

Root canal morphology and its relationship to endodontic procedures

FRANK J. VERTUCCI

The hard tissue repository of the human dental pulp takes on numerous configurations and shapes. A thorough knowledge of tooth morphology, careful interpretation of angled radiographs, proper access preparation and a detailed exploration of the interior of the tooth are essential prerequisites for a successful treatment outcome. Magnification and illumination are aids that must be utilized to achieve this goal. This article describes and illustrates tooth morphology and discusses its relationship to endodontic procedures. A thorough understanding of the complexity of the root canal system is essential for understanding the principles and problems of shaping and cleaning, for determining the apical limits and dimensions of canal preparations, and for performing successful microsurgical procedures.

It is important to visualize and to have knowledge of internal anatomy relationships before undertaking endodontic therapy. Careful evaluation of two or more periapical radiographs is mandatory. These angled radiographs provide much needed information about root canal morphology. Martinez-Lozano et al. (1) examined the effect of x-ray tube inclination on accurately determining the root canal system present in premolar teeth. They found that by varying the horizontal angle 20° and 40° the number of root canals observed in maxillary first and second and mandibular first premolars coincided with the actual number of canals present. In the case of mandibular second premolars only the 40° horizontal angle identified the correct morphology. The critical importance of carefully evaluating each radiograph taken prior to and during endodontic therapy was stressed by Friedman et al. (2). In a case report of five canals in a mandibular first molar, these authors emphasized that it was the radiographic appearance which facilitated recognition of the complex canal morphology. They cautioned 'that any attempt to develop techniques that require fewer radiographs runs the risk of missing information which may be significant for the success of therapy'.

Radiographs, however, may not always determine the correct morphology particularly when only a buccolingual view is taken. Nattress et al. (3) radiographed 790 extracted mandibular incisors and premolars in order to assess the incidence of canal bifurcation in a root. Using the 'fast break' guideline (Fig. 1) that disappearance or narrowing of a canal infers that it divides resulted in failure to diagnose one-third of these divisions from a single radiographic view. The evaluation of the root canal system is most accurate when the dentist uses the information from multiple radiographic views together with a thorough clinical exploration of the interior and exterior of the tooth.

The main objective of root canal therapy is thorough shaping and cleaning of all pulp spaces and its complete obturation with an inert filling material. The presence of an untreated canal may be a reason for failure. A canal may be left untreated because the dentist fails to recognize its presence. It is extremely important that clinicians use all the armamentaria at their disposal to locate and treat the entire root canal system. It is humbling to be aware of the complexity of the spaces we are expected to access, shape, clean and fill. We can take comfort in knowing that even under the most

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Endodontics: Principles and Practice E-book Arvind Shenoy, KUNDABALA MALA, 2016-06-30 Endodontics Principles and Practice E book *Endodontic Advances and Evidence-Based Clinical Guidelines* Hany M. A. Ahmed, Paul M. H. Dummer, 2022-10-03 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 Endodontics** Nisha Garg, Amit 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 **Endodontics E-Book** Mahmoud Torabinejad, Ashraf F. Fouad, Shahrokh Shabahang, 2020-06-25 Selected for Doody's Core Titles 2024 in Dentistry From renowned endodontics experts Mahmoud Torabinejad Ashraf Fouad and Shahrokh Shabahang comes Endodontics Principles and Practice 6th Edition This focused and extensively revised new edition contains all the clinically relevant information needed to incorporate endodontics into general dentistry practice

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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 3D Imaging in Endodontics Mohamed I. Fayad,Bradford R. Johnson,2023-07-26 This book now in an extensively revised second edition is designed to provide the reader with a full understanding of the role of cone beam computed tomography CBCT in helping to solve many of the most challenging problems in endodontics It will shorten the learning curve in application of this exciting imaging technology in a variety of contexts difficult diagnostic cases treatment planning evaluation of internal tooth anatomy prior to root canal therapy nonsurgical and surgical treatments early detection and treatment of resorptive defects and outcomes assessment The ability to obtain an accurate 3D representation of a tooth and the surrounding structures by means of noninvasive CBCT imaging is changing the approach to clinical decision making in endodontics Clinicians long accustomed to working in very small three dimensional spaces are no longer constrained by the limitations of two dimensional imaging The challenges of mastering the new technology can however be daunting The detailed guidance contained in this book will help endodontists to take full advantage of the important benefits offered by CBCT

Quintessence International ,2009 Current Concepts in Endodontics Abdulrahman Al Kandari,1997 *The Root Canal Anatomy in Permanent Dentition* Marco A. Versiani,Bettina Basrani,Manoel D. Sousa-Neto,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 **The Root Canal Morphology of Mandibular Second Bicuspid** Richard Martin Zillich,1972 *Cohen. Vías de la Pulpa + ExpertConsult* Kenneth M. Hargreaves,Louis.H. Berman,2016-06-22 Nueva edici n de la obra de referencia en el rea de la endodoncia que bajo la direcci n del Dr Harhgreaves y el Dr Berman contnua present ndose como la primera elecci n para el odont logo tanto por su larga trayectoria casi 40 a os en el mercado como por su gran reputaci n cient fica La 11a edici n presenta numerosos cambios tanto en el caso de nuevos cap tulos como de reorganizaci n de los ya existentes Por supuesto todos ellos han sido revisados pormenorizadamente y actualizados seg n las ltimas novedades Concretamente se han incorporado 8 nuevos cap tulos 7 de ellos en el libro formato print y 1 en la parte online Los nuevos cap tulos son

Interpretación radiológica Control del dolor Evaluación de los resultados Reabsorción radicular Tratamiento de los accidentes
 endodóncicos y otros tipos Fisuras y fracturas Tratamiento de la pulpa vital Los capítulos de la obra se han reorganizado y se
 han agrupado en tres partes parte I La ciencia básica de la endodoncia parte II La ciencia avanzada de la endodoncia y parte
 III Aplicación de las cuestiones clínicas Los siete capítulos que conforman la parte I se centran en los conceptos clínicos
 fundamentales para los estudiantes de Odontología los de las partes II y III aportan información que los residentes en
 Endodoncia y los profesionales de esta especialidad necesitan conocer Otros siete capítulos adicionales se incluyen en la
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