

Long Time Coming - Medihoney™ is also Gaining Ground in Pediatrics

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Editorial Note

The relevance of inexpensive but at the same time highly effective medicines is steadily increasing in today's society. It is therefore no wonder that medicinal honey, whose antibacterial effect was already known in Ancient Egypt, is becoming increasingly popular [1-11]. The active principles of medicinal honey have been largely deciphered today: The most important component of honey promoting the healing process is considered to be the enzyme glucosidase [5,8,11-20]. This enzyme permanently produces hydrogen peroxide, which has an antibacterial effect and thus has a positive influence on wound healing [5,8,11,13,17,19]. The cell-decomposing property, on the other hand, stems from the high osmolarity typical of sugar. Positive side effects of honey is that pain rarely occurs in the wound area and local or systemic side effects are absent, promoting tolerance for children [1,2,3,4,9,12]. Whether the characteristic antibacterial and anti-inflammatory mode of action of honey also applies to children and adolescents is being scientifically investigated in the Ped Mind Institute (PMI), which was founded in September 2010 [1,2,3,4]. By conducting bigger patient studies under the direction of Dr. Stefan Bittmann, the efficiency with different wound types as well as the healing process will be assessed in order to be able to optimize corresponding therapy measures with Medihoney™ especially for children and adolescents [1,2,3,4].

References

1. Bittmann S, Luchter E, Villalon G. The Role of Medical Honey (Medihoney) in Pediatric Medical Care: A Critical Review. J Clin Cases Rep 3(2): 59-65, 2019
2. Bittmann S, Luchter E, Weissenstein A, Villalon G. Medical honey and the role in pediatric emergency wound management. Journal of Pediatric Diseases, USA
3. Bittmann S. First results of treating pediatric wounds with medihoney: analysis of 60 cases. GSL J Pediatr 2018; 1:102, 3-4

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4. Weissenstein A, Luchter E, Bittmann S .Medical honey and its role in pediatric patients.Br J Nurs. 2014 Mar 27;23(6):S30-4
5. Tan ST, Wilkins AL, Molan PC, et al. A chemical approach to the determination of floral sources of New Zealand honeys. Journal of Agricultural Research 1989; 28(4): 212-22.
6. Allen KL, Molan PC, Reid GM. A survey of the antibacterial activity of some New Zealand honeys. Journal of Pharmacy and Pharmacology 1991; 43: 817-22.
7. Willix DJ, Molan PC, Harfoot CG. A comparison of the sensitivity of wound-infecting species of bacteria to the antibacterial activity of manuka honey and other honey. Journal of Applied Bacteriology 1992; 73: 388-94.
8. White JW, Reithof ML, Subers MH, et al. Composition of American honeys. US Dept Agr Tech Bull 1962; 1261: 1-124.
9. Bauer L, Kohlich A, Hirschweir R, et al. Food allergy to honey: pollen or bee products? Characterization of allergenic proteins in honey by means of immunoblotting. J Allergy Clin Immunol 1996; 97 (1): 65-73.
10. Postmes TJ, Bosch MMC, et al. Speeding up the healing of burns with honey. In: Mizrahi A, Lensky Y (eds), Bee Products: Properties, applications and apitherapy. New York, Plenum Press 1997; 27-37.
11. Molan PC. The antibacterial properties of honey. Chem in NZ 1995;10-14.
12. Zumla A, Lulat A. Honey-a remedy rediscovered. J Royal Soc Medicine 1989; 82: 384-5. Beck BF, Smedley D. Honey and your health. 2nd edn., New York: McBride, 1944
13. Molan PC. Why honey is effective as a medicine?-the scientific explanation of the effects. In Honey and healing (Munn P, Jones R eds). International Bee Research Association 2001.
14. Moore OA, Smith A, Campbell F, et al. A systematic review of the use of honey as a wound dressing. BMC Complementary and Alternative Medicine 2001; 1(1) 2.
15. Fox C. Honey as a dressing for chronic wounds in adults. British Journal of Community Nursing 2002; 10: 530-534.
16. Gethin G. Is there enough clinical evidence to use honey to manage wounds? Journal of Wound Care 2004; 7: 275-278.
17. Cooper RA, Molan PC, Krishnamoorthy L, et al. Manuka honey used to heal a recalcitrant surgical wound. Eur J Clin Microbiol Infect Dis 2001; 20 (10): 758-759.
18. Dixon B. Bacteria can't resist honey. Lancet Infect Dis 2003; 3 (2): 116.
19. Lusby PE, Coombes A, Wilkinson JM. Honey: a potent agent for wound healing? J Wound Ostomy Continence Nurs 2002; 29 (6): 295-300.
20. Molan PC. Potential of honey in the treatment of wound and burns. Am J ClinDermatol 2001; 2 (1): 13-9.
21. Sofka K , Wiszniewsky G , Blaser G , et al . Antibakterieller Honig (Medihoney™) zur Wundpflege-Wundantiseptik bei pädiatrischen Patienten in der Hämatologie -Onkologie? KrhHygInfverh 2004; 26 (5): 183-7.