عنوان مقاله:

ANTI-ATHRITIC EFFECTS OF LIME, MAIZE HUSK EXTRACT AND ITS CO ADMINISTRATION ON WISTAR RATS

محل انتشار:

دوفصلنامه طب گیاهی پیشرفته, دوره 4, شماره 4 (سال: 1397)

تعداد صفحات اصل مقاله: 12

نویسندگان:

Bamidele Owoyele, - *Department of Physiology, College of Health Sciences University of Ilorin, P.M.B. ۱۵۱۵*,

Aderayo Ibiyemi - *Department of Physiology, College of Health Sciences, University of Ilorin, P.M.B.۱۵۱۵, Ilorin ۲۴۰۰۰۱, Nigeria*

Mosunmola Oyeleke - *Department of Physiology, College of Medicine and Health Sciences, AfeBabalola University, P.M.B. ۵۴۵۴, Ado-Ekiti, Nigeria*.

خلاصه مقاله:

This study investigated the anti-arthritic effects of lime juice (LJ) and lime juice with maize husk extract (LJMHE) in Wistar rats. Arthritis was produced by formaldehyde model after the commencement of oral administration of LJ (۲.۵ml/kg and ۵ml/kg), LJMHE (۵ml/kg, ۵۰mg/kg), vitamin C (ViC) (۱۰۰mg/kg), saline (۰.۱ml) and indomethacin (۵mg/kg/day). All administrations were given orally for ۱۰ days. Daily changes in paw sizes were measured for ۱۰ days. Serum urea (BUN), ferritin (SF), serum creatinine (SC) and C-reactive protein (CRP) were also measured. The results showed that LJ, LJMHE and indomethacin produced consecutive reductions ($p < ۰.۰۵$) in paw sizes from the ۵th - ۱۰th day. LJ and LJMHE performed better than Indomethacin while ViC did not produce any significant reduction in paw size. Likewise, LJ, LJMHE and ViC increased ($p < ۰.۰۵$) BUN and reduced the serum concentration of CRP. There were no significant changes in the SF in groups treated with LJ (۲.۵mg/Kg) LJMHE and Indomethacin compared with control group (۱۳.۸۰ ± ۰.۶۰) whereas SF was increased in the groups treated with LJ (۵mg/Kg) and ViC (۲۱.۱۲ ± ۰.۷۸ and ۲۲.۳۸ ± ۰.۱۰ ng/ml respectively). The study established the anti-arthritic effect of Lime Juice and Lime Juice with Maize Husk Extract which might be via the inhibition of CRP.

کلمات کلیدی:

Arthritis, Citrus aurantifolia, Inflammation, Maize husk