
Journal of Applied Veterinary Sciences, 7 (1): 1-5 (January, 2022).

ISSN: Online: 2090-3308, Print: 1687-4072

Journal homepage : <https://javs.journals.ekb.eg>



The Roles of Apigenin Cream on Wound Healing in Rabbits Model

ABSTRACT

This study aims to evaluate the healing effect of topical Apigenin cream 2% in the skin of rabbits. Twenty Four healthy Newzealand adult male rabbits approximately at the same age were involved in this study. All animals were anesthetized using a mixture of 40 mg/kg ketamine injection and xylazine 4 mg/kg intramuscularly. The skin of the dorsum area of each rabbit was shaved; then, three incisions (1cm in length) were made. Wounds were left without suturing to heal by secondary intention healing, and each animal had three wounds (wounds divided into three groups according to the type of treatment): one treated with Apigenin cream twice a day, the other with cold cream twice a day, and the third wound was left untreated. The application of cream was repeated daily; the wound size and the ratio of wound contraction were assessed at the first, fourth, and seventh days of study. The results revealed that the group treated with apigenin showed significantly better wound healing capacity in the skin of rabbits; wound size and wound contraction ratio was superior in the Apigenin group compared to control positive and negative groups. It can be concluded that apigenin cream has beneficial value for improving the wound healing potential of skin in rabbits.