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## **Comparison of the anti-inflammatory effects of heated and unheated flower top hydroalcoholic extract of female *Cannabis sativa* on wistar rats.**

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**Purpose:** Inflammation is a pathologic response to peripheral damages that have signs such as warming, irritation, and swelling. Present study is to investigate and comparison the anti-inflammatory effects between the heated and unheated flower hydroalcoholic extracts of *Cannabis sativa*.

**Methods:** Heated and unheated extracts of flower top of female cannabis plant were prepared. A solution of Saline and DMSO were used as vehicle. 28 male wistar rats weighting 200-250g in four groups including: control, sham, heated flower extract and unheated flower extract (i.p. injected with 50 mg/kg) were tested by formalin-induced paw edema volume to measure inflammatory-induced paw edema with plethysmometric method.

**Results:** The unheated hydroalcoholic extract showed more anti-inflammatory effect on formalin-induced paw edema volume and reduced inflammatory-induced paw edema volume ( $p < 0.05$ ).

**Conclusion:** Carboxylated cannabinoids in unheated extract probably act as non-steroid anti-inflammatory drugs which have a carboxyl group and show strong inhibitory effects on cycloxygenase<sub>1,2</sub> and able to decrease the formalin-induced paw edema.

Keywords: Inflammation, Carboxylic cannabinoids, Female *Cannabis sativa* flower top