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Materials, Chemicals and Methods for Dental Applications

Quintessence International, Dental Digest

Welcome to this 'novice's guide'. At last a book that explains the real science behind the cosmetics we use. Taking a gentle approach and a guided journey through the different product types, we discover that they are not as superficial as often thought and learn that there is some amazing science behind them. We shall uncover some of the truths behind the myths and point out some interesting facts on our way. Did you know? Vitamin E is the world's most used cosmetic active ingredient. At just 1mm thick, your amazing skin keeps out just about everything it's exposed to - including your products! A 'chemical soup' of amino acids, urea, mineral salts and organic acids act as 'water magnets' in the skin keeping it naturally moisturised. Discovered centuries ago, iron oxides (yes, the same chemicals as rust) are still commonly used inorganic pigments in foundations. A lipstick is a fine balance of waxes, oils and colourants to keep the stick stable and leave an even gloss on your lips.

Books and Package Libraries for Dentists

All-in-one resource in for everything related to fluoridated water, from its impact on dental health to its safety and cost-effectiveness. Dispelling common myths that fluoridation is dangerous, this book provides science-backed information based on the most current research in Q&A format. This is the most in-depth and up-to-date educational resource available regarding fluoridated water, from the American Dental Association.

Proceedings of the 2nd European Workshop on Periodontology

Use your knowledge of pharmacology to enhance oral care! Pharmacology and Therapeutics for Dentistry, 6th Edition describes how to evaluate a patient's health and optimize dental treatment by factoring in the drugs they take. It explores the basic fundamentals of pharmacology, special topics such as pain control, fear and anxiety, and oral complications of cancer therapy, and most importantly, the actions of specific drug groups on the human body. Whether you're concerned about the drugs a patient is already taking or the drugs you prescribe for treatment, this book helps you reduce risk and provide effective dental care. An emphasis on the dental applications of pharmacology relates drugs to dental considerations in clinical practice. Dental aspects of many drug classes are expanded to include antibiotics, analgesics, and anesthetics. The Alternative Medicine in Dentistry chapter discusses chemicals used as alternative medicines and assesses their potential benefits and risks. The Nonopioid Analgesics chapter groups together non-opioid analgesics, nonsteroidal anti-inflammatory drugs, and antirheumatic and antigout drugs, making these easier to locate and study. Coverage of the endocrine system includes four separate chapters for the most comprehensive coverage. Drug Interactions in Clinical Dentistry appendix lists potential interactions between drugs a patient is taking for nondental conditions and drugs that may be used or prescribed during dental treatment, including effects and recommendations. Glossary of Abbreviations appendix includes the most common abbreviations used for drugs or conditions. New Pharmacogenetics and Pharmacogenomics chapter covers the effects of genetic traits of patients on their responses to drugs. A NEW introductory section offers tips for the study of dental pharmacology and relates pharmacology to dental considerations. An updated discussion of drug-drug interactions covers the harmful effects of mixing medications. Coverage of adverse effects and mechanisms of COX-2 inhibitors, antibiotic prophylaxis, and antiplaque agents explains the dental risks relating to common drug treatments.

Dental Erosion

1. Formation of Dental Caries; 2. Anticaries Mechanisms of Fluoride; 3. Fluoride Metabolism; 4. Water Fluoridation; 5. Dietary Fluoride Supplementation; 6. Chemistry of Topical Fluoride Treatment; 7. Professionally Applied Topical Fluoride; 8. Fluoride Dentifrices; 9. Self-applied Topical Fluoride.

Preventive Materials, Methods, and Programs

This fourth volume in a series of five on preventive dentistry describes some materials, methods and programs used to prevent dental caries and periodontal disease. Coverage includes both self-care and professional methods of mechanical and chemical plaque control and the use of fluorides and fissure sealants. The final three chapters are devoted t

Annals of dentistry. New Series

Providing a current overview of how physical, chemical and biochemical aspects of

the oral environment influence tooth condition, this publication covers caries, calculus, tooth wear and erosion, and the roles of pellicle, saliva and plaque in inducing and/or moderating these conditions. It highlights topics such as new intra-oral and laboratory methods to assess tooth wear, the latest ideas on de- and re-mineralisation processes involving enamel and dentine, new insights into the tooth structure-function relationship and the site specificity of anticaries treatments. Reviews of pellicle function and of the inverse relationship between caries and calculus complete the volume. This book is recommended to all oral care scientists, laboratory and clinical researchers alike, and to lecturers in dental medicine.

Pharmacology for Health Professionals ebook

This handbook distils the most up-to-date theory and practical information on dental erosion and dentin hypersensitivity into an accessible and practical clinical guide for general dental practitioners, dental students, dental educators, and other health professionals. Topics are covered in a step-by-step, easy-to-understand manner, with tables, checklists, images, flowcharts, and bullet point-like presentation of core messages that is ideal for busy dental practitioners and students. Besides providing evidence-based guidance on treatment and prevention strategies, the book examines thoroughly the dental erosion process itself and the intrinsic and extrinsic causes. Chapters are also included on the etiology, prevalence, and management of dentin hypersensitivity, the restoration of worn dentin, and non-cariou cervical lesions. The authors are renowned, clinically active international experts in different aspects of dental erosion and its management.

Oral Biofilms

Fluoridation Facts

The Teeth and Their Environment

This handbook has the goal of providing a short and objective approach to the diagnosis and management of common oral lesions and conditions likely to be encountered in the daily practice of dentistry by the general practitioner. Each of the lesions/conditions will be grouped based on their nature, inflammatory or infectious, benign or malignant, variants of normal, bony lesions, etc. The individual lesion/condition will be described based on common clinical signs and symptoms, differential diagnosis, best approach for diagnostic confirmation, and brief management strategy. One of the chapters is dedicated to oral hygiene and oral health maintenance recommendations. Diagnosis and Management of Oral Lesions and Conditions: A Resource Handbook for the Clinician has been produced and distributed through an educational grant from the Colgate-Palmolive Company.

The Journal of the Royal College of General Practitioners

Advancing Oral Health in America

The surfactants are among the materials that have a significant importance in everyday life of human. The rapid growth in science and technology has opened new horizons in a very wide range, in which the surfactants play a major and vital role. Hence, the increasing number of applications as well as arising environmental issues has made this relatively old topic still a hot research theme. In the first section of this book, some of the applications of surfactants in various fields such as biology and petroleum industry, as well as their environmental effects, are described. In Section 2 some experimental techniques used for characterization of the surfactants have been discussed.

Pharmacology and Therapeutics for Dentistry - E-Book

Case reports and clinical trials conducted in various countries show, more and more frequently, a positive correlation between the presence of original teeth and prevalence of root caries in older age. Because this is a global trend, it is likely that the predicted increase in the worldwide elderly population may soon cause a significant increase in the number of people requiring effective means of preventing and treating root surface caries. In response to this development, a team of outstanding contributors has reviewed the most important aspects of root caries. This new volume presents their findings along with discussions of how to deal with this health issue that progressively affects the oral health balance. The chapters in this book are divided in four core parts: Epidemiology, Biological Determinants, Lesion Assessment and Features and Preventive and Operative Therapies. The collection of state-of-the-art articles provides a broad overview and will serve as a reference for clinicians as well as scientists and, hopefully, will encourage new research.

Fluoride Toothpaste

Food consumed affects many aspects of oral health. The principal association of interest to scientists is that between carbohydrate and dental caries, and this topic forms the focus for the Task Force report. Other aspects of oral health considered include dietary associations with periodontal disease, oral cancer and tooth defects. The Oral Health Task Force is a committee of acknowledged experts in the field of oral health. The members were invited by the British Nutrition Foundation to review the current state of knowledge of the relationships between nutrition and diet and all aspects of oral health. The final report is a thorough review of the subject by experts, and will be essential reading for food and nutrition scientists, dentists, and all those involved in dental and nutrition education and policy making.

Root Caries: From Prevalence to Therapy

Indispensable for dentists, dental students and community dental programs With the mass-marketed introduction of fluoride in toothpaste in the 1950s, toothbrushing with paste became indispensable for good oral health. Both the industry and the dental profession had a shared interest in advocating the

widespread correct use of good quality toothpaste. This publication starts with a general introduction on the purpose, history and composition of toothpaste. The following chapters deal with the clinical evidence of its effectiveness in caries prevention, reducing and preventing plaque, gin-givitis, halitosis, and calculus formation, facilitating removal and prevention of extrinsic stain, and preventing dentine hypersensitivity and erosion. Later chapters provide valuable information on the abrasiveness of the pastes, the substantivity of active ingredients in the oral cavity and the possible models to study the effectiveness of the pastes when full-scale clinical trials are not possible. The final chapter focuses on the frequency of toothbrushing and post-brushing rinsing behavior. The book provides indispensable information for dentists, dental students and community dental programs on whether toothpastes can be recommended to patients for specific aims and how to use them to obtain the best effect.

Fluorosis in India

Though it is highly preventable, tooth decay is a common chronic disease both in the United States and worldwide. Evidence shows that decay and other oral diseases may be associated with adverse pregnancy outcomes, respiratory disease, cardiovascular disease, and diabetes. However, individuals and many health care professionals remain unaware of the risk factors and preventive approaches for many oral diseases. They do not fully appreciate how oral health affects overall health and well-being. In *Advancing Oral Health in America*, the Institute of Medicine (IOM) highlights the vital role that the Department of Health and Human Services (HHS) can play in improving oral health and oral health care in the United States. The IOM recommends that HHS design an oral health initiative which has clearly articulated goals, is coordinated effectively, adequately funded and has high-level accountability. In addition, the IOM stresses three key areas needed for successfully maintaining oral health as a priority issue: strong leadership, sustained interest, and the involvement of multiple stakeholders from both the public and private sectors. *Advancing Oral Health in America* provides practical recommendations that the Department of Health and Human Services can use to improve oral health care in America. The report will serve as a vital resource for federal health agencies, health care professionals, policy makers, researchers, and public and private health organizations.

Dental Erosion and Its Clinical Management

Perfect for: Undergraduate Health science, Paramedic science, Nursing, Midwifery, Podiatry and Optometry students. *Pharmacology for Health Professionals 4th Edition* provides a comprehensive introduction to fundamental pharmacology principles and concepts. The fourth edition has been fully updated and revised to reflect the most up-to-date information on the clinical use of drugs, Australian and New Zealand scheduling, drug legislation and ethics. • Anatomy and physiology integrated throughout • Discipline-specific information integrated throughout and additional resources provided via Evolve • Key drug information at your fingertips: Drug Monographs, Drug Interactions Tables, Clinical Interest Boxes and key terms and abbreviations • End-of-chapter review exercises to test your understanding. • Evolve resources for both lecturer and student. • New and updated Drug Monographs describing important aspects of drugs and drug groups • Updated

tables outlining detailed drug interactions occurring with major drug groups • Recent changes in the pharmacological management of major conditions • New Clinical Interest Boxes, including current New Zealand specific and pharmacological treatment of common diseases and conditions • Referencing most up-to-date reviews of drugs and major disease management • Guidelines for clinical choice and use of drugs • Enhanced information on the use of complementary and alternative medicine (CAM) modalities, with a focus on interactions between drugs and CAM therapies • Improved internal design for ease of navigation.

Diagnosis and Management of Oral Lesions and Conditions

Most oral diseases are preventable, yet they remain the most globally common noncommunicable disorders, affecting people throughout their lifetime. Lifestyle, including diet and food choice, is central to the occurrence of oral disease. Nutrition and diet can impact the development and status of the oral cavity as well as the progression of illness. Also, poor oral health can influence the ability to eat and, consequently, to maintain an adequate diet and nutrient balance. This book, consisting of 14 chapters, provides current information on the impact of nutrients (macro- and micro-elements and vitamins) and diet on oral health and vice versa (i.e., the impact of oral health on diet/nutrition). It also reviews possible oral health effects of probiotics as well as relationships between genotype and diet, which are important for determining oral disease risk. This book is a helpful resource for under- and postgraduate students. It will also be useful to dentists and nutritionists/dietitians as they integrate nutrition education into medical practice.

Fluoride

Application and Characterization of Surfactants

Erosive tooth wear is a multifactorial condition of growing concern to the clinician and the subject of extensive research. Since the publication of the first edition of the book with the title Dental Erosion, new knowledge for a better understanding of this important subject has been gathered. The new and more detailed insights resulted in this second, extended publication. It presents a broad spectrum of views, from the molecular level to behavioural aspects, as well as trends in society. In particular, the issues concerning chemical and biological factors as well as dental erosion in children are covered more extensively in this second edition. The first chapters include topics such as the definition, diagnosis, interaction, epidemiology and histopathology of tooth wear. Further, the aetiology of dental erosion, including nutritional and patient-related factors, and dental erosion in children are discussed. This book is a valuable and indispensable guide to better oral health and is highly recommended to faculty members, researchers, dental students, practitioners and other dental professionals.

Compendium

Covering the science behind the disease a comprehensive approach to modern

caries management This systematic approach to modern caries management combines new, evidence-based treatment techniques with the scientific underpinnings of caries formation providing an in-depth review for both clinicians in daily practice and students advancing in the field. Beginning with patho-anatomic changes in the dental hard tissues, *Dental Caries: Science and Clinical Practice* goes on to cover non-invasive, minimally invasive, and more aggressive interventions based on each stage of the disease. From microbiology and histology to visual, tactile and radiographic diagnosis, risk assessment, preventive measures, and tooth preservation and treatment strategies, the book is packed with valuable clinical information for all dental practitioners. Key Features: Succinctly covers the science behind the disease, with recommendations for treatments based on assessment starting at the microscopic level Written by a team of leading worldwide authorities on caries treatment and management and utilizing the International Caries Detection and Assessment System (ICDAS) standard throughout Covers the newest treatment techniques, including adhesion technology, fissure sealing and infiltration, caries removal, tooth-colored restorations, and more Demonstrates step-by-step caries procedures in striking, full-color illustrations of adult and pediatric cases Offers the newest thinking on early prevention and behavioral changes in oral health promotion, including the role of diet and nutrition, biofilm management, fluoride use, population-based approaches, and more Shifting to the new paradigm of heal and seal rather than the more invasive drill and fill, this beautifully illustrated text puts scientific principles into clinical action for the best results. It is an essential resource for a complete, proactive approach to caries detection, assessment, treatment, management, and prevention in contemporary dental practice.

Dentistry, Dental Practice, & the Community

Discovering Cosmetic Science

Dentine Hypersensitivity

Fluoride and the Oral Environment

"This book contains papers arising from a symposium held during a combined meeting of The International Union of Anthropological and Ethnological Sciences (IUAES), The Australian Anthropological Society (AAS) and The Association of Social Anthropologists of Aotearoa New Zealand at the University of Western Australia from July 5-8th, 2011. It follows on from a recently published Special Issue Supplement of *Archives of Oral Biology*, Volume 54, December 2009 that contains papers from an International Workshop on Oral Growth and Development held in Liverpool in 2007 and edited by Professor Alan Brook. Together, these two publications provide a comprehensive overview of state-of-the-art approaches to study dental development and variation, and open up opportunities for future collaborative research initiatives, a key aim of the International Collaborating Network in Oro-facial Genetics and Development that was founded in Liverpool in

2007."--Foreword, p. v.

Oral Health

Extending Medicare Coverage for Preventive and Other Services

Organized for consistency, coherence, and readability, this fully updated text covers all areas of prevention in dental care. PRIMARY PREVENTIVE DENTISTRY, 8/e first describes dental diseases and conditions, helping students clearly understand the processes that can be prevented through the use of preventive modalities or ideas. Next, it presents detailed strategies to prevent these diseases and conditions. Throughout, specific target populations are defined and described based upon scientifically valid preventive strategies aimed at their needs. This edition improves student understanding with more photos, illustrations, diagrams, and tables; highlights "fun facts" about the topic; adds a new chapter on the important influence culture plays in preventive dental care; and is supported by many new web-based review questions and case studies for each chapter.

The Impact of Nutrition and Diet on Oral Health

Clinical Periodontology

Toothpastes

Provides up-to-date information on the rationale for the use of fluoride in dentistry. This volume brings together current concepts relating to the use of fluoride in dentistry. In contributions written by expert authors, data from this large and complex field have been assembled into a clear sequence and presented in a lucid fashion. The first section deals with the sources of fluoride intake and its metabolism, in order to fully understand fluoride toxicity and the importance of monitoring intake. The second section focuses in more detail on modes of fluoride application and the mechanisms by which this ion interacts with the oral environment to cause a remarkable reduction in dental caries. The role of fluoride in the prevention of dental erosion is also elucidated. The complex mechanisms by which fluoride exerts its effects are described with clarity and the entire text is accompanied by particularly useful illustrations. As a clear up-to-date summary of current thinking in the field, this book will be essential reading for research workers and postgraduate students. Established researchers and teachers in both clinical and basic sciences will find it to be a valuable addition to their libraries, and clinicians will be able to better evaluate the current scientific evidence on the advantages as well as the hazards of fluoride in dentistry.

Caries Management - Science and Clinical Practice

Erosive Tooth Wear

Acta Odontologica Scandinavica

Dentine Hypersensitivity: Developing a Person-Centred Approach to Oral Health provides a detailed and integrated account of interdisciplinary research into dentine hypersensitivity. The monograph will be of interest to all those working on person centred oral health related research because it provides not only an account of the findings of a series of studies into dentine hypersensitivity drawing on the research traditions of epidemiology, sociology psychology, and dental public health but an integrated study of the benefits of exploring a single oral condition from this range of disciplines. Provides an introduction to Dentine Hypersensitivity, and uses a multidisciplinary approach to detail interdisciplinary research on the subject Outlines the clinical presentation of Dentine Hypersensitivity and the underlying physiological mechanisms Presents a case study of how social and behavioral science can bright new insights into the experience, treatment, and fundamental knowledge of an important dental condition Written by prominent dentists, psychologists, sociologists, and industry scientists working specifically on the topic of Dentine Hypersensitivity and its subsequent research

Primary Preventive Dentistry

Glickman's Clinical Periodontology

This report, which was developed by an expert committee of the Institute of Medicine, reviews the first three services listed above. It is intended to assist policymakers by providing syntheses of the best evidence available about the effectiveness of these services and by estimating the cost to Medicare of covering them. For each service or condition examined, the committee commissioned a review of the scientific literature that was presented and discussed at a public workshop. As requested by Congress, this report includes explicit estimates only of costs to Medicare, not costs to beneficiaries, their families, or others. It also does not include cost-effectiveness analyses. That is, the extent of the benefits relative to the costs to Medicare-or to society generally-is not evaluated for the services examined. The method for estimating Medicare costs follows the generic estimation practices of the Congressional Budget Office (CBO). The objective was to provide Congress with estimates that were based on familiar procedures and could be compared readily with earlier and later CBO estimates. For each condition or service, the estimates are intended to suggest the order of magnitude of the costs to Medicare of extending coverage, but the estimates could be considerably higher or lower than what Medicare might actually spend were coverage policies changed. The estimates cover the five-year period 2000-2004. In addition to the conclusions about specific coverage issues, the report examines some broader concerns about the processes for making coverage decisions and about the research and organizational infrastructure for these decisions. It also briefly examines the limits of coverage as a means of improving health services and outcomes and the limits of evidence as a means of resolving policy and ethical

questions.

Journal of Periodontology

Studies on Alginates as Vehicles for Topical Fluoride Application

This book focuses on the materials used for dental applications looking at the fundamental issues and the developments that have taken place the past decade. While it provides a broad overview of dental materials, the chemicals that are used for the preparation and fabrication of dental materials are explained as well. Also, the desired properties of these materials are discussed and the relevance of the chemical, physical, and mechanical properties is elucidated. Methods for the characterization and classification, as well as clinical studies are reviewed here. In particular, materials for dental crowns, implants, toothpaste compositions, mouth rinses, as well as materials for toothbrushes and dental floss are discussed. For example, in toothpaste compositions, several classes of materials and chemicals are incorporated, such as abrasives, detergents, humectants, thickeners, sweeteners, coloring agents, bad breath reduction agents, flavoring agents, tartar control agents, and others. These chemicals, together with their structures, are detailed in the text.

New Directions in Dental Anthropology

Erosive tooth wear is a multifactorial condition of growing concern to the clinician and is a subject of extensive research. This book is the first which deals in such detail with dental erosion. It presents the whole spectrum of views on the issue, from the molecular level to behavioral aspects, as well as trends in society. The multifactorial etiological pattern of erosive tooth wear is emphasized and is a strand connecting the different chapters of the book. Definition, diagnosis, prevalence, incidence and chemistry of dental erosion are discussed in the first part of the publication. Further, topics like extrinsic and intrinsic causes of dental erosion are covered and a chapter is devoted to dental erosion in children. Methods of assessment are presented and critically evaluated. The book concludes with themes on dentinal hypersensitivity, risk assessment and preventive measures and restorative options for erosive lesions. This publication is not only highly recommended to faculty members, researchers and dental students, but also to practitioners and other dental professionals who are committed to the prevention and treatment of dental erosion.

Fluoride in Preventive Dentistry

This text is organized into two sections. The first section details the normal microscopic and clinical features of the periodontium, as well as classification, epidemiology, etiology and pathology of periodontal diseases. The second section covers diagnosis and treatment of gingival and periodontal diseases, including four chapters on oral implantology. This edition includes 10 new chapters, including coverage of leukocyte abnormalities; treating aggressive periodontal disease; the

biology of peri-implant tissues, and diagnosing and treating peri-implantitis.

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