Historical use of topical O₂ in Medicine

Function of honey:

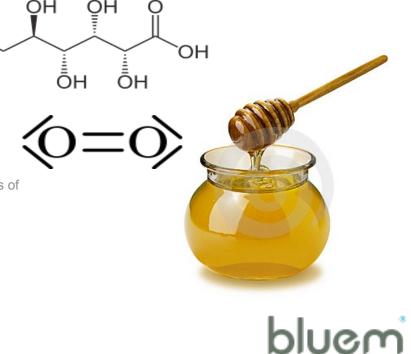
- It draws fluid away from your wound
- The high sugar content suppresses microorganism growth
- Worker bees secrete an enzyme (glucose oxidase) into the nectar, which then releases low levels of hydrogen peroxide when the honey makes contact with your wound

HC

- Glucose oxidase (Gox)
- Gluconacid and oxygen

Clinical trials have found that honey, made with pollen gathered from the flowers of the Manuka bush (a medicinal plant), can effectively eradicate more than 250 clinical strains of bacteria, including resistant varieties such as:

- •MRSA (methicillin resistant Staphylococcus aureus)
- •MSSA (methicillin sensitive Staphylococcus aureus)
- •VRE (vancomycin-resistant enterococci)
- •Helicobacter Pylori (which can cause stomach ulcers)



innovation in implant care

Honey, an additional ingredient in Bluem

A Comparative Evaluation of the Antibacterial Efficacy of Honey and Anti plaque Efficacy in a 4-Day Plaque Regrowth Model: J Periodontol • September 2012

Results:

• The honey mouth rinse effectively inhibited the six tested microorganisms*. The in vivo results revealed that plaque formation was inhibited/reduced by chlorhexidine and honey rinses.

Conclusion:

• Honey has antibacterial action against tested oral microorganisms and also has anti plaque action. J Periodontol 2012;83:1116-1121.

A Comparative Evaluation of the Antibacterial Efficacy of Honey In Vitro and Antiplaque Efficacy in a 4-Day Plaque Regrowth Model In Vivo: Preliminary Results

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Background: Honey has a potent braid-spectrum artifacter rial action that may make it suitable for "anti-infective" treatment of perioducial disease. The aims of this study are as follows: 1) to evaluate the antibacterial efficacy of honey against call bacteria and compare the same with 0.2% chortexidine; and 2) to compare antiplaque efficacy in vivowith chloritexidine; Methods: The tudy was conducted in two parts. In thein witho

Methods: The study was conduced in two parts. In the in vitro and the inhibitory effects of three test agents, 0.2% (old-netdine gluconate, honey mouthwash, and saline, against six oral bacteria at concentrations of 1, 2, 4, 8, 16, 32, 64, 128, 256, and 912 µg/ml, were tested in duplicate. The minimum inhibtory concentration (MC) was set as the lowest concentration of the agent that compiletely inhibited the growth of the test species. Then involvent consisted of adouble-masked parallel dinlical traft based on a 4-day plaque regrowth model. Skity-site volumeters, 20 to 24 years of age, participated in the study, end of 4 days. The Knukal-Walls set was used for significance and the Mann-Withiney (Hest was used for significance of the groups. The mean plaque scores were 1.77 ± 0.68, 1.64 ± 0.90, and 3.27 ± 0.033 for groups 1.2, and 3, negetively, Results: The honey mouthrinse effectively inhibited the site test and minimismism. The chinkedine glucontare rines had

Results: The honey mouthrinse effectively inhibled the six tested microarganisms. The chlorheading eluconate rinse had the lowest MICs compared with honey and saline rinses for all test species examined. Their vito results revealed that plaque formation was inhibled/reduced by chlorheadine and honey riness. Conclusion: Honey has antibacterial action against tested oral microorganisms and also has antiplaque action. J Paridontol 2012;83:1116-1121.

KEY WORDS

Antibacterial agents; chlorhexidine; dental plaque; honey; mouthwashes, minimum inhibitory concentrations.

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Periodontitis is an inflammatory disense, assiciated with pathogenic microrganisms colonking tooth aufraces in a succeptible host. Undersite and the second se

Mouthninses have been used for conturies for medicinal and cosmetic purposes and have gained popularity worldwide. The advent of mouthrinese containing chlothexidine was a major breakthroughtinthe search for a chemical means to prevert periodontal disease. Since then and sepscially in the past 10 years, the number of formulations that claim to have antiplaque, anticlaciuus,

in implant care

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* Predominant oral bacterial speciesoral bacterial species	Classification	Periodontitis	Peri- implantitius	Dental Plaque	Caries
Eubacterium nodatum	Anaerobic	Х			
Streptococcus mutans	Anaerobic				X
Campylobacter rectus	Anaerobic	X			
Streptococcus sangiunis	Aerobic			Χ	
Aggregatibacter actinomycetemcomitans	Anaerobic	Х			
Porphyromonas gingivalis	Anaerobic	X	Х		