



**EVALUATION OF THE ANTI-INFLAMMATORY ACTIVITY OF BIOGLUCUMIN: MIXTURE OF AQUEOUS EXTRACT OF TWO MEDICINAL PLANTS: (HERICIUMERINACEUS AND CURCUMIN) IN VIVO EXPERIMENTAL STUDY IN MICE (NMRI)**

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**ABSTRACT**

Inflammation is a process used to eliminate the pathogen and repair tissue damage. Many plants and herbs have been shown to exhibit potent anti-inflammatory effects. The present research aims to study the anti-inflammatory effects of a mixture of two medicinal plants: mushroom and curcumin (bioglucomine). The experiments were performed on the model of acute edema of the paw induced by carrageenan mice. The model was tested by aqueous extracts of bioglucomin at dose 100 mg/kg administered orally. Gavage was performed one hour before induction of acute inflammation with 1% carrageenan. The results obtained were compared with those of Diclofenac and those of physiological control. After oral administration of physiological saline, carrageenan significantly increased mouse paw volume by 71.97±15.06%, 51.06±4.46%, and 33.92±19.46%, respectively for 1h, 3h and 6h. Administration of Diclofenac (50 mg/kg, oral) significantly prevented the increase in mouse paw volume of 64.77±26.88%, 15.29±8.37%, and 0.51±0.59 respectively for 1h, 3h and 6h after administration of carrageenan. Oral administration of the aqueous extract of bioglucomin was carried out at the dose of 100 mg/kg 38.35±15.67%; 15.32±5.08%; 0±0%. The histological study of sections treated with Diclofenac and aqueous extract of bioglucomin (100 mg/kg) confirm that these treatments have anti-inflammatory activity. In addition, the inflammatory infiltrate disappears almost completely. The results of this study highlight the pharmacological bases of bioglucomin in traditional medicine to prevent inflammatory processes

**KEYWORDS:** *bioglucomin*, Mushroom, Curcumin, Anti-inflammatory, Edema, Aqueous extract

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