

# Cariology

*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.*

*Cariology for the Nineties* University Rochester Press

*Animal Models in Cariology*

*Impact of Laser Irradiation on the Increase of Dental Enamel Resistance to Caries, Erosion, and Abrasion*

*Review*

*International Congress in Honour of Professor Dr. Hans-R. Mühlemann, Zürich, September 2-4, 1983*

*Comparative Cariology*

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 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!

Laser Applications in Cariology

From Pathogenesis to Prevention and Therapy

Correlating Cariology with Preclinical Operative Dentistry

Paediatric Cariology

Modern Concepts in Aesthetic Dentistry and Multi-disciplined

Reconstructive Grand Rounds

***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!*

*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.*

*Textbook of Clinical Cariology*

*A Biological Viewpoint*

*Cariology for the Nineties*

*Animal Models in Cariology (A Special Supplement to Microbiology Abstracts-bacteriology)*

*1976-1986*

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

*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.*

*Textbook of Clinical Cariology Ed. by Anders Thylstrup; Ole Fejerskov School of Dentistry ...*

*symposium on computer applications to cariology introduction and automated electrocardiography and arrhythmia monitoring*

*The Most Important Concepts*

*State of the Art and Future Perspectives*

*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!*

*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)*

*Dental Anatomy*

*Current Concepts in Cariology*

*Cariology Today*

*Cariology 1983*

*Substantial Findings from Two Study Projects Popular in Cariology and Pediatric Dentistry*

**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.

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.

**Understanding Dental Caries**

**A Special Supplement to Microbiology Abstracts -**

**Bacteriology : Proceedings of a Symposium & Workshop on Animal Models in Cariology, April 21-23, 1980, Sheraton Sturbridge Inn, Sturbridge, Massachusetts**

**Proceedings**

**Social Constructionist Account of Dental Caries**

**Development and Application of Optical Coherence Tomography (OCT)**

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.

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.

Textbook of Cariology

The Formation of Poisons by Micro-organisms

Proceedings of a Symposium and Workshop on Animal Models in Cariology, April 21-23, 1980, Sheraton Sturbridge Inn, Sturbridge, Massachusetts

The Rotten Truth of Cariology

Department of Cariology and Endodontology