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## Acta Medica Iranica

2009;47(4) : 165-169

Anti-inflammatory and analgesic activity of methanolic extracts of aerial parts of *Stachys Schtschegleevii* Sosn. and *Stachys Balansae* Boiss. and Kotschy ex Boiss in rats

"Shamsali Rezazadeh, Abbas Kebryaezadeh, Morteza Pirali-Hamedani, Abbas Shafiee, Saeed Gharuni Isfahani "

### Abstract:

Extracts of the flowering aerial parts of *Stachys schtschegleevii* Sosn. and *S. balansae* Boiss. and Kotschy ex Boiss have been used in Iranian folk medicine as remedy for rheumatic and other inflammatory disorders and anti-inflammatory and analgesic effects of some species of *Stachys* e.g. *Stachys inflata* have been reported. In this study, the anti-inflammatory and antinociceptive properties of total methanolic extracts of the flowering aerial parts of two *Stachys* species in rat were investigated by carrageenan-induced paw edema and formalin test. Intraperitoneal injection of the extracts, 60 min before induction of inflammation, resulted in inhibition of carrageenan-induced rat paw edema in dose dependant manner (doses 50, 100 and 200 mg/kg). In the formalin test, the extract (50, 100 and 200 mg/kg) had low effect in the first phase (0-5 min) of the formalin-induced pain, but all three doses showed analgesic and anti nociception effects significantly. In conclusion the methanolic extracts of *Stachys schtschegleevii* and *Stachys balansae* have analgesic and anti-inflammatory effects in formalin test and carrageenan-induced paw edema.

### Keywords:

Analgesic , *Stachys schtschegleevii* , *Stachys balansae*

TUMS ID: 1965

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