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Topical application of bee honey is effective dressing for diabetic septic foot

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Objective: This study aims to investigate the effect of honey dressing on diabetic septic foot not responding to conventional dressing.

Background: Honey is one of the most appreciated and valued natural products introduced to humankind since ancient times. The best characterized role of honey in wound healing is in the prevention and limitation of bacterial infection, thereby reducing the bioburden of the wound.

Method: Swabs were taken from wound surfaces of diabetic septic foot for identification, viable count determination of infecting organisms. The isolated organisms were subjected to sensitivity test for honey and some of the commonly used antibiotics. The wounds of diabetic patients were generously soaked with honey and the patients were given supportive treatment (Omdurman Teaching Hospital).

Result: The clinical isolate was sensitive to all tested honey samples. Daily application of honey on septic wounds of hospitalized patients, gave favorable results. These involved cleanliness of wounds, growth of healthy granulation tissue and prompt graft taking.

Conclusion: Use of honey against septic wound in hospitalized patient admitted for amputation above knee resulted in complete healing within one week. Honey seems to accelerate wound healing by early promotion of healthy granulation tissue. This attributed to its effectiveness in healing chronic infected wounds not responding to conventional antibiotics.

Biography

Mahasin Wadi completed her PhD from AL Neelain University, Medical Microbiology, Faculty of Medical Laboratory Sciences in 2010 and completed her MSc from University of Khartoum in Medical Microbiology & Pharmacology, 1987. She worked at Dar ALUloom University, College of Medicine, Riyadh, Saudi Arabia in August 2014; Central Research Laboratory Khartoum, Sudan; Department of Clinical Laboratory Science, and Medical Microbiology at King Saud University, Saudi Arabia, Riyadh in 1988. She worked in bee honey as a natural antimicrobial product and has published several papers in reputed journals and participated in many international and national conferences. She issued a patent research about the antimicrobial activity of Sudanese bee honey. She has attended many workshops and seminars and was awarded certificate of prestigious author for the *journal of Bacteriology & Parasitology 2011*. She was awarded a medal on participating in workshop at King Saud University Saudi Arabia 2011. She is a 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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