

Root Canal Morphology And Its Relationship To Endodontic

In recent years, cone beam computed tomography (CBCT) has become much more widely available and utilised 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.

There are no limits of morphological variability of the root canal. So, it is mandatory that the clinician should possess a thorough knowledge of not only the normal anatomy of the root canal system, but also aberrations. To minimize the risk of endodontic treatment failure, a precise knowledge of the root canal morphology is vital. This present research will thus guide the practioners as well as students to take this into account and thus be of help in treating their patients successfully.

This clinical guide is a concise up-to-date resource that covers a wide range of endodontic procedures, including non-surgical root canal therapy, surgical root canal therapy, trauma care and the management of fractured teeth, apexification, apexogenesis, revascularization, regeneration, Cvek partial pulpotomy, root canal retreatment, and periapical surgery. The provision of numerous flowcharts, checklists, and advice on error avoidance for each procedure will assist in decision-making in daily practice. Scientific and clinical evidence regarding the use and efficacy of the different forms of treatment is summarized, and helpful information is also presented on instrumentation. The inclusion of exam questions will assist those preparing for endodontic examinations. A Primer on Endodontic Treatment will be of value for dental students, residents in training to become endodontists, endodontists, pediatric dentists, and established dentists.

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.

Endodontic Materials in Clinical Practice Endodontic Materials in Clinical Practice delivers a much-needed comprehensive and clinically oriented reference to the materials used in endodontic practice. It provides complete details on the properties of the materials required for specific techniques in order to help in the selection of the appropriate materials and improve patient outcomes. Comprehensive in scope and filled with helpful illustrations, the book covers endodontic materials used from the pulp to the root-end. In addition, the text considers the location and technique for each of the materials presented. Designed to be a practical and accessible reference, the book is organised by specific clinical procedure. Presents an illustrated guide to all materials used in endodontic practice Focuses on the clinical application for each material Explains why specific materials are used Includes information on how to select the correct material Considers locations and techniques in making material decisions Written for specialist endodontists and residents, dental material specialists, post-graduate students, general dentists, and dentistry students, Endodontic Materials in Clinical Practice is an essential resource for selecting the right materials for specific techniques.

Wiggs's Veterinary Dentistry: Principles and Practice, Second Edition is a fully updated and expanded new edition of the classic comprehensive reference for veterinary dentistry. Provides current, comprehensive information on veterinary dentistry Encompasses rudimentary tenets of the field as well as advanced techniques Presents the state-of-the-art in veterinary dentistry, with all topics fully updated, revised, and expanded to reflect current knowledge Written by leading veterinary dental specialists and edited by luminaries in the field Includes more images and color throughout to support the text 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.

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

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.

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

"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.

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. The new 3rd Edition of this fundamental text covers basic, need to know topics in endodontics, written at a level that's ideal for both the undergraduate dental student as well as the practitioner. The book's unique approach includes detailed coverage of the basic sciences and separate chapters on practical topics such as referral, patient education, procedural accidents, and radiography. New chapters, expanded topics, and additional illustrations bring this Edition fully up-to-date with the fast-paced field of endodontics. Includes some new chapters, expanded topics, and additional illustrations Six page 2 colour inserts (72 pictures) Over 300 new illustrations

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.

Zahnwurzel / Anatomie / Wurzelkanal.

This book is intended as a practical guide to endodontic diagnosis, pathology, and treatment planning. The coverage is comprehensive and encompasses such topics as disease classification, the endodontic armamentarium, anatomy, the role of different radiographic techniques, treatment decision making, preoperative management, the use of antibiotics and analgesics, and anesthesia. Numerous high-quality illustrations and clinical photographs are included to highlight key concepts and findings, and best practice is documented by means of clinical case examples. The provision of concise tips and recommendations ensures that the reader will quickly be able to find solutions to diverse endodontic challenges. In addition, the most relevant literature is reviewed in order to support and reinforce the discussed clinical concepts. The book will assist dental practitioners and endodontic trainees/specialists in planning the management of any endodontic case from first principles.

This guide to scoring crown and root traits in human dentitions substantially builds on a seminal 1991 work by Turner, Nichol, and Scott. It provides detailed descriptions and multiple illustrations of each crown and root trait to help guide researchers to make consistent observations on trait expression, greatly reducing observer error. The book also reflects exciting new developments driven by technology that have significant ramifications for dental anthropology, particularly the recent development of a web-based application that computes the probability that an individual belongs to a particular genogeographic grouping based on combinations of crown and root traits; as such, the utility of these variables is expanded to forensic anthropology. This book is ideal for researchers and graduate students in the fields of dental, physical, and forensic anthropology and will serve as a methodological guide for many years to come.

The book describes teeth development and components with classification of canal configurations. Different methods of studying of root canal morphology were illustrated and compared. Followed by detailed description of root canal morphology of individual tooth with concentration on third molar. There has been little published work about root and canal morphology of third molar in the dental literature and no published work conducted on Jordanian or Middle Eastern population. The aim of this monograph was to investigate root and canal morphology of third molar in a Jordanian population.

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.

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