**The effect of cotton plant extract in the treatment of leishmaniasis**

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**‌ Statement of Problem:** Leishmaniasis is one of the 10 most important diseases of the World Health Organization with health problems in more than 90 countries. The present human study was performed to evaluate the therapeutic effect of cotton plant on cutaneous leishmaniasis leision.  
**Research Purpose:** evaluate the therapeutic effect of cotton on cutaneous leishmaniasis.

**Research Method:** This double-blind randomized controlled clinical trial was performed on 88 cases of leishmaniasis wounds between the ages of 6 and 60 years. Patients were randomly divided into two groups of 44 cases. two groups received conventional treatment. In addition to the usual treatment (glucantime), the first group received cotton and the second group or control group received placebo. Glucantime treatment was performed according to national instructions and treatment with cotton plant extract was performed twice a day topically. Clinical evaluation of wound surface was measured in weeks 1 to 4, 8 and 12 and the effect of these topical products was evaluated by statistical tests.

**Results and Conclusion:** The results of the present study showed that the surface of lesion before the intervention and in the first to fourth weeks after the intervention was not significantly different between the two groups (P-value> 0.05). But the surface of lesion in the Intervention group in the eighth and twelfth weeks was lower than the control group (P-value <0.05).This study showed that the improvement of leishmaniasis lesion using topical cotton plant mark in the eighth and twelfth weeks after the intervention was significantly more than the control group . However, studies with a longer period and with a larger sample size and better treatment formulation are needed for better treatment.

**Keywords:** Leishmaniasis, Cotton plant, Iranian traditional medicine.