

**PROPHYLACTIC EFFECT OF AEGLE MARMELOS LEAVES
AGAINST COMPLETE FREUNDS ADJUVANT (CFA) INDUCED
ARTHRITIS**

Desai Nilesh V*, Patkar Atul N, Shinde Shilpa A, Pandav A.V.

Rajashri Shahu Chhatrapati Institute of Pharmacy, Kolhapur-416002, Maharashtra, India.

Received: 16 December 12

Revised and Accepted: 09 January 2013

ABSTRACT

Rheumatoid arthritis (RA) is a chronic crippling, skeleton-muscular disorder having nearest approximation to human rheumatoid arthritis for which there is currently no medicine available effecting a permanent cure. Even modern drugs used for the amelioration of the symptoms, offer only temporary relief and also produce severe side effects. This work was aimed at the scientific validation of the ethno-pharmacological claim about Aegle marmelos and its anti-arthritis property. In the present study, anti-arthritis activity of aqueous extract of Aegle marmelos (AEAM) is done by prophylactic model of Complete Freund's adjuvant (CFA) induced arthritis. Parameters such as paw edema, paw diameter and changes in body weight during arthritic condition was corrected on treatment with AEAM. Serum parameters such as SGOT, SGPT, ALP, and Total protein were also estimated for assessing the anti-arthritic potential of AEAM. The results of the current investigation concluded AEAM possess a significant anti-arthritic activity against CFA induced arthritis model and justifying its therapeutic role in arthritic condition. The observed antiarthritic activity may be due to the presence of phytoconstituents such as alkaloid and flavonoids.

Keywords: Rheumatoid Arthritis, Aegle marmelos, Complete Freund's adjuvant.
