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## Acta Medica Iranica

2009;47(4) : 31-38

### Effect of Tindurin on Immunopathogenesis Mechanism of Collagen-Induced Arthritis

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#### Abstract:

Rheumatoid arthritis is a chronic inflammatory disease characterized by the sequestration of various leukocyte subpopulations within both the developing pannus and synovial space. This study was undertaken to examine the therapeutic potency of tindurin in experimental rheumatoid arthritis. Collagen-induced arthritis (CIA) was induced by intradermally immunization of Lewis rats at the base of the tail. The paws and knees were then removed for histopathology and radiography analysis. Using fibrosarcoma cell line the apoptosis process was measured by Terminal deoxyribonucleotidyl transferase-mediated dUTP nick-end labeling (TUNEL) method. Our data showed that the i.p. injection of tindurin to arthritic rats induced a significant reduction in paw edema. Histopathological assessment showed reduced inflammatory cells infiltrate, tissue edema and bone erosion in joints of treated rats. Moreover, our results in radiography were in line with histological findings as well as tindurin was found to induce apoptosis of treated cells in comparison with positive, negative and non-treated ones. Our findings revealed the therapeutic effect of tindurin in experimental model of rheumatoid arthritis in comparison with methotrexate as a choice drug.

#### Keywords:

Anti-malarial drugs . Tindurin

TUMS ID: 1685

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