadeh, AA Sarlak, M Ghasemian, B Vazirianzadeh

#### Abstract:

**Background:** Leishmaniasis is a common parasitic disease world wide. Leishmania tropica and L. major are two common cause of cutaneous leishmaniasis in Iran. The aim of this study was determination of the cause of cutaneous leishmaniasis in Shush city, Khuzestan Province, Southwest Iran

**Methods:** One hundred samples were collected from patients at the age of 1-80 year with documented cutaneous leishmani-asis referred to the health centre and a private medical diagnostic laboratory at Shush City. DNA was extracted from slid samples by phenol- chloroform- Isoemil alcohol method, and subjected to Nested-PCR as template. k DNA of the parasites were amplified by CSB1XR and CSB2XF in the first round of PCR and 13Z and LI R primers for the second round. After PCR, electrophoresis of products was performed and 750bp band from L. tropica and 560bp band from L. major were de-tected.

**Results:** A total of 100 cases comprising 47 females and 53 males were studied. The highest infected age group was under 10 years with a rate of 42% and the lowest rate was 4% at the age group of above 40 years. The results of PCR electropho-resis indicated that 90(90%) cases were L. major and 10 (10%) L. tropica. The predominant species in this area was L. ma-jor.

**Conclusion:** It is concluded that Nested PCR is a reliable test for diagnosis and identification of Leishmania species and can apply in epidemiological investigations.

TUMS ID: 4011

Full Text HTML  Full Text PDF  111 KB

top ▲

[Home](#) - [About](#) - [Contact Us](#)

TUMS E. Journals 2004-2009  
Central Library & Documents Center  
Tehran University of Medical Sciences

Best view with Internet Explorer 6 or Later at 1024\*768 Resolutions