

[MOBI] Fluoride And The Oral Environment Monographs In Oral Science Vol 22

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(continued from page 1)

Fluoride and the Oral Environment-Marilia Afonso Rabelo Buzalaf 2011-01-01 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.

Fluoridation Facts-American Dental Association 2018-03-05 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. Oral Health Care-Mandeep Virdi 2012-02-29 Geriatric dentistry, or gerodontics, is the branch of dental care dealing with older adults involving the diagnosis, prevention, and treatment of problems associated with normal aging and age-related diseases as part of an interdisciplinary team with other healthcare professionals. Prosthodontics is the dental specialty pertaining to the diagnosis, treatment planning, rehabilitation, and maintenance of the oral function, comfort, appearance, and health of patients with clinical conditions associated with missing or deficient teeth and/or oral and maxillofacial tissues using biocompatible materials. Periodontology, or Periodontics, is the specialty of oral healthcare that concerns supporting structures of teeth, diseases, and conditions that affect them. The supporting tissues are known as the periodontium, which includes the gingiva (gums), alveolar bone, cementum, and the periodontal ligament. Oral biology deals with the microbiota and their interaction within the oral region. Research in oral health and systemic conditions concerns the effect of various systemic conditions on the oral cavity and conversely helps to diagnose various systemic conditions.

The Teeth and Their Environment-Ralph M. Duckworth 2006-01 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.

Dental Caries- 2018-09-19 This book provides information to the readers starting with the history of oral hygiene manners, and modern oral hygiene practice. It continues with the prevalence and etiology of caries and remedy of caries through natural sources. Etiology of secondary caries in prosthetic restorations and the relationship between orthodontic treatment and caries is addressed. An update of early childhood caries is presented. The use of visual-tactile method, radiography and fluorescence in caries detection is given. The book finishes with methods used for the prevention of white spot lesions and management of caries.

Emerging Trends in Oral Health Sciences and Dentistry-Mandeep Virdi 2015-03-11 Emerging Trends in Oral Health Sciences and Dentistry is the second book on Oral Health Science. The first book is Oral Health Care-Pediatric, Research, Epidemiology and clinical Practices and Oral Health Care-Prosthodontics, Periodontology, Biology, Research and systemic Conditions published in February 2012. The present book is a reflection of the progress in Oral Health Sciences, practices and dentistry indicating the direction in which this stream of knowledge and education is likely to head forward. The book covers areas of General Dentistry, Paediatric and Preventive Dentistry, Geriatric and Prosthodontics, Orthodontics, Periodontology, Conservative Dentistry and Radiology and Oral Medicine.

Advancing Oral Health in America-Institute of Medicine 2012-01-05 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.

Textbook of Preventive and Community Dentistry-S. S. Hiremath 2011-08-15

Fluoride in Drinking Water-A.K. Gupta 2016-04-05 Explore the Health Effects of Fluoride Pollution Fluoride in Drinking Water: Status, Issues, and Solutions establishes the negative impacts of naturally occurring fluoride on human health and considers the depth and scope of fluoride pollution on an international scale. The book discusses current global water quality and fluoride-related issues and draws overall awareness to the problems associated with fluoride in drinking water. Utilizing recent scientific studies to examine the current status of fluoride pollution, it provides a fundamental understanding of fluorosis, and discusses viable scientific solutions. The book places special emphasis on India, Africa, China, and other countries deeply affected by fluoride pollution. A single, comprehensive source covering health issues related to fluoride and its effect on humans, this book: Compiles information from scientific literature on the state of fluoride pollution Characterizes the human impacts of fluorosis Provides a comparative evaluation of technologies used for defluoridation Gives a comprehensive account of human health effects with appropriate scientific descriptions and photographs Includes detailed descriptions on the geochemistry of fluoride entry into groundwater aquifers Presents a case study that deals with the successful removal of fluoride from drinking water A vital resource for environmental and public health officials as well as academic researchers in the area, Fluoride in Drinking Water: Status, Issues, and Solutions covers human health issues associated with fluoride-rich water and describes relevant techniques for defluoridation that can be used to overcome the stress, issues, and challenges of natural fluoride in drinking water.

Fluoride in Drinking water-John Kirtley Fawell 2006 Fluoride is known to occur at elevated concentration in a number of parts of the world, where it can be a significant cause of disease. The primary focus of this book is the prevention of adverse health effects from excessive levels of fluoride in drinking water. The book fills the urgent need, identified for updating the WHO Guidelines for Drinking-water Quality, for information on the occurrence of fluoride, its health effects, ways of reducing excess levels, and methods for analysis of fluoride in water. The draft document, produced by a working group of experts convened to consider protection from fluoride and its control, was issued for extensive review and consultation. The resultant book, which incorporates the comments received, was further peer reviewed by experts in developed and developing countries. It is aimed at a wide range of individuals, including health workers and sanitary engineers who may require a broad introduction to the subject with more detailed guidance in some specific areas. Fluoride in Drinking-waterwill be an invaluable reference source for all those concerned with the management of drinking water containing fluoride and the health effects arising from its consumption, including water sector managers and practitioners, as well as health sector staff at policy and implementation levels. It will also be of interest to researchers, students, development workers, and consultants.

Fluoride in Dentistry-Ole Fejerskov 1996

Fluoride in Drinking Water-National Research Council 2007-01-22 Most people associate fluoride with the practice of intentionally adding fluoride to public drinking water supplies for the prevention of tooth decay. However, fluoride can also enter public water systems from natural sources, including runoff from the weathering of fluoride-containing rocks and soils and leaching from soil into groundwater. Fluoride pollution from various industrial emissions can also contaminate water supplies. In a few areas of the United States fluoride concentrations in water are much higher than normal, mostly from natural sources. Fluoride is one of the drinking water contaminants regulated by the U.S. Environmental Protection Agency (EPA) because it can occur at these toxic levels. In 1986, the EPA established a maximum allowable concentration for fluoride in drinking water of 4 milligrams per liter, a guideline designed to prevent the public from being exposed to harmful levels of fluoride. Fluoride in Drinking Water reviews research on various health effects from exposure to fluoride, including studies conducted in the last 10 years.

Microbial Biofilms-Dharumadurai Dhanasekaran 2016-07-13 In the book Microbial Biofilms: Importance and applications, eminent scientists provide an up-to-date review of the present and future trends on biofilm-related research. This book is divided with four subdivisions as biofilm fundamentals, applications, health aspects, and their control. Moreover, this book also provides a comprehensive account on microbial interactions in biofilms, pycocyanin, and extracellular DNA in facilitating Pseudomonas aeruginosa biofilm formation, atomic force microscopic studies of biofilms, and biofilms in beverage industry. The book comprises a total of 21 chapters from valued contributions from world leading experts in Australia, Bulgaria, Canada, China, Serbia, Germany, Italy, Japan, the United Kingdom, the Kingdom of Saudi Arabia, Republic of Korea, Mexico, Poland, Portugal, and Turkey. This book may be used as a text or reference for everyone interested in biofilms and their applications. It is also highly recommended for environmental microbiologists, soil scientists, medical microbiologists, bioremediation experts, and microbiologists working in biocorrosion, biofueling, biodegradation, water microbiology, quorum sensing, and many other related areas. Scientists in academia, research laboratories, and industry will also find it of interest.

Modern Operative Dentistry-Carlos Rocha Gomes Torres 2019-12-14 This book provides the theoretical knowledge required by students when learning how to diagnose oral diseases, plan treatment, and perform various types of dental restoration. It is also useful for clinicians wishing to update their treatment skills and broaden their understanding operative dentistry.Adopting an evidence-based approach, and in accordance with the philosophy of minimally invasive dentistry, it explains in detail the use of both classic and new restorative materials in various clinical situations. It also discusses the principles of smile analysis, as well the technique for esthetic composite restorations on posterior and anterior teeth, including direct and indirect veneers. In addition to richly illustrated, step-by-step descriptions of procedures, it offers essential information on basic topics, such as dental instruments and equipment, nomenclature and general principles of tooth preparation, isolation of the operating field, matrix and wedge systems, light curing, and pulpal protection. Furthermore it addresses the diagnosis of dental caries and tooth sensitivity of non-carious origin, like dentin hypersensitivity, dental erosion and cracked tooth syndrome, together with their treatment options. Also explaining the fundamental ergonomic principles of clinical practice, the book enables undergraduate students to embark on a successful professional career.

A Life Course Perspective on Health Trajectories and Transitions-Claudine Burton-Jeangros 2015-08-11 This open access book examines health trajectories and health transitions at different stages of the life course, including childhood, adulthood and later life. It provides findings that assess the role of biological and social transitions on health status over time. The essays examine a wide range of health issues, including the consequences of military service on body mass index, childhood obesity and cardiovascular health, socio-economic inequalities in preventive health care use, depression and anxiety during the child rearing period, health trajectories and transitions in people with cystic fibrosis and oral health over the life course. The book addresses theoretical, empirical and methodological issues as well as examines different national contexts, which help to identify factors of vulnerability and potential resources that support resilience available for specific groups and/or populations. Health reflects the ability of individuals to adapt to their social environment. This book analyzes health as a dynamic experience. It examines how different aspects of individual health unfold over time as a result of aging but also in relation to changing socioeconomic conditions. It also offers readers potential insights into public policies that affect the health status of a population.

Biochemistry and Oral Biology-A. S. Cole 2014-06-28 Biochemistry and Oral Biology presents a unique exposition of biochemistry suitable for dental students. It discusses the structural basis of metabolism and the general principles of nutrition. It addresses the soft tissues, hard tissues, and the biology of the mouth. Some of the topics covered in the book are the free radical production; scope of biochemistry; characteristics of atoms; structure and properties of water; molecular building materials; ionization of proteins; affinity chromatography of proteins; structural organization of globular proteins; classification of enzymes; and biochemically important sugar derivatives. The naturally occurring fatty acids are fully covered. The nucleic acid components are discussed in detail. The text describes in depth the energy equivalents of different nutrients. The physiological effects of dietary fiber vitamin D deficiency are completely presented. A chapter is devoted to the alternative methods of fluoride administration and description of vitamins. The book can provide useful information to dental students, and researchers.

Insights into Various Aspects of Oral Health-Jane Manakl 2017-09-20 Chronic inflammation such as seen in periodontitis and its bidirectional influence on the systemic health has been of increased interest for a decade. In this text book, we have explored the biological and genetic pathways by which periodontal diseases may influence these disease processes and vice versa. Occusal rehabilitation using the MEAW technique for the effective treatment of class II deep bite malocclusion and the timely management of cleft lip and palate to benefit the holistic welfare of the patient are presented here. The book addresses the development of bioinspired functionally graded dental restorative materials and also a simulation method that can improve clinical durability and enhance the functional capability of the dentition and indirect restorations. In conclusion, various pathways for the promotion of oral health with evidence-based concepts are considered.

Acta Odontologica Scandinavica- 2004

Caries Management - Science and Clinical Practice-Hendrik Meyer-Lueckel 2013-03-20 Covering the science behind the diseasea 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 formationproviding 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 managementand 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.

Paediatric Dentistry: Principles and Practice-Muthu 2009 This book provides a comprehensive description on Pediatric Dentistry for undergraduate students based on the syllabi recommended by the Dental Council of India and various universities across the country. The contents are well-structured and presented in a lucid manner making it easy for its readers. Each chapter includes numerous commonly asked questions of various university examinations. Apart from these there are Self-assessment Questions including essay type, short notes and MCQ's and Glossary at the end of the book, to help students for their last minute preparation before the exams. About the Author: - M.S. Muthu is currently Professor at the Department of Pediatric Dentistry, Meenakshi Ammal Dental College, Chennai, India. He has graduated from Tamil Nadu Government Dental College and Hospital in 1995 and completed his postgraduation from Nair Hospital and Dental College, Mumbai in 1999. Since then he has restricted his practice to Pediatric Dentistry and runs an exclusive pediatric dental clinic. He has also been actively involved in teaching undergraduate and postgraduate students for the last 9 years. N. Sivakumar is currently Professor and Head at the Department of Pediatric Dentistry, and Principal of Narayana Dental College and Hospital, Nellore, Andhra Pradesh. He has graduated from Government Dental College and Hospital, Hyderabad in 1988 and completed his postgraduation from College of Dental Surgery, KMC, Manipal in 1991. He has been actively involved in teaching undergraduate and postgraduate students for more than 15 years.

Interface Oral Health Science 2009-Takashi Sasano 2010-04-03 Since 2002, the Tohoku University Graduate School of Dentistry has proposed "Interface Oral Health Science" as a major theme for next-generation dental research. That theme is based on the following new concept: healthy oral fu- tion is maintained by biological and biomechanical harmony among three s- tems: (1) oral tissues (host); (2) parasitic microorganisms of the oral cavity (parasites); and (3) biomaterials. The concept implies that oral diseases such as dental caries, periodontal disease, and temporomandibular disorders should be interpreted as "interface disorders" that result from disruption of the intact int- face among these systems. The uniqueness of this concept rests on the fact that it not only encompasses the field of dentistry and dental medicine, but also expands the common ground shared with other fields, including medicine, ag- culture, material science, engineering, and pharmacology. We aim to promote advances in dental research and to activate collaboration with related fields by putting interface oral health science into practice. On this basis, we have already organized the 1st and 2nd International Symposiums for Interface Oral Health Science, which included inspiring special lectures, symposiums, poster pres- tations, and other discussions. The contents of the two symposiums were p- lished as monographs entitled Interface Oral Health Science in 2005 and 2007. The 3rd International Symposium was held in January 2009 as part of this project.

Mosby's Review Questions for the National Board Dental Hygiene Examination - E-Book-Mosby 2013-12-13 Offering the most realistic NBDHE review and practice available, Mosby's Review Questions for the National Board Dental Hygiene Examination includes both a print book and companion website to prepare you for exam success. In the book, you'll review with more than 1,250 Component A practice questions — with each answer including a rationale for both correct and incorrect answer options. Online, you can review the same questions plus an additional 420 case-based items related to Component B in 1) practice mode or 2) timed, exam-simulation mode with randomized tests that match the number and distribution of questions on the NBDHE. From a team of dental hygiene experts including lead editor Barbara Bennett, this Q&A resource is an excellent supplement to any NBDHE content review book! More than 1,680 multiple-choice questions provide comprehensive practice spanning the entire NBDHE, with 1,250+ items relating to Component A — more than six times the number of questions on the actual exam! — and 420 case-based questions related to Component B. Rationales accompany each question, fully explaining why each answer choice is either correct or incorrect and thus serving as secondary content review. Distribution of questions matches each category on the NBDHE test specifications, ensuring that you have adequate practice for each content area. An Evolve companion website includes all 1,250+ questions from the book plus additional case studies with color images and accompanying questions, available either in practice mode with instant feedback or in exam-simulation format with results and feedback provided at the end of the exam. A test creator and timer on Evolve generates NBDHE-style tests that mimic the number and distribution of questions on the NBDHE and also provides realistic practice with time management during the exam. 16 detailed case studies on Evolve, each of which includes a patient medical/dental history, completed periodontal chart, oral radiographs, clinical photographs, and 20-35 multiple-choice questions for patients in the five main categories covered on the NBDHE (adult periodontitis, pediatric, geriatric, special needs, and medically compromised). References to text sources make it easy to review or find more information on specific topics. Oral Microbiology E-Book-Philip D. Marsh 2009-04-30 Now expanded and in full colour throughout, ORAL MICROBIOLOGY retains its unique ecological approach to the subject which helps the reader determine whether an organism will have a pathogenic or commensal relationship at a given site. In the new edition, greater emphasis is placed on the role of current molecular biology techniques in the understanding of oral microbes. The book also provides insight into current therapeutic and prophylactic antibiotic use, infection control, and the relationships between oral and general health. New authorship also offers additional expertise on viral and fungal pathogens and the role of oral microbes in acute and chronic infections. Successfully describes the complex relationship between the resident oral microflora and the host in health and disease Retains a unique ecological approach to the subject which benefits the reader by providing a clear set of principles to explain the underlying issues that determine whether the microflora will have a beneficial or an adverse relationship with the host at a particular site Published for the first time in full colour, Oral Microbiology has been expanded and completely rewritten with almost 100 brand new illustrations Includes discussion of the latest molecular biology techniques which have revolutionized our knowledge of oral microbes Highlights the biological and clinical significance of the existence of the oral microflora in the form of a biofilm on dental and mucosal surfaces Includes contemporary views on therapeutic and prophylactic antibiotic use, infection control, and the relationships between oral and general health New authorship offers further expertise on viral and fungal pathogens and the role of oral microbes in acute and chronic infections

Milk Fluorides for the Prevention of Dental Caries-Joán Bánóczy 2009 The aim of this publication is to offer help to public health planners and administrators at community or national levels in establishing a sound basis, supported by scientific evidence, for the planning, implementation and extension of milk fluoridation projects for the prevention of dental caries. Finally, the edition provides basic guidelines for evaluation of milk fluoridation schemes.

Advances in Hydrofluoric Acid Research and Application: 2013 Edition- 2013-06-21 Advances in Hydrofluoric Acid Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about ZZZAdditional Research in a concise format. The editors have built Advances in Hydrofluoric Acid Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Hydrofluoric Acid Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Advanced Physicochemical Treatment Processes-Lawrence K. Wang 2007-11-10 The past thirty years have witnessed a growing worldwide desire that po- tive actions be taken to restore and protect the environment from the degr- ing effects of all forms of pollution—air, water, soil, and noise. Because pollution is a direct or indirect consequence of waste, the seemingly idealistic demand for “zero discharge” can be construed as an unrealistic demand for zero waste. However, as long as waste continues to exist, we can only attempt to abate the subsequent pollution by converting it to a less noxious form. Three major questions usually arise when a particular type of pollution has been id- tified: (1) How serious is the pollution? (2) Is the technology to abate it ava- able? and (3) Do the costs of abatement justify the degree of abatement achieved? This book is one of the volumes of the Handbook of Environmental Engineering series. The principal intention of this series is to help readers f- mulate answers to the last two questions above. The traditional approach of applying tried-and-true solutions to specific pollution problems has been a major contributing factor to the success of en- ronmental engineering, and has accounted in large measure for the establi- ment of a “methodology of pollution control. ” However, the realization of the ever-increasing complexity and interrelated nature of current environmental problems renders it imperative that intelligent planning of pollution abatement systems be undertaken.

Pediatric Dentistry - E-Book-Paul S. Casamassimo 2013-11-28 Now in full color, this text uses a unique age-specific organization to discuss all aspects of pediatric dentistry from infancy through adolescence. 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. Other chapters explore the examination, treatment planning, radiographic concerns, prevention, trauma, restorative dentistry, pulp therapy, orthodontics, and behavior management of each age range. Unique organization begins with an introduction to the basic information and topics pertinent to children of all ages, then divides up the rest of the text by age group to cover the specific changes the child experiences physically, cognitively, emotionally, and socially. In most cases, particular dental issues are discussed only once, at the point in a child's development at which they are most appropriate. Section on children from conception to age three covers conditions such as cleft palate, disturbances in calcification, unusual numbers of teeth, oral habits, caries, and the development of malocclusions that start during these years. Chapter on aesthetic restorative dentistry for the adolescent looks at material selection, tooth color and form, diastemas, discolored teeth, bleaching and more. Chapter on sport dentistry and mouth protection covers how to evaluate child/adolescent athletes, the different types of mouth protection available, and professional activities in sports dentistry. Chapter on the diagnosis of oral lesions and developmental anomalies uses tables and extensive illustrations to depict developmental anomalies, white soft tissue lesions and enlargements, dark soft tissue lesions, ulcerative lesions, radiolucent lesions of bone, mixed radiolucent and radiopaque lesions of bone. NEW! Full-color design creates an immediate visual impact and better illustrates concepts and dental conditions.

The Use of Topical Fluorides and Fissure-Sealants-Conrad Costa 2010-10-12 A Study Of The Use Of Topical Fluorides And Fissure Sealants As Caries/Preventive Measures On Permanent First Or Second Molars In Children And Adolescents, As Employed By General Dental Practitioners In Norfolk, UK

The Metabolism and Toxicity of Fluoride-Gary M. Whitford 1996 Since the first edition of this highly-acclaimed book appeared in 1989, a considerable amount of new information has been published on the diverse effects that fluoride can produce in biological systems. The remarkable decline in dental caries that is now occurring throughout the world can be largely attributed to the use of ingested and topical forms of fluoride. Indeed, fluoride is now widely regarded as the cornerstone of modern preventive dentistry. In addition to its prophylactic qualities, fluoride is currently being investigated for its benefits in the treatment of osteoporosis, ischemia, and other major diseases; in larger doses, however, fluoride is known to cause fluorosis, and in excessive amounts can even lead to death. This newly revised edition includes data from the most recent studies in these areas and provides an up-to-date, critical discussion of fluoride metabolism and toxicity as well as environmental and physiological variables that can affect these processes. It will be of particular interest to dental students and residents, dental educators and researchers, toxicologists, pharmacologists and physiologists.

Trace Elements-Hosam El-Din M. Saleh 2018-09-05 Over the last few years, we have witnessed increasing efforts dedicated to the scientific investigation and characteristics of trace elements. Especially in the field of human and animal nutrition, trace elements display a considerably attractive issue for research because they play an essential role in the nutrition of both animals and humans. Aquatic environments contaminated with trace elements are an emerging research area due to the toxicity, abundance, and environmental persistence of trace elements. Accumulation of heavy metals as a class of trace elements in various environments, and the subsequent transition of these elements into the food and feed chain, severely affects human health. The determination of type and concentration of trace elements is regarded as the first and most important step to follow the mechanisms controlling the dispersal and accumulation of trace elements. Element speciation in different media (water, soil, food, plants, coal, biological matter, food, and fodder) is pivotal to assess an element's toxicity, bioavailability, environmental mobility, and biogeochemical performance. Recently, new analytical techniques have been developed, which greatly simplified the quantitation of many trace elements and considerably extended their detection range. In this context, the development of reproducible and accurate techniques for trace element analysis in different media using spectroscopic instrumentation is continuously updated.

Adhesives-Anna Rudawska 2016-11-23 This book presents some information regarding adhesives which have applications in industry, medicine and dentistry. The book is divided into two parts: "Adhesives Applications in Medicine and Dentistry" and "Properties of Adhesive." The aim of such a presentation is to present the usage in very different aspects of application of the adhesives and present specific properties of adhesives. Adhesives' advantageous properties and relatively uncomplicated processing methods contribute to their increasing application and their growing popularity in the industry, medicine and other branches. Some adhesives represent properties superior to those of most adhesive materials, due to their excellent adhesion and chemical resistance. A wide variety of adhesives' considerable flexibility in modification of properties of adhesives allows adjusting the composition to particular applications.

Oxford Handbook of Integrated Dental Biosciences-Hugh Devlin 2018-03-09 Practical, comprehensive, and concise, the Oxford Handbook of Integrated Dental Biosciences has been designed to reflect problem-based teaching scenarios, with extensive diagrams and illustrations to aid clinical understanding of the main text. Summary and key point boxes have been incorporated throughout to allow quick reference and easy assimilation of the content. Formally known as the Oxford Handbook of Applied Dental Sciences, this second edition has been completely rewritten by a brand new author team, to closely integrate the non-clinical and clinical aspects of dentistry. Featuring separate sections detailing the relevant clinical application and putting the science into context, this handbook is ideal for dental students, dental trainees studying for higher qualifications, and practitioners as a useful aide memoire.

In Vivo Remineralization of Presoftened Bovine Enamel with an Intra-oral Fluoride-releasing Device-Tzong-Ping Anthony Tsai 1986

Pediatric Oral Health-Ann L. Griffen 2000

Evidence-Based Oral Health Promotion Resource-John Rogers 2011 It is generally accepted that prevention is better than cure. So it is for dental or oral diseases. Anyone who has had a toothache, seen a child with dental pain, or experienced not being able to eat or sleep properly or to smile, understands the benefits of preventing oral disease. The challenge is to identify and introduce cost effective and sustainable approaches... This comprehensive resource on the evidence-base for oral health promotion & ... is designed as a practical summary for policy development and program implementation... Oral diseases and their causes are outlined along with the common risk factors between oral and other diseases. The most effective strategies for prevention are presented based on a systematic review of the literature. These strategies are outlined according to seven priority groups and settings and also by Victoria's Integrated Health Promotion categories.

The Metabolism and Toxicity of Fluoride-Gary M. Whitford 1996 Since the first edition of this highly-acclaimed book appeared in 1989, a considerable amount of new information has been published on the diverse effects that fluoride can produce in biological systems. The remarkable decline in dental caries that is now occurring throughout the world can be largely attributed to the use of ingested and topical forms of fluoride. Indeed, fluoride is now widely regarded as the cornerstone of modern preventive dentistry. In addition to its prophylactic qualities, fluoride is currently being investigated for its benefits in the treatment of osteoporosis, ischemia, and other major diseases; in larger doses, however, fluoride is known to cause fluorosis, and in excessive amounts can even lead to death. This newly revised edition includes data from the most recent studies in these areas and provides an up-to-date, critical discussion of fluoride metabolism and toxicity as well as environmental and physiological variables that can affect these processes. It will be of particular interest to dental students and residents, dental educators and researchers, toxicologists, pharmacologists and physiologists.

Caries Risk-Bo Krasse 1985

Salt Fluoridation- 1986

Dental Hygiene - E-Book-Michele Leonardi Darby 2009-03-24 Comprehensive and up to date, Dental Hygiene, 3rd Edition offers complete coverage of today's dental hygiene skills and theories -- all based on the Human Needs Model for better hygienist/patient communication. With a strong focus on clinical application, each section closely follows the critical thinking and clinical assessment approach that a hygienist must use in the classroom, clinic, and practice. Clinical competencies at the beginning of each chapter provide a clear, quick overview of exactly what you need to know, and procedure boxes with detailed steps and rationales ensure that you understand the reasoning behind each step in the competencies. In addition, new chapters on caries risk assessment and the oral-systemic health connection keep you up to date with today's major areas of research. Each section takes you from conceptual foundations of dental hygiene through patient assessment, treatment, and evaluation. Scenario boxes challenge you to integrate complex information as you assess, diagnose, plan care, and evaluate the outcome of care. Client Education Issues and Legal, Ethical and Safety Issues boxes inform you of the latest information in these important areas. Critical Thinking exercises provide opportunities for independent thought and problem solving. Tables and boxes build upon and simplify information from the text, making study and review quick and easy. Evolve website contains free online resources, including weblinks, self-assessment quizzes, and professional development worksheets for student review. A reorganized section for Individuals with Special Needs includes chapters on Cleft Palate, Physical Abuse, Blood Diseases, and Mental Illness, all reflecting evidence-based research now available in these areas. New chapters on caries risk assessment and the oral-systemic health connection -- hot topics in today's dental sciences. New anesthesia guidelines keep you up to date with what's new in pain and anxiety control. Essential resources and websites are now included at the end of each chapter for easy reference. New illustrations provide a fresh, reader-friendly design. Self-assessment quizzes are available online, all case-based to follow the NBDH format. Free online access to the Legal and Ethical Decision Making chapter, including an "asset center" to assist you with clinical skills.

Treatment Planning in Dentistry - E-Book-Stephen J. Stefanac 2006-08-29 This book provides essential knowledge for creating treatment plans for adult dental patients. Treatment planning strategies are presented to help with balancing the ideal with the practical, with emphasis placed on the central role of the patient — whose needs should drive the treatment planning process. The focus is on planning of treatment, not on the comprehensive details of every treatment modality in dentistry. CD-ROM bound into book presents five cases of varying difficulty with interactive exercises that allow users to plan treatment. What's the Evidence? boxes link clinical decision-making and treatment planning strategies to current research. In Clinical Practice boxes highlight specific clinical situations faced by the general dentist. Review Questions and Suggested Projects, located at the end of each chapter, summarize and reinforce important concepts presented in the book. Key Terms and Glossary highlights the terms that are most important to the reader. Suggested Readings lists included at the end of most chapters provide supplemental resources. Chapter on Treatment Planning for Smokers and Patients with Oral Cancer addresses the dentist's role in managing patients with oral cancer, recognizing oral cancer and differential diagnosis of oral lesions, planning treatment for patients undergoing cancer therapy, and smoking cessation strategies. Chapter on Treatment Planning for the Special Care/Special Needs Patient examines the role of the general dentist in the management of patients with a variety of conditions including physical handicaps, mental handicaps, head trauma, hemophilia, and patients' needs before, during, or after major surgery. Chapter on Treatment Planning for the Alcohol and Substance Abuser discusses the challenges of treating this patient population, as well as how to recognize the problem, delivery of care, scope of treatment, and behavioral/compliance issues. Expanded content on Ethical and Legal Issues in Treatment Planning reflects new accreditation guidelines. Dental Team Focus boxes highlight the relevance of chapter content to the dental team. Ethics Topics boxes emphasize the ethical topics found within each chapter. International Tooth Numbering is listed alongside the U.S. tooth numbers in examples and illustrations.

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