

# Formulation and Evaluation of Two Anti-inflammatory Herbal Gels

*Miriam Fouad Yousif*

*Professor*

## **Abstract**

Two herbal gels expected to produce a topical anti-inflammatory activity were formulated, characterized and evaluated both phytochemically and biologically. The selected active ingredients were two tannin extracts (Q and G) obtained from *Acacia nilotica* Del. fruits (Qarad) and *Quercus infectoria* Oliv. galls (Oak gall). The total polyphenol content of the powdered drugs was estimated colorimetrically. The aqueous methanol (50 %) extracts of the investigated samples were individually incorporated, at different concentrations (0.5 - 2 mg/ml), into polyvinyl alcohol (PVA) hydrogels. Gallic acid was used as marker for HPLC standardization of the extracts and determination of drug content in the hydrogels. The anti-inflammatory activity was assessed by measuring the inhibitory effect of the extracts and hydrogels on xylene-induced ear edema in mice.

*JBAPN - 2011, January*