Assessment of *Urtica pilulifera* L. seed extracts effects on formalin-induced inflammation in rats

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**Introduction**: Considering the side effects inflammation treatments, the new and effective medicines are needed. *Urtica pilulifera* L. is a plant which introduced in Traditional Iranian Medicine (TIM) for treatment of inflammation.

**Method and Material**: For this study formalin-induced hind paw edema test was used in rats. Sodium Salicylate (300 mg/kg, i.p., S.S) as a positive control, methanolic (20 mg/kg; i.p. MUP) and aqueous extract of *U. pilulifera* seeds (20, 40 and 80 mg/kg AUP; i.p.) and distilled water (6 mL kg ; i.p.) groups was considered.

**Result**: In acute anti-inflammatory studies AUP in doses 40 and 80 mg/kg reduced paw edema significantly (P<0.05) and in chronic studies, MUP and all AUP doses had anti-inflammatory effects (P <0.05) which had no significant difference with the S.S.

**Discussion**: The results showed that AUP had significant effects on both acute and chronic anti-inflammatory studies whereas the MAP was effective in chronic one.

**Conclusion**: The results of this study approved the usage of *U. pilulifera* as anti-inflammatory medicine which mentioned in TIM literatures.

**Keywords**: *Urtica pilulifera* L., Inflammation, Formalin test, Traditional Iranian Medicine.