



 **Current Issue**

 **Browse Issues**

 **Search**



 **About this Journal**

 **Instruction to Authors**

 **Online Submission**

 **Subscription**

 **Contact Us**



 **RSS Feed**

Acta Medica Iranica

2009;47(4) : 23-26

Immunophenotypic Characterization of Peripheral Blood T-Lymphocytes and Their Subpopulations in Tuberculosis Patients before and after Treatments

Zohreh Pessaran, Freshteh SahebFosul, Farzad Oreizi, Ahmad Ghavaminejad, Abolfazl Kiani, Zahra Dana Siadat

Abstract:

Tuberculosis is a chronic mycobacterial infection. The main effector cells against mycobacterium tuberculosis are CD4+ T lymphocytes. Our objective in this research was to evaluate the quantity of T lymphocytes and their subpopulations before and after treatments with combination of 4 drugs (Rifampicin, Isoniaside, pyrasinamide, Ethambutal) for 2 months directly in sputum-positive tuberculosis patients. Twenty patients as cases and 20 healthy people were selected as controls. Flow cytometry was used for TCD3+, TCD4+ and TCD8+ lymphocytes by using monoclonal antibodies. Our results indicated that there was alteration in cell mediated immunity during tuberculosis showing itself as decrease in TCD3+ and TCD4+ lymphocytes and increase in TCD8+ lymphocytes. The changes in TCD3+ and TCD4+ but not in TCD8+ were reversible after 2 months of treatment.

Keywords:

Immunophenotype

TUMS ID: 2732

Full Text HTML  Full Text PDF  45 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