

ANTI-ARTHRITIC ACTIVITY OF A NEW PLANT SPECIES FOR THEIR PHARMACOLOGICAL AND PHYTOCHEMICAL STUDIES

POONAM YADAV¹ & AMIT NAYAK²

^{1 & 2}Department of Pharmacology Science, School of Medical & Allied Sciences, G.D. Goenka University,
Gurgaon Sohna Road, Gurgaon, Haryana, India

ABSTRACT

The use of biologically active substance originating from plants i.e. phytochemicals, which have long been recognized for their pharmacological properties in regard to the autoimmune disorders like rheumatoid arthritis (RA). An immunological condition such as autoimmune disease occurs when the immune system over-reacts to self-antigens. One such type of persistent autoimmune condition, shown as rheumatoid arthritis (RA), results in inflammation and immune cell infiltration near the synovial membrane, which causes cartilage to deteriorate and break down. In addition to being very helpful in the treatment of inflammatory, autoimmune and viral illnesses, phytochemicals are very helpful in the management of arthritis. The Complete Freund's Adjuvant model (CFA) used in arthritis induction in rat model used to assess the rheumatoid arthritis (RA) clinical features. The moringa extract can significantly decrease the harshness of arthritis or block its attack. Additionally, rats with CFA-induced arthritis showed strong anti-nociceptive action in response to a dose-dependent way was seen in an ethanol extract of Moringa leaves. Drug therapy does not always eliminate these issues, even when it lowers disease activity. Some techniques with significant ethnotraditional and ethnobotanical components attempted to compile all evidence of anti-rheumatoid arthritis activity. These methods provide some encouragement for the treatment of RA.

KEYWORDS: Arthritis, Herbal Medicines, Inflammation, Joint Pain, Plant Natural Products

Received: May 27, 2023; **Accepted:** Jun 09, 2023; **Published:** Jun 24, 2023; **Paper Id:** IJMPSJUN20233