💭 Current Issue	Acta Medica Iranica
🕖 Browse Issues	2009;47(4) : 1-5
Search	Original Article
About this Journal	Evaluation of anti-inflammatory and antioxidant activity of Ichnocarpus frutescens root
Instruction to Authors	Pandurangan A., Khosa R.L., Hemalatha S
🗿 Online Submission	Search Corresponding Author:
Subscription	Pandurangan A
Contact Us	Received: May 21,2008
$\sim$	Accept : August 18,2008
🔝 RSS Feed	Available online: March 14,2009
	Abstract:
	ABSTRACT

*Background and the purpose of the study: Ichnocarpus frutescens* has been widely used in the traditional medicine for the treatment of a variety of diseases. In the present study anti-inflammatory and antioxidant property of roots of this plant was investigated.

*Methods:* The anti-inflammatory activity of methanolic extract of Ichnocarpus *frutescens* (MEIF) was evaluated by carrageenan, and cotton pellet induced granuloma tests to determine its effects on acute and chronic phase of inflammation models in rats.

*Results and major conclusion:* Preliminary Phytochemical analysis of methanolic extracts showed presence of terpenoids, flavonoids, and sterols. Maximum inhibition (54.63 %) was obtained at the dose of 100 mg/kg after 3 hrs of drug treatment in carrageenan induced paw oedema, whereas indomethacin produced 57.65 % of inhibition. In the chronic model, 300 mg/kg of MEIF like indomethacin and dexamethasone standard drug decreased formation of granuloma tissue by 22.64, 29.63 % and 34.84 % respectively. The successive methanol re-extract of *Ichnocarpus frutescens* root (MEIF) exhibited strong scavenging effects on 2, 2-diphenyl-2-picryl hydroxyl (DPPH) free radical, nitric oxide, super oxide anion, hydroxyl radical and inhibition of lipid peroxidation. These results clearly indicate strong anti-inflammatory and antioxidant properties of *Ichnocarpus frutescens* root.

## Keywords:

Ichnocarpus frutescens; Anti-inflammatory; Carrageenan; Cotton pellet induced granuloma

## TUMS ID: 12779

Fall Text HTML 🥖 🛛 Fall Text PDF 🖄 138 KB

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