

Immediate effect of xylitol chewing gum and mouth rinse on salivary levels of mutans streptococci in adults with systemic sclerosis: a pilot study

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Summary

Objective: To compare the immediate effect of xylitol chewing gum and xylitol mouth rinse on mutans streptococci (MS) levels in the saliva of adults with systemic sclerosis (SSc).

Methods: Thirteen female adults with SSc were assigned randomly to either the xylitol chewing gum or xylitol mouth rinse groups. Participants in the chewing gum group were given 2 pellets (2.12g) of commercial xylitol chewing gum to chew for 10 min, whereas participants in the mouth rinse group were given 10 ml (10%) [w/v] of xylitol solution to rinse orally for 2 min. MS samples were collected using *Dentocult[®] SM Strip mutans* before and after xylitol exposure.

Results: No significant difference in the change scores of MS levels between the two groups was observed at post xylitol exposure.

Conclusion: Mouth rinse may provide an alternative mode of xylitol delivery for this population.

Key words:

Mutans streptococci;
Systemic sclerosis; Xylitol

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Introduction

Systemic sclerosis (SSc) belongs to a group of autoimmune connective tissue disorders, which are characterized by inflammation and excessive fibrosis of connective tissue [1]. SSc affects the oral and peri-oral tissues as well as skin and musculoskeletal tissue on the hands. Orofacial complications (microstomia and xerostomia), and manual dexterity impairments (loss of finger pad tissue, digital ulcers, and hand deformity) are two major clinical manifestations that may interfere with normal oral hygiene and contribute to increase risk of oral health problems in people with SSc [2, 3]. Compared to sex-matched healthy controls, a higher proportion of people with SSc exhibited more dental caries experience, and periodontal disease [4, 5]. With a high risk of dental disease in this population, plaque removal from tooth surfaces through regular oral self-care is essential.

Xylitol, a naturally occurring sugar alcohol sweetener, has been shown to decrease mutans

streptococci (MS) levels, plaque formation, and the incidence of caries [6-10]. Although xylitol chewing gum has shown promise as an anticariogenic agent it may not be practical for people with SSc. A large proportion of people with SSc suffer from conditions such as osteolysis, temporomandibular disorders, and trigeminal neuropathy, which can lead to facial pain during prolonged repetitive movements such as chewing gum [4, 5, 11, 12]. In this patient population, an aqueous form of xylitol, such as a mouth rinse, may be a useful alternative delivery system. In addition to reduced preparation costs, an oral xylitol solution that is expectorated may circumvent gastrointestinal complaints such as diarrhea in people who are less tolerant to high doses of xylitol [13]. The objective of this study is to compare the immediate effect of xylitol chewing gum and xylitol mouth rinse on MS levels in the saliva of adults with SSc.

The Effect Of Xylitol Chewing Gum On Mutans Streptococci

Michael Seilmaier



The Effect Of Xylitol Chewing Gum On Mutans Streptococci:

Evidence-Based Caries Prevention Ece Eden,2016-09-29 This book aims to define the etiological factors in dental caries and to guide the clinician towards methods of caries prevention that are evidence based The coverage includes discussion of the active role of the biofilm and the oral environment and emphasizes the multifactorial etiology of dental caries The opening chapters describe the early detection and diagnosis of dental caries highlight the value of caries risk assessment to the patient and explain the dynamic process of the demineralization remineralization cycle Information is presented on the action of fluoride and the evidence relating to the use and effectiveness of remineralization agents and biomimetic materials is reviewed Additionally the effects of antimicrobials such as chlorhexidine and ozone are summarized Further chapters focus on dietary counseling with information on sweeteners and probiotics the effectiveness of sealants in caries prevention and resin infiltration The philosophy of prophylaxis and ways to improve patient compliance and achieve proper mechanical plaque removal are discussed The book is concluded with a chapter discussing preventive actions in representative cases

Sweeteners and Sugar Alternatives in Food Technology Kay O'Donnell,Malcolm Kearsley,2012-07-13 This book provides a comprehensive and accessible source of information on all types of sweeteners and functional ingredients enabling manufacturers to produce low sugar versions of all types of foods that not only taste and perform as well as sugar based products but also offer consumer benefits such as calorie reduction dental health benefits digestive health benefits and improvements in long term disease risk through strategies such as dietary glycaemic control Now in a revised and updated new edition which contains seven new chapters part I of this volume addresses relevant digestive and dental health issues as well as nutritional considerations Part II covers non nutritive high potency sweeteners and in addition to established sweeteners includes information to meet the growing interest in naturally occurring sweeteners Part III deals with the bulk sweeteners which have now been used in foods for over 20 years and are well established both in food products and in the minds of consumers In addition to the traditional polyol bulk sweeteners newer products such as isomaltulose are discussed These are seen to offer many of the advantages of polyols for example regarding dental health and low glycaemic response without the laxative side effects if consumed in large quantity Part IV provides information on the sweeteners which do not fit into the above groups but which nevertheless may offer interesting sweetening opportunities to the product developer Finally Part V examines bulking agents and multifunctional ingredients which can be beneficially used in combination with all types of sweeteners and sugars

Comprehensive Preventive Dentistry Hardy Limeback,2012-04-11 Comprehensive Preventive Dentistry provides one user friendly resource that brings together information on the scientific basis and clinical practice of all aspects of preventive dentistry This thorough and all encompassing resource offers techniques and strategies for maintaining excellent oral health in patients through a regimen of preventive measures Comprehensive Preventive Dentistry is grounded in a patient centered pre-emptive and minimally

invasive philosophy The book begins by covering individual diseases such as caries periodontitis and oral cancer as well as therapies sealants fluoride and other relevant conditions toothwear hypersensitivity Additionally concepts such as the role of diet and nutrition in oral health are discussed Also covered are oral care products and new technological developments in caries diagnosis and risk assessment periodontal disease and oral cancer as well as new developments in home care products A valuable and comprehensive companion that will appeal to dentists and dental hygienists this helpful new book provides its readers with one authoritative resource that offers a reliable and helpful companion to practicing preventive dentistry

American Journal of Dentistry, 1995 **Influence of Sugar and Sugar Alcohols on Mutans Streptococci** Kerstin Wennerholm, 1994 **ASDC Journal of Dentistry for Children**, 2002 **Acta Odontologica Scandinavica**, 2004
Reference Manual, 2007 Mutans Streptococci in Human Dentition Birgitta Lindquist, 1991 **The Journal of Clinical Dentistry**, 1993 *On Mutans Streptococci in Margins of Restorations* Catarina Wallman, 1994 Chemical Abstracts, 2002 **Pharmacology and Therapeutics in Dentistry**, 1979 **Food Constituents and Oral Health** M. Wilson, 2009-04-29 Oral diseases can have a significant impact on self esteem and quality of life This essential collection reviews the latest research into the effects of food constituents on diseases and conditions of the mouth Chapters cover diseases caused by oral bacteria viral and fungal infections of the oral cavity and dental erosion The book also examines the effects of specific foods and food components including sugar alcohols casein phosphopeptides and antioxidants The final section explores the technology and development of foods and supplements for oral health and oral healthcare products containing food derived bioactives Publisher description *Quintessence International*, 2009 *A Study on the Effectiveness of Povidone Iodine Foam Against Oral Cariogenic Bacteria in Children with Active Caries* Natasha Brambila, 2005 *Evidence-based Dentistry* Mark V. Thomas, 2009 Guest editor Mark Thomas offers readers the latest in evidence based dentistry Topics will include incorporating evidence based dentistry into the classroom and the private practice clinical setting risk assessment of periodontal disease and quantifying efficacy and risk Specific evidence based decision making articles will feature amalgam versus composite single tooth replacement the asymptomatic third molar effectiveness of sealants caries risk assessment and treatment and much more *The Journal of the American Dental Association* American Dental Association, 1984 **Effects of Povidone-iodine Foam in Children with Active Decay** Purvi Kachalia-Zavery, 2007 *Fundamentals of Operative Dentistry* James B. Summitt, 2006 Focusing on the management of caries as a disease and the restoration of individual teeth the 20 chapters in this textbook describe direct conservative fillings fabricated from dental amalgam resin composite and resin ionomer materials and techniques for partial and complete coverage indirect restorations of gold alloy porcelain metal ceramic

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