

# Root Canal Morphology And Its Relationship To Endodontic

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*Cohen's Pathways of the Pulp - E-Book* - Louis H. Berman 2020-09-08  
Stay up on the latest research and techniques in endodontics with Cohen's Pathways of the Pulp, 12th Edition. Written by a team of internationally renowned experts and trusted for more than 40 years, this definitive guide covers the science, theory, and practice of endodontics. Full color illustrations and detailed radiographs guide readers through each step of endodontic care — from diagnosis and treatment planning to proven techniques for managing pulpal and periapical diseases. This new twelfth edition also boasts the very latest evidence-based research and techniques, reorganized and condensed chapters, plus other features designed to help you locate important information quickly and easily. Complete with access to Expert Consult, it's everything you need to stay ahead in the field of endodontics. Extensive illustration collection includes over 2,000 full-color photos, line art, and radiographs to clearly demonstrate core concepts and reinforce the essential principles and techniques of endodontics. Video clips and case studies demonstrate key procedures such as palpation of the masseter muscle, introsseous anesthesia with the X-tip system, dentin hypersensitivity, and more. Diverse and respected contributor pool includes experts from many national- and international-based dental education programs. NEW! Updated content and new images incorporate the most recent developments in research and clinical endodontic techniques. NEW! Additional topics cover pulp biology, pathobiology, diagnosis, treatment planning, pain control, isolation, access, cleaning and shaping, obturation, restoration, assessment of outcomes, emergencies and surgery. Each online topic comes with assigned reading lists, a PowerPoint lecture, written lesson objectives, and example exam questions. NEW! Compliance with the Commission on Dental Accreditation Curriculum ensures that the needs of all dental programs are met. NEW! Reorganized sections now divide chapters by those covering clinical endodontics, those covering the biological basis of endodontics, and chapters which detail endodontics in private practice to make content easier for both clinicians and students to navigate. NEW! Condensed chapters remove unnecessary duplication of content across the text and make the physical text lighter and easier to use.

**Cohen's Pathways of the Pulp Expert Consult** - Louis H. Berman, DDS, FACD 2015-10-02

Find the latest evidence-based research and clinical treatments! Cohen's Pathways of the Pulp, 11th Edition covers the science, theory, and practice of endodontics with chapters written by internationally renowned experts. Full-color illustrations and detailed radiographs guide you through each step of endodontic care - from diagnosis and treatment planning to proven techniques for managing pulpal and periapical diseases. New to the print edition are seven new chapters, and the eBook version adds three more. As an Expert Consult title, Cohen's Pathways of the Pulp lets you search the entire contents of the book on your desktop or mobile device, and includes videos, case studies, and more. Edited by noted specialists Kenneth Hargreaves and Louis Berman, this book is the definitive resource in endodontics! Print version of the text includes 27 comprehensive chapters and meets the CODA requirements for endodontic dental education. EBook version of the text consists of 30 searchable chapters, including the 27 chapters in the print version, and features videos, PowerPoint® slides, review questions, case studies, and more; this expanded version makes it easy to find clinical answers quickly, and meets the needs of students, clinicians, and residents in endodontics. Videos and animations demonstrate key procedures such as palpation of the masseter muscle, introsseous anesthesia with the X-tipT system, dentin hypersensitivity, indirect ultrasound, palpation of the temporomandibular joint, and ultrasonic settling. Over 2,000 illustrations

include full-color photos and line art, along with a wide range of radiographs, clearly demonstrating core concepts and reinforcing the essential principles and techniques of endodontics. NEW co-editor Dr. Louis H. Berman joins lead editor Dr. Kenneth M. Hargreaves for this edition, and a respected team of contributors includes experts from many U.S.-based dental education programs, as well as programs in Canada, the U.K., Norway, Sweden, France, Germany, Italy, and Switzerland. NEW chapter organization reflects the chronology of endodontic treatment with three comprehensive sections: Clinical Endodontics, focusing on core clinical concepts, and Biological Basis of Endodontics and Endodontics in Clinical Practice, both with information that advanced students, endodontic residents, and clinicians need to know. NEW! Three chapters are available in the eBook: Understanding and Managing the Anxious Patient, Endodontic Records and Legal Responsibilities, and Endodontic Practice Management. NEW Radiographic Interpretation chapter clarifies the diagnostic process with coverage of imaging modalities, diagnostic tasks, three-dimensional imaging, cone beam computed tomography, intra- or post-operative assessment of endodontic treatment complications, and more. NEW Pain Control chapter addresses the management of acute endodontic pain with coverage of local anesthesia for restorative dentistry and endodontics, along with nonnarcotic analgesics and therapeutic recommendations. NEW Evaluation of Outcomes chapter helps you achieve optimal treatment outcomes with information on topics such as the reasons for evaluating outcomes, outcome measurements for endodontic treatment, and the outcomes of vital pulp therapy procedures, non-surgical root canal treatment, non-surgical retreatment, and surgical retreatment. NEW Root Resorption chapter covers the early detection, diagnosis, and histological features of root resorption, as well as external inflammatory resorption, external cervical resorption, and internal resorption. NEW Iatrogenic Endodontics chapter addresses failed treatment scenarios with key information on the event itself, the etiology, soft and hard tissue implications and symptoms, and treatment options and prognosis; the events include cervico-facial subcutaneous emphysema, sodium hypochlorite accidents, perforations (non-surgical), inferior alveolar nerve injury, surgical, sinus perforation, instrument separation, apical extrusion of obturation materials, and ledge formation. NEW Vital Pulp Therapy chapter provides an overview of new treatment concepts for the preservation of the pulpally involved permanent tooth, covering topics such as the living pulp, pulpal response to caries, procedures for generating reparative dentin, indications and materials for vital pulp therapy, MTA applications, and treatment recommendations. NEW Bleaching chapter addresses procedures that can be utilized during and following endodontic treatment to eliminate or reduce any discoloration issues, reviewing internal and external bleaching procedures and their impact on pulpal health/endodontic treatment - with presentations of cases and clinical protocols.

**Disinfection of Root Canal Systems** - Nestor Cohenca 2014-06-18  
Clean root canal systems are essential for successful endodontic treatment. With contributions from leading endodontists from around the world, Dr. Nestor Cohenca here presents the etiology of endodontic disease caused by the endodontic biofilm and all therapies available to predictably disinfect the root canal system, thus increasing successful endodontic outcomes. Disinfection of Root Canal Systems: The Treatment of Apical Periodontitis is an evidence-based manual that describes root canal anatomy, the endodontic biofilm, and the role of disinfection before presenting the most up-to-date methods of irrigation and disinfection. Individual chapters are devoted to each method, such as positive pressure irrigation, apical negative pressure irrigation, sonic activation,

photodynamic therapy, laser technology, and ozonization and electrochemical activation. Clinical photographs throughout show proper irrigation and disinfection techniques.

Human Teeth - 2020-01-22

This book provides information on nomenclature, tooth numbering systems, tooth morphology, and anatomy and stages of tooth formation. It continues with root canal morphology and anatomy of incisors, canines, premolars, and molars. External and internal anatomies of mandibular permanent incisors and maxillary permanent first molars are presented according to a literature review. Orofacial structures affecting tooth morphology are discussed in detail. The book ends with the evolution of dental implant shapes and today's custom root analog implants.

Textbook of Endodontics - Nisha Garg 2018-10-31

Endodontics is the prevention, diagnosis and management of diseases of the tooth pulp and the tissues surrounding the root of a tooth. This new edition is a complete guide to endodontics for dental students. Divided into 39 chapters, the book covers numerous procedures and case studies and the text is further enhanced by more than 1500 clinical photographs, diagrams and tables. The fourth edition has been fully revised, and new topics added, to provide students with the latest information and advances in the field. Key points and clinical tips are highlighted for each topic and questions are included at the end of each chapter to assist exam preparation. Key points Complete guide to endodontics for dental students Fully revised, new edition providing latest advances in the field Includes more than 1500 clinical photographs, diagrams and tables Previous edition (9789350909522) published in 2013

The Guidebook to Molar Endodontics - Ove A. Peters 2016-11-23

This volume offers readers a pragmatic approach to endodontic therapy for permanent molars, based on up-to-date evidence. All chapters were written by experts in the field, and focus on preparation for treatment, vital pulp therapy, access cavity preparation, root canal shaping, outcome assessment, retreatment, apical surgery, and specific aspects of restorations for root canal-treated molars. The role of micro-CT data in visualizing canal anatomy is compared to cone beam CT, and detailed information on current clinical tools, such as irrigation adjuncts and engine-driven preparation tools is provided. Important steps are illustrated in clinical photographs and radiographs, as well as by schematic diagrams. Tables and check boxes highlight key points for special attention, and clinical pitfalls. Guiding references are provided. Performing molar endodontics is often a daunting prospect, regardless of the practice setting. This is where "Molar Endodontics" is an ideal source of guidance for practitioners. Special devices and recent innovations in apex locators and nickel-titanium instruments have, however, made procedures significantly easier and more practical for non-specialists. This book will help conscientious clinicians to master molar endodontics with well-described and established clinical methods.

**The Anatomy of the Root-canals of the Teeth of the Permanent Dentition** - Walter Hess 1925

Wurzelkanal / Anatomie

Endodontics - Mahmoud Torabinejad 2009-01-01

This 4th edition is an essential scientific & clinical building block for understanding the etiology & treatment of teeth with pulpal & periapical diseases. You'll easily understand & learn procedures through step-by-step explanations accompanied by illustrations, as well as video clips included on CD.

**Endodontic Treatment, Retreatment, and Surgery** - Bobby Patel 2016-08-01

This book provides clear, concise guidance on a range of essential treatment strategies for the provision of reliable endodontic care. Practical clinical procedures are described step by step and key concepts emphasized with the aid of a wealth of high-quality illustrations and photographs. Examples of best practice are documented by means of clinical case examples, and the provision of concise tips and recommendations ensures that the reader will quickly be able to find solutions to any one of the myriad of endodontic challenges with which he or she may be confronted. In addition, the most relevant key literature is reviewed in order to support and reinforce the discussed clinical concepts. The described endodontic treatment strategies are all grounded in a sound scientific evidence base. The book should enable practitioners to manage any endodontic case from first principles and will be of value for both dental practitioners and endodontic trainees/specialists.

Ingle's Endodontics - Ilan Rotstein, DDS 2019-06-01

Ingle's Endodontics, 7th edition, is the most recent revision of the text

that has been known as the "Bible of Endodontics" for half a century. The new edition, published in two volumes, continues the tradition of including the expertise of international leaders in the field. Eighty-six authors contributed cutting-edge knowledge and updates on topics that have formed the core of this book for years. New chapters reflect the ways in which the field of endodontics has evolved over the 50 years since the pioneer John I. Ingle authored Endodontics. Ingle's Endodontics will continue to be the standard against which all other endodontic texts will be measured. The 40 chapters are arranged in two volumes under three sections: The Science of Endodontics; The Practice of Endodontics: Diagnosis, Clinical Decision Making, Management, Prognosis; and Interdisciplinary Endodontics. With contributions from the world's experts in all phases of the specialty, Ingle's Endodontics, 7th edition promises to be an indispensable dentistry textbook, an essential part of every endodontist's library.

Cohen's Pathways of the Pulp Expert Consult - E-Book - Louis H. Berman 2015-09-23

The definitive endodontics reference, Cohen's Pathways of the Pulp is known for its comprehensive coverage of leading-edge information, materials, and techniques. It examines all aspects of endodontic care, from preparing the clinician and patient for endodontic treatment to the role the endodontist can play in the treatment of traumatic injuries and to the procedures used in the treatment of pediatric and older patients. Not only does Hargreaves and Cohen's 10th edition add five chapters on hot new topics, it also includes online access! As an Expert Consult title, Cohen's Pathways of the Pulp lets you search the entire contents of the book on your computer, and includes five online chapters not available in the printed text, plus videos, a searchable image collection, and more. For evidence-based endodontics research and treatment, this is your one-stop resource!

**Digitization in Dentistry** - Priyanka Jain 2021-03-22

This book provides evidence-based guidance on the clinical applications of digital dentistry, that is, the use of dental technologies or devices that incorporate digital or computer-controlled components for the performance of dental procedures. Readers will find practically oriented information on the digital procedures currently in use in various fields of dental practice, including, for example, diagnosis and treatment planning, oral radiography, endodontics, orthodontics, implant dentistry, and esthetic dentistry. The aim is to equip practitioners with the knowledge required in order to enhance their daily practice. To this end, a problem-solving approach is adopted, with emphasis on key concepts and presentation of details in a sequential and easy to follow manner. Clear recommendations are set out, and helpful tips and tricks are highlighted. The book is written in a very readable style and is richly illustrated. Whenever appropriate, information is presented in tabular form to provide a ready overview of answers to frequent doubts and questions.

Text Book of Endodontics - Kohli 2009

Textbook of Endodontics is a comprehensive text on current practice, trends and philosophy in the art and science of endodontics. The book has been specifically written keeping the curriculum needs of a final year undergraduate student in mind, and is strictly as per the Dental Council of India (DCI) guidelines. About the Author : - Anil Kohli completed his graduation and postgraduation from Faculty of Dental Sciences, King George's Medical College, Lucknow. He is widely respected for his immense contributions to the field of Dentistry all over the world. In appreciation of his distinguished services, he was conferred the 'Padma Shree' in 1992 and the Padma Bhushan' in 2005. He has also received the coveted 'Dr B C Roy National Award' as well as the 'S S Bhatnagar Award' from King George's Medical College, Lucknow, for his outstanding work. Dr Kohli has published several research papers in National and International journals, headed several professional bodies and is currently the President of Dental Council of India. In recognition of his outstanding contributions, he has been conferred the Honorary rank of 'Brigadier' in the Army Dental Corps. He is also Dean, Faculty of Dentistry, Baba Farid University, Punjab. He is an Adjunct Professor to Boston and Tufts University. He has been awarded fellowship of Royal College of Dental Surgeons of England. He is the Chairman of Education Committee, Asia Pacific Dental Congress (APDC) and a member of the Education Committee of Fédération Dentaire Internationale (FDI). He has to his credit 10 honorary PhD / DSc degrees from various national and international universities.

**Seltzer and Bender's Dental Pulp** - Kenneth M. Hargreaves 2012

"Nearly three decades ago, Samuel Seltzer and I. B. Bender pioneered the concept of developing biologically based recommendations for the

clinical practice of endodontics and restorative dentistry. This concept was the cornerstone of their classic textbook, *The Dental Pulp*. Seltzer and Bender's *Dental Pulp* represents the evolution of that book and of the philosophical principles on which it was based. Today we know that pulp tissue plays a central role in both local and systemic health. This book presents the latest research on the dental pulp and its interaction with other tissues. Each chapter provides an introduction to its major themes for the busy clinician or dental student, as well as a set of biologically based clinical recommendations for restorative and endodontic procedures. "--Publisher.

*Cone Beam Computed Tomography in Endodontics* - Shanon Patel  
2019-09-16

In recent years, cone beam computed tomography (CBCT) has become much more widely available and utilized in all aspects of dentistry, including endodontics. *Cone Beam Computed Tomography in Endodontics* is designed to inform readers about the appropriate use of CBCT in endodontics, and enhance their clinical practice with this exciting imaging modality.

**Wheeler's Dental Anatomy, Physiology and Occlusion: 1st SAE - E-book** - Stanley J. Nelson 2015-05-25

Get to the root of dental anatomy and its physiological and occlusal relationships! Applying dental anatomy to the practice of dentistry, this market-leading text provides illustrated coverage of dentitions, pulp formation, the sequence of eruption, and clinical considerations. The chapter on Clinical Applications of Dental Anatomy, Physiology, and Occlusion includes instructions on root planing and scaling, extraction techniques and forces, the relationship of fillings to pulp form and enamel form, and more. Over 900 full-color images include detailed anatomical illustrations as well as clinical photographs. Practical appendices include Review of Tooth Morphology from in utero to adolescence to adulthood, and Tooth Traits of the Permanent Dentition with information such as tooth notation, dimensions, the position of proximal contacts, heights, and curvatures.

**Cloacal Morphology in Its Relation to Genito-urinary and Rectal Diseases** - Benjamin Merrill Ricketts 1916

**Endodontics-South Asia Edition, 6e - E-Book** - Mahmoud Torabinejad  
2020-10-16

From renowned endodontics experts Mahmoud Torabinejad, Ashraf Fouad, and Shahrokh Shabahang comes *Endodontics: Principles and Practice*, 6th Edition south Asia Edition. This focused and extensively revised new edition contains all the clinically-relevant information needed to incorporate endodontics into general dentistry practice. Illustrated step-by-step guidelines address the ins and outs of diagnosis, treatment planning, managing pulpal and periapical diseases, and performing basic root canal treatments. Updated evidence-based coverage also includes topics such as the etiology of disease, local anesthesia, emergency treatment, obturation, and temporization. It's the perfect endodontics guide for both entry-level dental students and general dentists alike. Well-known, international contributors share guidelines, expertise, and their clinical experience with contemporary technologies and procedures. Authoritative, visually detailed coverage provides a practical understanding of basic endodontic principles and procedures, including pulpal and periapical diseases and their management. Clinically-relevant organization reflects the order in which procedures are performed in clinical settings, enhancing your understanding of the etiology and treatment of teeth with pulpal and periapical diseases. Over 1,000 full-color illustrations ensure a clear, accurate understanding of procedures, and include radiographs and clinical photographs. Learning objectives help you meet the theoretical and procedural expectations for each chapter. NEW! Sharper focus on the most clinically relevant content eliminates much of the basic science that you have already studied and focuses on the information and skills that are most-needed during clinical practice. NEW! Fully updated, evidence-based content integrates the best clinical evidence with the practitioner's clinical expertise and the patient's treatment needs and preferences. NEW! Mid-chapter questions check your understanding of the concept before moving onto the next topic.

*Human Tooth Crown and Root Morphology* - G. Richard Scott 2017-03-16  
A valuable guide to scoring crown and root traits in human dentitions for ancestry estimation and biodistance analysis.

*Endodontics E-Book* - Mahmoud Torabinejad 2020-06-25

Well-known, international contributors share guidelines, expertise, and their clinical experience with contemporary technologies and procedures. Authoritative, visually detailed coverage provides a practical

understanding of basic endodontic principles and procedures, including pulpal and periapical diseases and their management. Clinically-relevant organization reflects the order in which procedures are performed in clinical settings, enhancing your understanding of the etiology and treatment of teeth with pulpal and periapical diseases. Over 1,000 full-color illustrations ensure a clear, accurate understanding of procedures, and include radiographs and clinical photographs. Learning objectives help you meet the theoretical and procedural expectations for each chapter. More than 67 video clips located on the companion website demonstrate essential procedures.

*Biomaterials in Endodontics* - Zohaib Khurshid 2021-10-29

*Biomaterials in Endodontics* offers an up-to-date overview of endodontic biomaterials and their applications in regenerative medicine and tissue engineering. This book details the key biomaterials used in clinical endodontics and the benefits and challenges of using these materials, from root canal obturation materials to alloys for endodontic files and hand instruments. Chapters also offer a unique insight into the regenerative applications of endodontic biomaterials, such as the use of stem cells and growth factors for bone regeneration. *Biomaterials in Endodontics* is a useful resource for researchers working in biomedical engineering, regenerative medicine, and materials science with an interest in dentistry and bone regeneration. This book is also a helpful guide for endodontists, dentists, dental scientists, and clinicians with an interest in biomaterials for endodontics. Details the latest innovations in materials used for endodontic procedures Offers a unique insight into regenerative applications of endodontic biomaterials Appeals to an interdisciplinary readership, combining materials science, regenerative medicine, and biomedical engineering approaches

*Minimally Invasive Approaches in Endodontic Practice* - Gianluca Plotino  
2020-10-05

This book describes the latest minimally invasive approaches in endodontics and explains the principles that guide them. The advantages and limitations of these approaches are critically analyzed with the intention of defining new endodontic gold standards. The trend toward the use of more conservative procedures within endodontics reflects the wider adoption of minimally invasive dentistry in general and is being fostered by the introduction of new materials, devices, instruments, and techniques as well as the use of magnification and advanced three-dimensional diagnostic imaging technologies. In this book, readers will find clear explanation of these advances and their impacts. Minimally invasive access to the root canal system is described, and detailed attention is devoted to the application of novel strategies in root canal instrumentation and disinfection, root canal filling, coronal restoration, retreatment, and endodontic surgery. Minimally invasive alternatives to complete endodontic treatment, such as vital pulp therapies, and to dental extraction and implant placement, including surgical extrusion, intentional replantation, and tooth autotransplantation, are also discussed. *Minimally Invasive Approaches in Endodontic Practice* will be of value for endodontists at all levels of experience.

*Endodontic Irrigation* - Bettina Basrani 2015-07-17

This book reviews the available information on bacterial disinfection in endodontics, with emphasis on the chemical treatment of root canals based on current understanding of the process of irrigation. It describes recent advances in knowledge of the chemistry associated with irrigants and delivery systems, which is of vital importance given that chemical intervention is now considered one of the most important measures in eliminating planktonic microbes and biofilms from the infected tooth. Recommendations are made regarding concentrations, exposure times and optimal sequences. Possible complications related to the use of the different solutions are highlighted, with guidance on response. In addition, clinical protocols are suggested on the basis of both clinical experience and the results of past and ongoing research. Throughout, a practical, clinically oriented approach is adopted that will assist the practitioner in ensuring successful endodontic treatment.

*Diseases and Conditions in Dentistry* - Keyvan Moharamzadeh  
2018-04-25

*Diseases and Conditions in Dentistry: An Evidence-Based Reference* is the ideal, one-stop guide for dentistry clinicians to keep at their side. Provides a quick reference for the busy clinician covering diseases and conditions in endodontics, periodontics, prosthodontics and restorative dentistry Offers identically formatted chapters following the same clear and concise layout with detailed clinical cases and evidence-based discussions Features a companion website with additional clinical photographs, radiographs, and case notes

**Quintessence International** - 2009

*Clinical Periodontology and Implant Dentistry, 2 Volume Set* - Niklaus P. Lang 2015-03-25

Now in its sixth edition, *Clinical Periodontology and Implant Dentistry* is the must-have resource for practitioners specialising in periodontal care and implant dentistry. The chapters have been extensively revised with 40% of the content new to this edition. Maintaining the widely praised two-volume format introduced in the previous edition, the editorial team has once again brought together the world's top international specialists to share their expertise on all aspects of periodontology, periodontal health and the use of implants in the rehabilitation of the periodontally compromised patient. Seamlessly integrating foundational science, practical clinical protocols, and recent advances in the field, *Clinical Periodontology and Implant Dentistry, Sixth Edition* enhances its stellar reputation as the cornerstone reference work on periodontology.

*Diagnosis and Treatment of Furcation-Involved Teeth* - Luigi Nibali 2018-05-29

*Diagnosis and Treatment of Furcation-Involved Teeth* offers dental professionals a comprehensive review of the aetiology and diagnosis of furcation defects, including treatment options. Provides a practical manual for the successful diagnosis and treatment of a therapeutic challenge for general dentists and periodontists. Presents illustrative photographs of clinical cases and procedures. Offers a helpful chapter on patient-reported outcomes. Includes a companion website with video clips and case studies.

*The Root Canal Anatomy in Permanent Dentition* - Marco A. Versiani 2018-07-25

This book describes the most commonly methods used for the study of the internal anatomy of teeth and provides a complete review of the literature concerning the current state of research employing contemporary imaging tools such as micro-CT and CBCT, which offer greater accuracy whether using qualitative or quantitative approaches. In order to facilitate the management of complex anatomic anomalies, specific clinical protocols and valuable practical tips are suggested. In addition, supplementary material consisting in high-quality videos and images of different anatomies obtained using micro-CT technology is made available to the reader. The book was planned and developed in collaboration with an international team comprising world-recognized researchers and experienced clinicians with expertise in the field. It will provide the readers with a thorough understanding of canal morphology and its variations in all groups of teeth, which is a basic prerequisite for the success of endodontic therapy.

*Shaping for Cleaning the Root Canals* - Gustavo De Deus 2022

This book provides clinicians with up-to-date, scientifically based guidance on the most important stages of endodontic treatment, i.e., cleaning and shaping of the root canal space, including mechanical preparation and chemical disinfection. Five internationally recognized experts present and discuss recent developments and new perspectives in the field. Important advances in root canal preparation and irrigation procedures are described with the aid of numerous high-quality illustrations. A key feature of the book is the detailed attention devoted to the latest research findings and to their impact on contemporary evidence-based clinical guidelines and modern clinical practice. On this basis, simple treatment protocols are proposed that take the anatomy of the root canals fully into account. In addition, emerging problems and trends are considered. The book will be an excellent resource for clinicians and advanced practitioners who are seeking to update their practice.

*The Root Canal Biofilm* - Luis E. Chávez de Paz 2016-08-23

This book presents the current state of research on the basic scientific aspects of root canal biofilm biology within a clinically applicable context. Root canal biofilms are complex polymicrobial structures adhering to the root canal surface that are formed by microorganisms invading the pulpal space of teeth, and are associated with persistent root canal infections. Concerted efforts to study root canal biofilms have been made in the past decade, resulting in the publication of observational and experimental studies that detail the morphology and biology of these structures in infected root canals. In addition to confirming that bacteria in root canals do not exist in free-floating planktonic states as previously assumed, this new information on root canal biofilm infections has provided an opportunity to re-evaluate conventional clinical protocols and improve endodontic therapeutic measures.

*Current Therapy in Endodontics* - Priyanka Jain 2016-08-08

Dentistry has been undergoing enormous changes, and the field of endodontics has certainly been at the forefront. Recent advances in

technology, materials, and equipment have changed the way endodontics is practiced today, thereby facilitating treatments with greater efficiency, precision, and success, ultimately leading to better outcomes. Current Therapy in Endodontics encompasses the recent discoveries and applications for this field in one clinically relevant volume. Evidence-based presentation of recent advances in the field of endodontics. Objective comparison of materials and instruments on the market. Tables present key data and instruction for quick viewing and comprehension.

**Endodontic Advances and Evidence-Based Clinical Guidelines** -

Hany M. A. Ahmed 2022-09-30

Explores recent research and innovations in the field of endodontics and provides evidence-based guidelines for contemporary dental practice. *Endodontic Advances and Evidence-Based Clinical Guidelines* provides a comprehensive and up-to-date description of recent research findings and their impact on clinical practice. Using an innovative approach to the field, the book enables readers to translate the current body of knowledge on endodontic diseases and treatment into guidelines for enhancing patient care. Divided into four parts, the book first addresses new research findings and advances in technology, techniques, materials, and clinical management. In addition, it provides revised clinical guidelines for a variety of areas within the specialty, such as endodontic diagnosis, treatment planning, management of endodontic emergencies, regenerative endodontic procedures, three-dimensional imaging, and the use of systemic antibiotics. Each chapter contains numerous high-quality illustrations and clinical cases highlighting current research directions, key concepts, and new trends in clinical techniques and education. *Endodontic Advances and Evidence-Based Clinical Guidelines: Presents the latest understanding of current literature, evidence, and clinical practice. Examines new trends, treatments, and advanced diagnostic techniques in the field. Covers a wide range of topics, including management of root canals, repair of perforation defects, removal of root filling materials, and alternatives to root canal treatment. Endodontic Advances and Evidence-Based Clinical Guidelines is an invaluable resource for undergraduate and postgraduate dental students, general dental practitioners, endodontic specialists, researchers in the field of endodontics, and clinicians, researchers, and educators in other fields of dentistry.*

**Textbook of Geriatric Dentistry** - Poul Holm-Pedersen 2015-06-19

*Textbook of Geriatric Dentistry, Third Edition* provides a comprehensive review of the aging process and its relevance to oral health and dentistry. Now in full colour, this third edition has been fully revised and updated with new material encompassing recent research and clinical developments within geriatric dentistry. Written in a clear and accessible style, this is an essential guide to geriatric dental practice for undergraduate and postgraduate dentistry students and practicing clinicians alike. Key features include: Contributions from an international group of expert authors. Comprehensive coverage of oral healthcare issues in the older adult, from demographics and physiology through to nutrition and pharmacology. Provides both foundational knowledge and a guide to clinical management. New chapters including material on orofacial pain, quality of life and treatment planning.

*Wheeler's Dental Anatomy, Physiology and Occlusion* - E-Book - Stanley J. Nelson 2019-11-09

Successfully learn to apply dental anatomy to the practice of dentistry with *Wheeler's Dental Anatomy, Physiology, and Occlusion, 11th Edition*. Updated and visually enhanced, the eleventh edition of this market-leading dental text expands its focus on clinical applications and includes dozens of online 360-degree and 3-D tooth animations to give you an unparalleled view of dentitions, pulp formation, the sequence of eruptions, and countless clinical considerations.

*Sensors for Everyday Life* - Octavian Adrian Postolache 2016-10-27

Sensors were developed to detect and quantify structures and functions of human body as well as to gather information from the environment in order to optimize the efficiency, cost-effectiveness and quality of healthcare services as well as to improve health and quality of life. This book offers an up-to-date overview of the concepts, modeling, technical and technological details and practical applications of different types of sensors. It also discusses the trends for the next generation of sensors and systems for healthcare settings. It is aimed at researchers and graduate students in the field of healthcare technologies, as well as academics and industry professionals involved in developing sensing systems for human body structures and functions, and for monitoring activities and health.

**Clinical Cases in Endodontics** - Takashi Komabayashi 2018-02-28

A problem-based text that presents a wide range of real cases in

endodontics Clinical Cases in Endodontics presents actual clinical cases, accompanied by academic commentary, that question and educate the reader about essential topics in endodontic therapy. It begins with sets of cases illustrating the most common diagnoses and the steps involved in preparing a treatment plan. Subsequent chapters continue in this style, presenting exemplary cases as the basis of discussing various treatment options, including nonsurgical root canal treatment, re-treatment, periapical surgery, internal and external resorption, emergencies and trauma, and treating incompletely developed apices. The progression from common to increasingly challenging clinical cases enables readers to build their skills, aiding the ability to think critically and independently. The Clinical Cases series is designed to recognize the centrality of clinical cases to the profession by providing actual cases with an academic backbone. Clinical Cases in Endodontics applies both theory and practice to real-life cases in a clinically relevant format. This unique approach supports the trend in case-based and problem-based learning, thoroughly covering the full range of endodontic treatment. Unique case-based format supports problem-based learning Promotes independent learning through self-assessment and critical thinking Covers all essential topics within endodontics Presents numerous illustrations and photographs throughout to depict the concepts described Clinical Cases in Endodontics is an ideal resource for students mastering endodontic treatment, residents preparing for board examinations, and clinicians wanting to learn the most recent evidence-based treatment protocols.

**Neutrosophic Sets and Systems, Vol. 37, 2020. Special issue: Impact of neutrosophy in solving the Latin American's social problems** - Florentin Smarandache

The main objective of this special issue is to divulge the applicability of the Neutrosophic Theory and to explore the possibilities and advantages of neutrosophic tools, through both the presentation of thorough research and case studies in solving social problems in Latin America. The best presentations discussed at the III International Congress of Educational Research and University Innovation, turned into papers, show us the capacity for socialization of neutrosophic knowledge and its link with this science of validation and consolidation of scientific knowledge. This publication with authors from 11 countries that we place in the hands of the international scientific community, constitutes an example of how in Latin America the Neutrosophy is contributing to complex solutions based on the results of scientific research carried out by teachers and students committed to the social responsibility of continuing to progress for the benefit of humanity.

**Endodontics: Principles and Practice E-book** - Arvind Shenoy  
2016-06-01

Endodontics: Principles and Practice E-book

**Endodontic Prognosis** - Nadia Chugal 2016-12-24

This book serves as a clinical guide to help the practitioner improve endodontic treatment outcomes. It focuses on the various factors affecting the prognosis of endodontic treatments and on their impact on short-term and long-term results. The text incorporates up-to-date knowledge, techniques and treatment protocols. Each chapter has been carefully chosen to address either foundational knowledge or a select aspect of endodontic treatment. The authors analyze the knowledge accumulated from a large number of outcome studies and provide the

reader with a critical appraisal indicating the strengths and weaknesses of those studies. This information is then used to make recommendations on how to predict the outcome of the intended treatment. The authors emphasize that the endodontic prognosis is a multifactorial phenomenon, underscoring how various factors, singularly and in combination, influence the treatment outcome. Readers are provided with tools to successfully assess the prognosis of the proposed treatment at the outset and to execute the planned treatment focused on optimal outcome.

**Harty's Endodontics in Clinical Practice E-Book** - Bun San Chong  
2016-07-28

This book is a guide to proven, current clinical endodontic practice. It is designed, primarily, with the undergraduate readership in mind but is also suitable for anyone pursuing specialist training, including extended skills in endodontics, and general dental practitioners undertaking CPD, or wishing to keep up-to-date. The seventh edition is available with an online question bank containing MCQs and Clinical Cases. Practical approach to the subject, taking the reader through every step of endodontic practice from its scientific basis to patient assessment and through to clinical techniques Helpful pedagogic features - including Learning Outcomes and Summary Boxes - help reinforce learning International experts and contributors help ensure good coverage and currency of information Explores areas of debate when they exist to reflect differing approaches to treatment intervention Explains the potential impact of systemic conditions and disorders, as well as medications, on endodontic treatment planning and management Discusses the diagnosis of orofacial pain and the appropriate use of antibiotics and analgesics Explores the maintenance of pulp vitality and the prevention of apical periodontitis in the context of operative dentistry Provides an overview of instruments and devices used during endodontic treatment Describes the fundamental principles of canal filling using gutta-percha, as well as the use of alternative materials, and newer root filling techniques Discusses the management of dental trauma with emphasis on accurate diagnosis, timely and appropriate treatment, and follow-up Explores the interface between endodontic-periodontal disease in the context of diagnosis, treatment and prognostic assessment Discusses common challenges such as inadequate pain control and problems with preparation and filling of the root canal system Written at a level which is ideal for dental students, general dental practitioners and those pursuing specialist training or seeking to keep up-to-date Comes with access to an online question bank containing a wide range of MCQs and Clinical Cases to help reinforce learning! Richly illustrated with over 80 colour artworks - many created by the Gray's Anatomy illustration team - and 350 photographs, many of which are previously unpublished Explores advances in our understanding of the role of microorganisms in the pathogenesis of pulpal and periradicular diseases and the role of host defence response against root canal infection Explores the use of newer imaging techniques such as three-dimensional tomography in determining pulp space anatomy and in treatment planning Explains recent advances in material technology, molecular biology and regenerative medicine in the management of deep caries and maintenance of pulp vitality Explores the effective use of existing and newer chemomechanical preparation techniques and intracanal medication for thorough root canal system decontamination Explores advances in the techniques available for restoring endodontically treated teeth