

## Cariology

The book "Dental Anatomy" is one of the most important and basic areas of dentistry. This book is a collection of nine chapters divided into five sections as follows: Chapter 1: "Permanent Maxillary and Mandibular Incisors", Chapter 2: "The Permanent Maxillary and Mandibular Premolar Teeth", Chapter 3: "Dental Anatomical Features and Caries: A Relationship to be Investigated", Chapter 4: "Anatomy Applied to Block Anaesthesia", Chapter 5: "Treatment Considerations for Missing Teeth", Chapter 6: "Anatomical and Functional Restoration of the Compromised Occlusion: From Theory to Materials", Chapter 7: "Evaluation of the Anatomy of the Lower First Premolar", Chapter 8: "A Comparative Study of the Validity and Reproducibility of Mesiodistal Tooth Size and Dental Arch with the iTero Intraoral Scanner and the Traditional Method", Chapter 9: "Identification of Lower Central Incisors". The book is aimed toward dentists and can also be well used in education and research.

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.

The International Caries Detection and Assessment System (ICDAS) offers clinical criteria and codes, together with a framework to support and enable personalized comprehensive caries management for improved long-term health outcome. Based on the ICDAS, this publication provides an up-to-date synthesis of the fields of detection, assessment, diagnosis and monitoring of caries. The available evidence is reviewed, and a summary is given of the current international views on best practice of how the information collected can be collated and synthesized to inform the planning, delivery and clinical evaluation of patient-centred, comprehensive caries management. The book includes a unique glossary of key terms developed with a number of international groups and establishes new links between cariology in clinical practice, caries research, dental education and epidemiology, and dental public health. The book presents valuable information for practitioners and other dental health professionals with an interest in dental caries and its modern, evidence-based, clinical management as well as for all involved in the domains of dental public health, caries research or education.

This is a revised and updated A to Z guide to pediatric dentistry that defines the different management requirements of children at different stages of development. Material is presented within the context of four developmental stages: conception to age three, primary dentition years -- age three to six, transitional years from six to twelve, and adolescence. This 3rd Edition features three new sections covering dentistry for the child with special circumstances, understanding risk analysis as it effects diagnosis and treatment planning, and anticipatory guidance. Divides coverage into four sections that correspond to developmental age groups: birth to age 3, ages 3 to 6, ages 6 to 12 and adolescence. Describes prevention, diagnosis and treatment for each group, as well as the physical, cognitive, emotional and social changes that affect dental care. Presents a brand-new chapter on Dental Public Health Issues in Pediatric Dentistry (Ch. 11) New Chapter on the Acid Etch Technique and Caries Prevention (Ch. 32) Offers many new and revised commentary boxes in which leading specialists, many new to this edition, discuss specific procedures and cases.

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 Education 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 treatments 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!

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!

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.

This issue is the third issue Dr. John Calamia and colleagues have edited on cosmetic dentistry. This issue, titled "Modern Concepts in Aesthetic Dentistry & Multi-disciplined Reconstructive Grand Rounds," features 20 articles on Smile design, Proportional smile design, Use of Kois analyzer in the restoration of anterior dentition, Cements and adhesives for all-ceramic restorations, Replacement of old PFM crowns with all ceramic restorations, Cosmetic makeover insuring patient input, Orthodontic intervention: diastema closure, Fluorosis, chemical abrasion, and porcelain veneers, Aesthetic smile enhancement, Treatment of intrinsic stains, Moderate mandibular anterior crowding, Functional and aesthetic rehabilitation, Restoration of the anterior segment, Full mouth reconstruction of worn dentition, Interdisciplinary aesthetic treatment, Gummy smile reduction, Diastema closure, and much more!

This book is a printed edition of the Special Issue "Development and Application of Optical Coherence Tomography (OCT)" that was published in Applied Sciences

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.

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

The new edition of this popular, clinically relevant book provides the biological background required by dentistry students in order to take the science of cariology to the chairside in the management of patients.

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](http://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.

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. This Elsevier title is a Pageburst product which provides you with the printed volume PLUS an e-book. Pageburst (formerly Evolve eBooks) allows you to quickly search the entire book, make notes, add highlights, and study more efficiently. Buying other Pageburst titles makes your learning experience even better: all of the eBooks will work together on your electronic 'bookshelf' so that you can search across your entire electronic library. Advanced Operative Dentistry: A Practical Approach is a brand new volume that addresses the use of fixed prosthodontics in a single handy reference source. Prepared by editors and contributors of international renown, this volume places unique emphasis on the biological basis of effective treatment planning by describing the diagnosis, aetiology, risk assessment and preventive management of diseases and disorders and how these factors are integral to predictable long-term patient outcomes. Advanced Operative Dentistry: A Practical Approach also gives clear advice on the selection and use of modern dental materials and describes how teeth are prepared – and to what extent – for indirect restorations such as crowns, bridges, veneers, inlays and onlays. The book also explores the use of complex indirect fixed prosthodontics which brings with it specific issues of restoration design, retention and occlusal management. Recognising that great deal of emphasis is placed on aesthetic dentistry by patient and dentist alike, this text also discusses factors which can impact upon aesthetics and how the aesthetic demands of patients can be met in a realistic and ethical manner. Clearly written and fully illustrated throughout, this practical step-by-step guide will be ideal for undergraduate dental students, vocational trainees and practitioners undertaking post-graduate exams. Prepared by editors and contributors of international renown Contains an abundance of full colour, clinical illustrations to show the results that can be achieved in real life Describes how to achieve the best appearance in order to meet increasing patient expectations Discusses the use of fixed prosthodontics in one volume and how fixed and removable prosthodontics can be integrated Gives unique emphasis on the preventative, biological approach to the use of fixed prosthodontics in order to ensure positive long-term treatment outcomes Clearly illustrates why aspects of tooth preparation are necessary and how the construction of restorations influences their fit Provides an integrated, multidisciplinary step-by-step guide to the provision of indirect fixed restorations Provides guidance on effective communication with laboratory staff to ensure high-quality tooth preparation Describes the correct handling of materials and restorations when being fitted Presents the latest findings regarding the use of contemporary materials and techniques – such as the use of Expasyl, Protamp temporary crowns, CAD and CAM crowns Comprehensive coverage of the subject area makes cross-referencing to other books unnecessary

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