

Antiinflammatory and Antinociceptive of Hydro Alcoholic Tanacetum balsamita L. Extract

Authors : S. Nasri, G. H. Amin, A. Azimi

Abstract : The use of herbs to treat disease is accompanied with the history of human life. This research is aimed to study the anti-inflammatory and antinociceptive effects of hydroalcoholic extract of aerial parts of "Tanacetum balsamita balsamita". In the experimental studies 144 male mice are used. In the inflammatory test, animals were divided into six groups: Control, positive control (receiving Dexamethason at dose of 15mg/kg), and four experimental groups receiving Tanacetum balsamita balsamita hydroalcoholic extract at doses of 25, 50, 100 and 200mg/kg. Xylene was used to induce inflammation. Formalin was used to study the nociceptive effects. Animals were divided into six groups: control group, positive control group (receiving morphine) and four experimental groups receiving Tanacetum balsamita balsamita (Tb.) hydroalcoholic extract at doses of 25, 50, 100 and 200mg/kg. I.p. injection of drugs or normal saline was performed 30 minutes before test. The data were analyzed by using one way Variance analysis and Tukey post-test. Aerial parts of Tanacetum balsamita balsamita hydroalcoholic extract decreased significantly inflammatory at dose of 200mg/kg ($P<0/001$) and caused a significant decrease and alleviated the nociception in both first and second phases at doses of 200mg/kg ($p<0/001$) and 100mg/kg ($P<0/05$). Tanacetum balsamita balsamita extract has the anti-inflammatory and anti-nociceptive effects which seems to be related with flavonoids especially Quercetin.

Keywords : inflammation, nociception, hydroalcoholic extract, aerial parts of Tanacetum balsamita balsamita L.

Conference Title : ICBSET 2014 : International Conference on Biological Science, Engineering and Technology

Conference Location : Istanbul, Türkiye

Conference Dates : April 22-23, 2014