

# Restoration Of The Endodontically Treated Tooth

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Fiber Posts and Endodontically Treated Teeth  
The Principles of Endodontics  
Adhesive Restoration of Endodontically Treated Teeth  
Endodontic Treatment, Retreatment, and Surgery  
Restoration of Root Canal-Treated Teeth  
Endodontic Prognosis  
Nanomechanical Properties of Endodontically Treated Teeth  
Pocket Atlas of Endodontics  
Harty's Endodontics in Clinical Practice  
Reinforcement of Endodontically Treated Teeth  
Fracture Resistance and Mode of Failure of Endodontically Treated Teeth  
Restores with Fiber Reinforced Posts  
Post Endodontic Restorations  
The Guidebook to Molar Endodontics  
Ability Of Different Posts To Reinforce Endodontically Treated Teeth  
Textbook of Endodontology  
Pathways of the Pulp  
Apical Periodontitis in Root-Filled Teeth  
Advanced Endodontics  
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endodontic treatment saves the tooth from extraction but only adequate restoration will reinstate it as a long term functioning member of the mouth the restoration of a tooth by root canal treatment is of limited value unless the crown of tooth is satisfactorily restored the manner in which a root canal filled tooth is restored is therefore considerable importance the restoration of endodontically treated tooth is complicated by the fact that much or all of the coronal tooth structure which normally would be used in the retention of the restoration has been destroyed by caries previous restorations trauma and the endodontic access preparation itself the endodontically treated tooth is a unique subset of teeth requiring restoration because of several factors such as dehydrated dentin decreased structural integrity and impaired neurosensory feed back mechanism when compared to a vital tooth however the treatment goal must be based upon a multitude of factors specific for each patient so that the strategic architectural aspects that have greatest impact on the ultimate strength of the pulpless tooth can be restored reinforced

the principles of endodontics third edition is a contemporary and easy to read guide on why and how to carry out safe and effective endodontic treatment fully revised and updated the third edition applies endodontic theory to clinical practice in a pragmatic and user friendly way this comprehensive guide covers the core areas of endodontics from embryology of the dentine pulp complex to restoration of the endodontically treated tooth the new edition includes advice on how to solve problems that can occur during treatment and new self assessment questions fully revised the how to sections provide current step by step guidance with added colour photographs and line drawings the book reflects the latest available material and equipment and highlights interesting clinical cases the principles of endodontics third edition is the essential text for undergraduates and a useful reference for recent graduates as well as established clinicians who want to refresh their knowledge to continue their professional development

dentine bonding systems composite resins and fibre posts have widely replaced cast posts and amalgam as core materials all ceramic and composite crowns have also replaced metal ceramic crowns in many aesthetic cases the aim of this book is to provide the general practitioner with some principles and techniques for the adhesive restoration of root filled teeth

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

this book offers a comprehensive and up to date overview of the restoration of teeth retained through root canal treatment from the perspective of adhesive dentistry the challenge of adhesion to root dentin is first explained and guidance provided on assessment of the restorability of endodontically treated teeth the types of prefabricated passive post are then described in detail the advantages and disadvantages of each type are outlined with identification of the factors that influence post selection further topics include the ferrule effect evidence based clinical applications of fiber posts and new methods to lute fiber posts to the root canal without dentin adhesives in addition frequent myths are identified and dispelled all aspects are illustrated with clinical and laboratory images diagrams and high resolution electron microscopy photographs

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

more than 150 double page spreads endodontology has seen enormous advances in recent years new high tech tools such as operative microscopes in combination with ultrasound and nickel titanium files make possible a high level of quality in treatment with excellent long term treatment results regular updating of knowledge is indispensable for every practitioner this book provides a fast and up to date orientation of the entire area of endodontology didactic concept the classic thieme flexi format with concise text on the left and excellent illustrations on the right hand page of more than 150 double paged spreads oriented toward problem solving what is to be done with ongoing pain how should one react in an emergency situation what special considerations are there in children what should one do in the case of obliterated canals perforations and incomplete growth of roots when results are poor how does one plan revision procedures efficient treatment planning newest methods

this is a new edition of the now classic book which has established itself as a standard text for dental students practical approach to the subject taking the reader through every step of endodontic practice from scientific basis to patient assessment and through to clinical techniques evidence based approach to ensure safe clinical practice more than 250 illustrations many in full colour presenting clinical diagnostic and practical information in an easy to follow manner a logical approach to the subject by building upon a clear explanation of the underlying scientific principles prepared by international contributors to ensure a wider appeal written at a level which is ideal for dental student general and vocational dental practitioners includes new imaging techniques such as cone beam computed tomography a new chapter on diagnosis integral to treatment planning patient management and care recent research findings on the pathogenesis of endodontic disease and the management of persistent infection in previously treated teeth a completely rewritten chapter on the restoration of endodontically treated teeth newer treatment modalities and materials such as regenerative techniques and mineral trioxide aggregate in endodontics the use and development of niti instruments both hand and rotary which are increasingly popular for preparing root canals published for the first time in full colour with over 185 new images

endodontic treatment is largely performed on teeth significantly affected by caries multiple repeat restorations and or fracture already structurally weakened such teeth are often further weakened by the endodontic procedures designed to provide optimal access and by the restorative procedures necessary to rebuild the tooth root canal treatment weakens tooth structure and predisposes teeth to fracture root filled teeth are more susceptible to fracture than teeth with intact pulps because of loss of tooth structure due to caries trauma and root canal preparation use of intracanal medicament and few irrigants also contributes to decrease in fracture resistance of tooth in addition lateral compaction creates stresses in the root during obturation which could lead to subsequent fracture

when faced with the challenge of restoring an endodontically treated tooth the dentist must decide first whether the post is required and second the type of restoration that is indicated earlier a post was thought to strengthen the root of an endodontically treated tooth but it is widely held today that the primary purpose of post placement is to retain the core buildup material or to reinforce the remaining coronal tooth

structure it is difficult to discuss the longevity of teeth restored by a post because there are many variables to control the long term clinical success of an endodontically treated tooth is dependent on many factors the successful treatment of a badly broken down tooth with pulpal disease depends not only on good endodontic therapy but also on good prosthetic reconstruction of the tooth after endodontic therapy is completed the decision to place a post is based on several parameters these include the position of the tooth in the arch occlusion function of the restored tooth amount of remaining tooth structure and canal configuration

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

restoration of an endodontically treated tooth because of the significant loss of tooth structure often requires additional support from the root canal by means of a post and core restoration however post may generate stresses which lead to vertical root fracture and loss of the tooth since post design material used and the post space preparation has a significant influence on vertical fracture prevalence broad investigation is in progress to find out the optimum procedure esthetic functional and structural rehabilitation of a pulpless tooth are critically important to ensure a successful restorative outcome in cases where most of the coronal portion is lost a common method to restore such teeth is the use of a post and core onto which a full crown is cemented the post functions primarily to aid the retention of the restoration and to protect the tooth by dissipating or distributing forces along the tooth on the contrary the tooth is weakened if dentin is sacrificed to place a large diameter dowel the main purpose of this study was to evaluate the ability of different types of posts to reinforce endodontically treated teeth

the second edition of textbook of endodontology continues the aim of serving the educational needs of dental students and dental practitioners searching for updates on endodontic theories and techniques significantly restructured and completely updated the new edition maintains the ethos of the original facilitating ease of learning through pedagogical features such as annotated references core concepts and key literature it features a number of new chapters on topics ranging from outcomes of endodontic treatment to managing endodontic complications to dental trauma additionally all other chapters have been thoroughly revised and brought up to date to reflect contemporary knowledge and practice textbook of endodontology continues its important function of providing lucid scholarship and clear discussion of biological concepts and treatment principles in endodontics and as such will be an important update to its current readers and a valuable discovery to its new audience

pathways of the pulp has been a market leader and book of choice in dental education and practice for many editions the 8th edition has been completely revised and updated to bring you the latest techniques and materials developed for root canal work apical surgery the restoration of endodontically treated teeth and infection control provides thorough information on all requisite topics in endodontics pulp development structure and function pathology microbiology knowledge of instrumentation diagnosis of pulpal disorders skills important to cleaning and shaping obturation surgery and retreatment the challenge section at the end of the book features over 400 multiple choice questions many case based and illustrated to test readers knowledge of important endodontic principles and synthesize concepts that will improve diagnostic treatment planning and treatment skills four completely new chapters introduction the history of endodontics chapter 13 endodontic microbiology and treatment of infections chapter 17 endodontic periodontic interrelationships and chapter 26 digital technologies in endodontic practice new contributors have thoroughly revised chapters on case selection and treatment planning surgical endodontics cleaning and shaping the root canal system pulp development structure and function periapical pathology surgical endodontics bleaching nonvital and vital discolored teeth nonsurgical endodontic retreatment and endodontic pharmacology over 1000 new illustrations including six 2 page full color inserts chapter outlines presented at the beginning of each chapter c t scans of human teeth in chapter on tooth morphology latest on retreatment devices and techniques including new concepts and techniques for removing broken instruments and posts latest theories and methods for identifying extent of trauma and latest procedures for stabilizing patients current infection control guidelines and regulatory recommendations that apply to endodontic techniques latest devices for shaping root canals including applications of nickel titanium for hand and rotary files as well as other instruments outstanding chapter on nonodontogenic pain control challenge section contains over 400 multiple choice questions many case based and illustrated to help readers test their knowledge of important content

this book is a comprehensive guide to apical periodontitis in root filled teeth that covers not only all aspects of diagnosis and management but also epidemiology etiology consequences clinical decision making and prognosis there is a particular focus on the available surgical and nonsurgical methods of retreatment designed to restore healthy periapical conditions alternatives to retreatment are also explored including a conservative approach involving monitoring of the diseased tooth without intervention and the option of extraction and replacement with an implant or a fixed prosthesis the goal of root canal treatment is to save the natural tooth even when tissue breakdown has resulted in pathological conditions of the pulp and periradicular tissue however population studies reveal that complete healing is often absent in root filled teeth and apical periodontitis is frequently observed in conjunction with root fillings of poor technical quality under these circumstances questions arise as to how the apical periodontitis is impacting on the patient and how the condition should be tackled readers will find this well illustrated book to be of great value in directing clinical practice

complex endodontic problems that require further work on the part of the clinician can be time consuming and problematic this highly illustrated text from one of the authors of the very successful endodontics problem solving in clinical practice tackles these difficult aspects and guides the practitioner through the problems and procedures involved the only monograph on this specific problem area advanced endodontics will be of interest to endodontists general dental practitioners with a special interest in endodontics and postgraduates in restorative and endodontic specialties

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