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Antibacterial activity and healing effect of bee honey on chronic wounds

Objective: The aim of the current prospective study is to evaluate the effect of topical application of honey to chronic non healed infected wound with necrotic tissue.

Methods: A 45 years old female was admitted to Khartoum North Teaching Hospital with open fracture of the distal tibia and fibula of the right lower limb with infected ulcerated wound. Swabs were taken for isolation, identification and viable count of the causative organisms. Primary care of the wound was done and dressing with MEBO ointment was used. Split skin graft and flap was performed. Topical application of honey was used instead of MEBO ointment.

Results: The isolated organism was identified as Staphylococcus aureus. Topical application of honey resulted in clean healthy granulation tissue after two weeks of treatment. Wound was reduced in size with healthy granulation tissue, and complete healing with prompt graft taking was obtained after 6 weeks of honey treatment.

Conclusion: Honey accelerates wound healing with promotion of healthy granulation tissue in short period. Honey exerted strong antibacterial activity against infected organism, and helped skin graft taking. Our study established the safety, efficacy and feasibility of topical application honey to promote healing of chronic non healed wound.

Biography

Mahasin Wadi completed the PhD from AL Neelain University , Medical Microbiology. Faculty of Medical Laboratory Sciences 2010 Khartoum Sudan. MSc. University of Khartoum, Sudan. Medical Microbiology & Pharmacology 1987. She joined work at Dar ALUloom University, College of Medicine, Riyadh , Saudi Arabia August 2014, She Worked at the central research laboratory Khartoum , Sudan. She joined work at King Saud University, Saudi Arabia, Riyadh 1988, Department of Clinical Laboratory Science, and Medical Microbiology. She worked in the area of Bee Honey as a natural antimicrobial product. She published a numbers of papers in reputed journals and Participated in many Internationals and national conferences. She issued a patent research about the antimicrobial activity of Sudanese bee honey. She attended many workshops and seminars. Awarded certificate of prestigious Author for the journal of Bacteriology &Parasitology 2011. Awarded a medal on participating in workshop at King Saud University Saudi Arabia 2011. Awarded many appreciation and thanks certificate in scientific activities. Member of many international associations: German Apitherapy Society, American Apitherapy Society, International Bee Research Association, European Society of Clinical Microbiology and Infectious Disease ESCMID and Sudanese Veterinary Association. She served as reviewer of various journals.

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