

عنوان مقاله:

Evaluation of the Healing Properties of the Crude Extract of *Ocimum gratissimum* Leaves on Excision Wound in Rabbit Bucks

محل انتشار:

دوفصلنامه جراحی دامپزشکی، دوره 17، شماره 2 (سال: 1401)

تعداد صفحات اصل مقاله: 11

نویسندگان:

Umeh Ifedioramma - Department of Veterinary Surgery and Radiology, College of Veterinary Medicine, Michael Okpara University of Agriculture, Umudike, Abia State, Nigeria

Babalola Samuel - Department of Veterinary Medicine, Surgery and Radiology, Faculty of Veterinary Medicine, University of Jos, Plateau State, Nigeria

Edoga Onu - Department of Veterinary Anatomy, College of Veterinary Medicine, Michael Okpara University of Agriculture, Umudike, Abia State, Nigeria

Chidi Ifenkwe - Department of Veterinary Physiology and Pharmacology, College of Veterinary Medicine, Michael Okpara University of Agriculture, Umudike, Abia State, Nigeria

خلاصه مقاله:

The wound-healing efficacy of the crude extract of *Ocimum gratissimum* leaf was evaluated in excision wound models. The parameters studied included; rate of wound contraction, period of complete epithelialisation in days, dermal toxicity and tensile strength of the excision wound. The means of wound area measurements among treatment animals at different time intervals were compared using one way ANOVA and post hoc test. The level of significance among the means was placed at  $p < 0.05$ . A significant wound healing efficacy was observed at 100% concentration, better than the Cicatrin wound healing effect. At the reconstituted concentrations of 25% and 50%, their efficacies were comparable to the reference drug used. The *Ocimum gratissimum* leaf crude extract at different reconstitutions was found to be very safe as no dermal toxicity or rash was recorded. The result showed that *O. gratissimum* possesses significant wound-healing activity which was evidenced by decrease in the period of epithelialisation, increase in the rate of wound contraction and skin-breaking tensile strength. It has been established that *O. gratissimum* contains alkaloids (anti-inflammatory and analgesic properties) as well as antimicrobial properties. These may be the lead to their wound healing effects. In conclusion, the use of *O. gratissimum* leaf crude extract at 100%, as a potent wound healing herb which reduces wound healing time and prevents the activities of micro-organism associated wound contamination with no dermal toxicity is hereby recommended. However, further studies need to be carried out to further expound the mechanism of action of *O. gratissimum* in wound healing as well as its systemic effect on animals

کلمات کلیدی:

*Ocimum gratissimum*, Crude extract, Rabbit bucks, Excision wound, wound healing, Cicatrin powder

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1989451>



