



The effect of camel hump fat oil on skin wounds healing in rabbits

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Abstract

*This study aimed to assess the efficiency of the camel hump fat oil from a one-humped camel (*Camelus dromedarius*) on surgical skin wound healing in the rabbit. The research was*

carried out on 6 rabbits, both male and female. Four circles of full-thickness skin wounds were made on the back of each animal under general anesthesia with a mixture of ketamine HCL 5% (35 mg/kg BW) and xylazine HCL 2% (5 mg/kg BW). Rabbits were divided into two equal groups (control and treated groups). The Control group let for healing without any treatment, while the treated group was treated with camel hump fat oil once daily for three days. Macroscopic parameters (percentage of wound contraction and healing time) were used to evaluate the efficacy of the camel hump fat oil on skin wound healing 7,14,21 days after surgery. The result showed a progressive reduction in the wound surface area with time, and a higher mean percentage of wound contraction was obtained in wounds treated with the camel hump fat oil. Also, the results showed that camel hump fat oil accelerated wound healing activity compared to the control group. Wound contraction was significantly higher (75.55 ± 3.84 , 100.00 ± 0.00 in 2nd and 3rd weeks respectively), and the healing time was faster (21.00 ± 0.00) in the treated group than in control one (26.00 ± 1.00). The study concludes that camel hump fat oil promotes significantly ($p < 0.05$) wound contraction and reduces the epithelization period in the rabbit model.

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