EFFECTS OF HONEY ON WOUND HEALING IN MICE MODEL

Author: Vlad MIHU,

Scientific Coordinator: Ioan MARCUS, Pompei BOLFA, Orsolya SARPATAKI

University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372, Cluj-Napoca, Romania; mihuvlad_victor@yahoo.com

ABSTRACT

Honey is a traditional remedy for the treatment of infected wounds, and is becoming more important as microbial resistance to conventional therapeutic agents increases. A study was conducted to assess the wound-healing activity of honey using incision, excision, and wound models in mice. Wound healing represents a dynamic physiological process initiated and influenced by many factors. The process can be broadly categorized into four stages: haemostasis, inflammation, proliferation (consisting of granulation, contraction, and epithelization), and finally remodeling. Honey has long been used for treating wounds and other skin conditions and has been found to improve healing times, for example, in mild to moderate superficial and partial thickness burns, although evidence for efficacy in other conditions is inconclusive at present.

The mice were anesthetized with intraperitoneal ketamine hydrochloride and xylazine prior to the excision wound. Briefly, square was made on the dorsal thoracic region, of the anaesthetized mouse. The skin area had been shaved on the day of the experiment. The skin of the squared area was excised to its full thickness to produce a wound area of about 1cm².

KEYWORDS

Honey, wound healing, mice

REFERENCES

P.A.M. Overgaauw(1) J.Kirpensteijn(2) ‘‘Application of honey in the treatment of skin wounds” Tijdschrift voor Diergeneeskunde*(2005)130, p 115-116,F. Iftikhar, M. Arshad, F. Rasheed, D. Amraiz, P. Anwar and M. Gulfrz ‘’ Effects of Acacia Honey on Wound Healing in Various Rat Models’’ Published online in Wiley InterScience

DOI: 10.1002/ptr.2990