

EVALUATION OF TOPICAL LIPOSOME INCORPORATED CLOVE OIL IN THE TREATMENT OF IDIOPATHIC PALMAR HYPERHIDROSIS: SINGLE-BLINDED PLACEBO-CONTROLLED STUDY

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Introduction: Palmar hyperhidrosis is of great concern to patients because of its physical, occupational, and psychological impact on quality of life. Topical clove oil has been used in many conditions due to its major component eugenol that exerts blocking effect on nerve transmission.

Aim of the work: To assess the efficacy of topical liposome incorporated clove oil in decreasing the rate of sweating among patients with idiopathic palmar hyperhidrosis.

Patients & Method: 40 patients with palmar hyperhidrosis were treated with 45% clove oil in liposome and another 20 patients were treated as a control group with 0.9% saline solution and evaluation was carried out before and after treatment through gravimetry testing and hyperhidrosis disease severity scale (HDSS).

Result: The gravimetric testing among clove oil-treated group showed that the mean sweating rate before treatment was 80.5 ± 41.85 mg/min (SD) which decreased significantly after treatment to 52.98 ± 37.94 mg/min (SD) (P value < 0.001). On the other hand, the placebo-treated group (control) the mean sweating rate before treatment was 77.40 ± 29.29 mg/min (SD) which did not show significant improvement after placebo application 77.35 ± 28.29 (SD; P value = 0.957).

Conclusion: The topical application of 45% clove oil in liposome twice daily for 2 weeks showing promising result evidenced by declining in the rate of palmar sweating among patients with idiopathic palmar hyperhidrosis

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