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A unique, multidisciplinary manual for the treatment of pediatric dental emergencies for general practitioners and non-pediatric specialists Management of Dental Emergencies in Children and Adolescents presents the diagnostic skills, treatment options, and management strategies necessary to provide effective and appropriate dental care for children and adolescents. This authoritative manual helps dental practitioners manage potentially stressful situations with children and adolescents while improving their competence in a wide range of urgent pediatric situations. An emphasis on managing the therapeutic demands of both younger patients and their parents enables readers to have greater confidence in handling demanding emergency situations in daily practice. An expert team of contributors explain how to manage tooth substance loss, endodontic problems in deciduous teeth, the long-term consequences of early tooth loss, the dental issues related to oral health, and more. Guiding practitioners through the unique challenges of pediatric dental emergencies, this book: Explains the differences in treating and managing dental emergencies in children compared to adults Covers all types of pediatric dental emergencies including open pulp in permanent and deciduous teeth, missing teeth, and non-infective dental conditions Offers clinical vignettes and photographs to highlight clinical relevance Includes chapters by experts in multiple disciplines such as endodontics, restorative dentistry, pediatric dentistry, prosthodontics, and orthodontics The first textbook to focus exclusively on young patients in need of acute dental care, Management of Dental Emergencies in Children and Adolescents is a much-needed resource for general and specialist dentists as well as trainee and specialist pediatric dentists.

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 be-

hind 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 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.

Dental caries is the central theme of Dentistry. The author has compiled the best in the literature to provide to the reader a wide knowledge about this matter. In Cariology, the most important concepts, students or dental professionals will have the opportunity to understand in a didactic and up to date way, the mechanism of universal and prevalent disease, and all factors involved in its prevention and establishment. Essential reading for the student and dental professional who wants to improve their knowledge.

Get updated on the latest on caries management! Articles include defining dental caries, caries risk assessment and intervention, treatment protocols, detection and diagnosis of caries lesions, non-invasive demineralized tissue repair, clinical threshold for carious tissue removal, assessment and management of dental erosion, and much more!

This book describes the challenges that deep carious lesions pose for dental practitioners, including the risk of endodontic complications and the difficulty of restorative treatment, and identifies options for overcoming these challenges on the basis of the best available evidence. The opening chapter sets the scene by discussing pathophysiology, histopathology, clinical symptomatology, and treatment thresholds. The various treatment options are then systematically presented and reviewed, covering non-selective, stepwise, and selective carious tissue removal and restoration, sealing of lesions using resin sealants or crowns, and non-restorative management approaches. In each case the

current evidence with respect to the treatment is carefully evaluated. Advantages and disadvantages are explained and recommendations made on when to use the treatment in question. Illustrative clinical cases and treatment pathways for clinicians are included. This book will be of value for all practitioners who treat dental caries and carious lesions, whether in the permanent or the primary dentition. It will also be of interest to under- and postgraduate students in cariology and restorative, operative, preventive, and pediatric dentistry.

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-carious cervical lesions. The authors are renowned, clinically active international experts in different aspects of dental erosion and its management.

This easy-to-read, well-illustrated book helps the practitioner understand, prevent, and manage caries in children by presenting the latest concepts and clinical guidance for handling simultaneously the child, the caries, and the parent.

Dental caries (tooth decay) is one of the most highly prevalent diseases around the world affecting a significant proportion of the population. Dental caries may take place on any tooth surface in the oral cavity where dental plaque is allowed to develop over a period of time. Understanding its causes and progression allows the dental team to help the patient control and manage it so that patients can maintain healthy teeth for life. The fourth edition of *Essentials of Dental Caries* provides readers with an up-to-date, clinically relevant guide to dental caries. Written in an accessible style, the authors explain the biological and socioeconomic background of lesion development and progress. Current methods of clinical diagnosis and evidence based management are outlined in clearly laid out and highly illustrated chapters. This book is essential reading for students and practitioners of dentistry, dental therapy, dental hygiene, and oral health educators.

After summarizing the dramatic changes that have taken place in caries prevalence during the 50-year lifespan of ORCA, this publication focuses on current concepts of the control of dental caries. The papers are all written by leading experts in their respective fields and provide an invaluable overview of current thinking in caries research. The main section comprises 19 papers under the headings: 'Defining and diagnosing caries'; 'How to prevent caries?' and 'How to manage caries?', which comprehensively review the basic and clinical sciences of caries control. Finally, looking ahead, the problems of how to translate research into clinical practice are discussed. The issue concludes with a concise summary of the discussions stimulated by the presentations. This publication is unique in bringing together up-to-date, authoritative reviews of this multifactorial disease and is highly recommended to basic and clinical scientists interested in any aspect of caries research, to dental public care planners, and academic dentists involved in teaching aspects of caries aetiology,

prevention and management. For more information about ORCA, see www.orca-caries-research.org. Teeth are important to children, particularly primary teeth. What can be done in the dental surgery to prevent disease? Moreover, the anatomy of primary teeth results in pulpal change faster. Fortunately, restorative techniques are simpler. This book unravels the modern theories of cariology and provides simple step-by-step guides to restoration.

This book thoroughly explains the biological background of dental caries and the formation of carious lesions, providing the reader with a sound basis for understanding the role and effectiveness of different therapeutic and preventive measures. Detailed information is presented on pathogenesis, ultrastructure, and diagnosis. All aspects of the carious process are covered, including development of the initial carious lesion limited to the enamel, evolution of the enamel carious lesion toward a dentin carious lesion, superficial and deep dentin lesions, and cervical erosions. Strategies for prevention and dental tissue regeneration are elaborated and both conventional therapies and minimally invasive and non-invasive treatment approaches are discussed. A separate section is devoted to dental fluorosis and the use of fluoridation and remineralisation agents. This scientifically focused and clinically relevant book, written by acknowledged experts in the field, will appeal to dentists seeking to extend their knowledge as well as to researchers, dental students, and other dental professionals.

Dental caries, despite significant reductions in some populations, continues to be a major public health problem, and is the most prevalent disease affecting humans. However, even fundamental aspects of the pathogenesis of caries remain uncertain, calling for continuing scientific enquiry and the application of sophisticated techniques, from epidemiology to molecular biology. Although recent changes in the pattern of dental caries are identifiable, available data does not reveal whether, overall, caries is declining. The conference 'Cariology in the Nineties', held at the University of Rochester in 1991, by focusing on the etiology, pathogenesis and prevention of dental caries, emphasised the need to co-ordinate research in monitoring populations worldwide, and to change the focus of research to reflect the changing epidemiology and patterns of dental disease. Contents: Keynote address; Epidemiology; Saliva; Teeth; Clinical studies; Microbiology/Plaque; Diet/Nutrition/Prevention. W.H. BOWEN is Professor and Chair, Department of Dental Research, University of Rochester. LAWRENCE A. TABAK is Professor of Dental Research and of Biochemistry, University of Rochester.

Covering both popular and advanced cosmetic procedures, *Contemporary Esthetic Dentistry* enhances your skills in the dental treatments leading to esthetically pleasing restorations. With over 1,600 full-color illustrations, this definitive reference discusses the importance of cariology and caries management, then covers essential topics such as ultraconservative dentistry, color and shade, adhesive techniques, anterior and posterior direct composites, and finishing and polishing. Popular esthetic treatment options are described in detail, including bleaching or tooth whitening, direct and porcelain veneers, and esthetic inlays and onlays. Coverage of advanced cosmetic procedures includes implants, perioesthetics, ortho-esthetics, and pediatric esthetics, providing a solid understanding of treatments that are less common but can impact patient outcomes. Developed by Dr. George A. Freedman, a renowned leader in the field, *Contemporary Esthetic Dentistry* also allows you to earn Continuing Education credits as you improve your knowledge and skills. Continuing Edu-

cation credits are available, allowing you to earn one to two CE credits per chapter. Detailed coverage of popular esthetic procedures includes bleaching, direct and porcelain veneers, inlays and onlays, posts and cores, porcelain-fused-to-metal restorations, zirconium crowns and bridges, and complete dentures. Coverage of advanced procedures includes implants, perioesthetics, ortho-esthetics, pediatric esthetics, and sleep-disordered breathing, providing a solid understanding of less-frequently encountered topics that impact the esthetic treatment plan and outcomes. Coverage of key esthetic dentistry topics and fundamental skills includes cariology and caries management, understanding dental materials, photography, understanding and manipulating of color and shade, adhesive techniques, anterior and posterior direct composites, and finishing and polishing. Over 1,600 full-color photos and illustrations help to clarify important concepts and techniques, and show treat-

ments from beginning of the case to the final esthetic results. Well-known and respected lead author George A. Freedman is a recognized author, educator, and speaker, and past president of the American Academy of Cosmetic Dentistry and co-founder of the Canadian Academy for Esthetic Dentistry. Expert contributors are leading educators and practicing clinicians, including names such as Irvin Smigel (the father of esthetic dentistry), Chuck N. Maragos (the father of contemporary diagnostics), Wayne Halstrom (a pioneer in the area of dental sleep medicine), David Clark (one of the pioneers of the microscope in restorative dentistry and founder the Academy of Microscope Enhanced Dentistry), Edward Lynch (elected the most influential person in UK Dentistry in 2010 by his peers), Joseph Massad (creator, producer, director, and moderator of two of the most popular teaching videos on the subject of removable prosthodontics), Simon McDonald (founder and CEO of Triodent Ltd, an international dental manufacturing and innovations company), and many more!