

Efficacy of chemomechanical caries removal in reducing cariogenic microbiota: a randomized clinical trial

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Abstract: The aim of this study was to compare the efficacy of chemomechanical methods (Carisolv™ and Papacárie®) versus the manual method (excavators) in reducing the cariogenic microbiota in dentine caries of primary teeth. Forty-six healthy children (5 to 9 years old) having at least one primary tooth with a cavitated dentine carious lesion were included in the study. The teeth presented no clinical or radiographic signs of pulpal involvement. The sample of 74 teeth was randomly divided into three different groups: Papacárie® (n = 25), Carisolv™ (n = 27) and Manual (n = 22). Samples of carious and sound dentine were collected with sterile excavators before and after caries removal in the three groups. The dentine samples were transferred to glass tubes containing a 1mL thioglycollate medium used as a carrier and enriched for microbiological detection of mutans streptococci and Lactobacillus spp. after incubation for 6h at room temperature. The minimum detection value for colony forming units (CFU) was 3.3×10^2 CFU/ml, and the results were converted into scores from 0 to 4. A significant difference was observed in relation to the microbiological scores before and after caries removal for all methods (Wilcoxon test; $p < 0.001$). The use of chemomechanical methods for caries removal did not improve the reduction of cariogenic microorganisms in dentine caries lesions, in comparison with manual excavation.

Keywords: Dental Caries; Papain; Microbiology; Tooth, Deciduous.

Introduction

The therapeutic approach to carious dentine lesions has been reconsidered by the scientific community over time as a way to preserve as much tooth structure as possible, increase the longevity of teeth and prevent the repetitive restorative cycle.^{1,2,3} Based on the minimal invasive dentistry concept, more conservative approaches have been recommended,^{4,5} such as partial caries removal,⁶ atraumatic restorative treatment⁷ and chemomechanical methods,^{8,9} instead of conventional caries removal by drilling and manual excavation.

Although the chemomechanical system was developed over 30 years ago, it only started to gain attention in the late 90s, when Carisolv™ was released on the market and began to be used widely. This system involves application of a gel composed of an amino acid solution and sodium hypochlorite, which are able to dissolve collagen fibers degraded

Chemomechanical Caries Removal In Children Efficacy And

J. R. Pinkham



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Chemomechanical Vs. Traditional Caries Removal in Children Michael Hal Flamenbaum, 2002 **Randomized Controlled Trials in Evidence-Based Dentistry** Richie Kohli, Harjit S. Sehgal, Peter Milgrom, 2024-04-16 This book reviews the role of randomized controlled trials RCTs in clinical dentistry explains how to successfully conduct RCTs related to dentistry and provides detailed information on the use of RCTs within each of the dental specialties Although RCTs represent the gold standard in evidence based dentistry for evaluation of the effects of an intervention a textbook on the subject has to date been lacking Randomized Controlled Trials in Evidence Based Dentistry will fill this educational gap and improve the confidence of dental providers researchers and their multidisciplinary teams in conducting high quality RCTs in a variety of settings and different parts of the world In particular it will enable readers to implement a suitable step by step approach to RCTs identify possible solutions to common challenges when performing RCTs in individual dental specialties and apply these solutions to their own RCT projects **Preservation and Restoration of Tooth Structure** Graham J. Mount, Wyatt R. Hume, Hien C. Ngo, Mark S. Wolff, 2016-04-22 Combining the approaches of preventative and restorative dentistry this is a revised and updated guide to the clinical techniques and procedures necessary for managing tooth disorders and disease Introduces minimally invasive dentistry as a model to control dental disease and then restore the mouth to optimal form function and aesthetics Contains several student friendly features including a new layout line drawings and clinical photographs to illustrate key concepts Covers fundamental topics including the evolutionary biology of the human oral environment caries management and risk assessment remineralization principles of cavity design lifestyle factors choices between restorative materials and restoration management Includes a companion website with self assessment exercises for students and a downloadable image bank for instructors Natural Oral Care in Dental Therapy Durgesh Nandini Chauhan, Prabhu Raj Singh, Kamal Shah, Nagendra Singh Chauhan, 2020-02-11 Because of increasing antibiotic resistance stronger antibiotics are reserved for serious active infection paving the way for a greater use of herbal antibiotics This book helps dentists in implementing safe and effective natural medicine therapies to complement the current practice guidelines Oral diseases continue to be a major health problem world wide Oral health is integral to general well being and relates to the quality of life that extends beyond the functions of the craniofacial complex The standard Western medicine has had only limited success in the prevention of periodontal disease and in the treatment of a variety of oral diseases The dentist needs to be more informed regarding the use safety and effectiveness of the various traditional medicines and over the counter products Herbal extracts have been used in dentistry for reducing inflammation as antimicrobial plaque agents for preventing release of histamine and as antiseptics antioxidants antimicrobials antifungals antibacterials antivirals and analgesics They also aid in healing and are effective in controlling microbial plaque in gingivitis and periodontitis and thereby improving immunity The 26 chapters in this unique book explore all the measures to utilize the natural oral care

obtained from plants animals and mineral drugs for dental care

Textbook of Pediatric Dentistry Nikhil

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Paediatric Dentistry Richard Welbury, Monty S. Duggal, Marie Thérèse Hosey, 2018-03-08 This new edition of Paediatric Dentistry is a trustworthy guide to the essentials of paediatric dentistry for both students and practitioners alike Written in a user friendly style this textbook contains over 18 fully up to date and comprehensive chapters All content has been carefully structured to ensure the reader is provided with both key theoretical and practical information on paediatric dental care Chapter content ranges from dental trauma and child safeguarding through to prevention and restorative treatments in addition to further content on oral surgery and paediatric oral medicine Each chapter is complemented by the use of key point boxes full colour illustrations and photographs to enhance the understanding clinical technique With recommended further reading and extensive key references this core text also encourages students to critically analyse and evaluate evidence Edited by a team of experts in the field this is an excellent introduction to the field of paediatric dentistry for both undergraduate and post graduate students as well as a key source of reference for practising clinicians

Medical Principles and Practice ,2002

Acta Odontologica Scandinavica ,1999

Dentistry ,1989

Quintessence International ,1990

Diagnosis and Management of Dental Caries ,2000

Diagnosis and

Management of Dental Caries Daniel A. Shugars,2001

Pediatric Dentistry J. R. Pinkham,2005 With topics organized

by patient age this book covers all aspects of pediatric dentistry Each age specific section covers the physical cognitive emotional and social changes that children experience as well as the epidemiology of dental disease at that age

BOOK

JACKET **Ozone** Edward Lynch,2004 Recent technical advances have made it possible to use ozone to small areas of dental hard tissues in the treatment of dental caries This volume provides an overview of the technique covering among other topics the history of ozone clinical applications mechanisms of action safety aspects required equipment evidence based research on the tr

An in Vitro Study to Compare the Efficacy of Chemomechanical Caries Removal Using

Carisolv™ and Conventional Excavation by Drilling C. Moran,1999 *Indian Science Abstracts* ,2003-03 *Acta stomatologica croatica* ,1998 *Index to Dental Literature* ,1978 Beginning with 1962 references are not limited to material in the English language

Influence of Chemomechanical Caries Removal Methods on Dentine Hamdi Hosni Hamdan Eldesouki Hamama,2017-01-27 This dissertation Influence of Chemomechanical Caries Removal Methods on Dentine by Hamdi Hosni Hamdan Eldesouki Hamama was obtained from The University of Hong Kong Pokfulam Hong Kong and is being sold pursuant to Creative Commons Attribution 3.0 Hong Kong License The content of this dissertation has not been altered in any way We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation All rights not granted by the above license are retained by the author

Abstract Chemomechanical caries excavation is an excellent example of conservative caries removal methods due to its ability to reliably preserve a greater thickness of caries affected dentine CAD Chemomechanical caries removal CMCR agents dissolve the denatured collagen fibrils leaving the sound and partially degraded fibrils intact Also one of the main advantages of the CMCR method is its characteristic visual excavation end point sign after this point the solution fails to become turbid Chemomechanical caries removal agents are classified based on their chemistry into sodium hypochlorite NaOCl or enzyme based CMCR agents The aim of this project was to evaluate the efficacy of currently available chemomechanical caries removal methods and their effects on tooth substrate residual bacteria and bonding to dentine with either resin or resin modified glass ionomer RM GIC based adhesives The current project was designed to answer five research questions The first research question aimed to compare the caries excavation time between CMCR and rotary caries removal methods According to the outcome of this study the NaOCl based CMCR method is more time consuming compared with the enzyme based CMCR method Furthermore no significant difference in caries excavation time was found between the enzymebased CMCR and the caries detector guided rotary caries excavation method The second research question investigated the effects of CMCR methods on surface topography hardness and chemical structure of dentine The morphological analysis showed that there was no smear layer formed following enzyme based CMCR while it was partially absent after the NaOCl based CMCR method Also the Vickers hardness of residual dentine following both CMCR methods was lower than the hardness of dentine following the rotary caries removal method Moreover the outcome of this study also revealed that the CMCR methods investigated had no adverse effect on the chemical structure of dentine The third research question was regarding the evaluation of the antibacterial effects of CMCR agents Accordingly a study was conducted on coronal cariesfree dentine discs using a modified non invasive protocol This confocal laser scanning microscopy study reported that the enzyme based CMCR agent Papacarie showed an antimicrobial effect similar to 2% chlorhexidine gluconate solution gold standard antibacterial solution The NaOCl based CMCR agent Carisolv showed a weak antibacterial activity which could be improved by subsequent application of a silver diamine fluoride and potassium iodide agent The adhesion studies section of this project consists of three studies and was conducted to answer

the fourth and fifth research questions of this project The outcomes of the first and second studies showed that surface treatment of dentine with 37% phosphoric acid for 5 seconds had no adverse effect on bonding of RMGIC adhesives to both sound and caries affected dentine which addressed the fourth research question The purpose of the last research question was to evaluate the effect of CMCR method on bonding of MDP containing self etch and RM GIC adhesives to residual caries affected dentine It was concluded that CMCR methods had no adverse effects on bonding to dentine and both adhesive systems showed good bond strengths to caries affected dentine DOI 10 5353 th_b5295520 **Dental Economics** ,2009

The book delves into Chemomechanical Caries Removal In Children Efficacy And. Chemomechanical Caries Removal In Children Efficacy And is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Chemomechanical Caries Removal In Children Efficacy And, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Chemomechanical Caries Removal In Children Efficacy And
 - Chapter 2: Essential Elements of Chemomechanical Caries Removal In Children Efficacy And
 - Chapter 3: Chemomechanical Caries Removal In Children Efficacy And in Everyday Life
 - Chapter 4: Chemomechanical Caries Removal In Children Efficacy And in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Chemomechanical Caries Removal In Children Efficacy And. This chapter will explore what Chemomechanical Caries Removal In Children Efficacy And is, why Chemomechanical Caries Removal In Children Efficacy And is vital, and how to effectively learn about Chemomechanical Caries Removal In Children Efficacy And.
 3. In chapter 2, the author will delve into the foundational concepts of Chemomechanical Caries Removal In Children Efficacy And. This chapter will elucidate the essential principles that need to be understood to grasp Chemomechanical Caries Removal In Children Efficacy And in its entirety.
 4. In chapter 3, this book will examine the practical applications of Chemomechanical Caries Removal In Children Efficacy And in daily life. The third chapter will showcase real-world examples of how Chemomechanical Caries Removal In Children Efficacy And can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Chemomechanical Caries Removal In Children Efficacy And in specific contexts. This chapter will explore how Chemomechanical Caries Removal In Children Efficacy And is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Chemomechanical Caries Removal In Children Efficacy And. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Chemomechanical Caries Removal In Children Efficacy And.

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