Restoration Of The Endodontically Treated Tooth | e3cc405a599ae89c1aa6dc44f9bc53a


Coronal Seal in Endodontically Treated Teeth 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.

Pediatric Endodontics Arm of “Restoration of Endodontically treated teeth” is to preview the literature to present a summary of factors which may influence the choice of restorative procedure, current techniques and their success while restoring endodontically treated teeth. This is an invaluable resource contains comprehensive information for the clinician in preparation for practice and planning restorative treatment with detailed understanding of various restorative materials used for endodontically treated tooth. Update description on newer post systems has also been added.

The Guidebook to Molar Endodontics

Restoration of Endodontically Treated Teeth with Major Hard Tissue Loss 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 provides the reader 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 This book is a guide to proven, current clinical endodontic practice. It is designed, primarily, with the undergraduate reader 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. The book is divided into sections corresponding to the subject matter of the course. The aim is to provide a complete step by step guide to the practice of endodontics 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, accurate diagnosis, timely and appropriate treatment, and follow-up. Explores the interface between endodontic-peridental 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 pulp and periapical 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.

Color Atlas of Endodontics This book is a state of the art clinical guide to contemporary materials and techniques for the restoration of individual teeth and implants. It fully reflects the important developments in the field over the past 15 years, including in particular the shift away from wholesale use of crowns towards adhesive dentistry and less invasive extra-coronal restorations. The book opens by considering the principles and evidence base relating to the longevity of restorations of teeth and implants. Importantly, it explains how to ensure “a healthy start” and manage future risks. Material choice and aesthetic issues are then discussed, before all aspects of the planning and provision of extra-coronal restorations are covered. The book also includes the latest information on the prevention of root canal treatment failure. In line with modern dental education, each chapter begins with clinically relevant learning objectives, and helpful clinical tips are highlighted. The book will be of value for senior dental undergraduates, postgraduates, and practicing dentists and its scientific content will be of interest to dental academics.

Polymer Composites for Restoration of Endodontically Treated Teeth: Wiley-Blackwell’s “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 Prosthodontics grounds itself in core principles of this rehabilitative specialty and demonstrates their practical, every-day application through range of case presentations building from simple to complex and from common to rare. This unique approach supports the new trend in case-based and problem-based learning, thoroughly covering topics ranging from conventional complete denture prostheses to full mouth rehabilitation using both implant and tooth-supported prostheses. Each case begins with a short description of the initial patient presentation and the learning...
objectives and goals the subsequent case discussion will demonstrate. This is accompanied by relevant medical and dental histories, notes on extra-oral and soft tissue examination and a thorough list of clinical findings, all presented in bulleted from to facilitate ease of learning. Clinical decision making factors are then discussed in detail, well illustrated with multiple clinical photos showing progressive stages of treatment. Cases conclude with review questions and relevant literature citations supporting each answer. Ideal for practitioners and students alike, Clinical Cases in Prosthodontics is the ultimate resource linking evidence-based research to every-day application.

The Restoration of the Endodontically Treated Tooth: 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.

Contemporary Fixed Prosthodontics: 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.

Post and Core Restorations

Dental Trauma at a Glance: 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.

Restoration of Root Canal-Treated Teeth: This book provides dental professionals with a clear understanding of current clinical and scientific knowledge on the various aspects of pulp treatment for both primary and young permanent teeth. Diagnostic parameters are clearly presented along with step-by-step description of clinical procedures, including indirect and direct pulp treatments, pulpectomy, and pulpotomy. The rationale for the materials used in each technique and their individual merits and disadvantages are examined in detail. In the case of pulpotomy, all the materials used since the introduction of this treatment modality are discussed (e.g., formocresol, glutaraldehyde, ferric sulfate, and MTA) and the roles of sodium hypochlorite, electrofulguration, and laser therapy are elucidated. Special attention is devoted to pulpectomy and root canal treatment, with consideration of debriding and obturation techniques, rinsing solutions, and root-filling pastes. A further individual chapter is dedicated to restorations of teeth treated with the different types of pulp therapy. The various conservative treatment modalities are also presented, including specific treatments for immature nonvital permanent teeth. The concluding chapter looks to the future and the potential value of stem cells in pulp therapy.

Principles of Restoration of an Endodontically Treated Tooth: Coronal microleakage as a source of contamination has been cited as one of the major significant cause of endodontic failure, and great emphasis is placed on the quality of the definitive restoration after endodontic therapy. The coronal restoration should provide a perfect seal to prevent ingress into the access cavity and ultimately the root restoration. Dental amalgam has been used successfully for more than 170 years as a restorative material. This book gives an insight between conventional and bonded amalgam restorations in endodontically treated teeth. The book shall be helpful in convincing the fact that bonding amalgam not only has multipurpose advantages but more importantly provides a perfect coronal hermetic seal and therefore preventing failure of root canal therapy.

Restoration of Endodontically Treated Teeth: The choice of dental restoration depends on the amount of remaining tooth, which may influence long term survival and cost. For endodontically treated teeth, it is believed that coronal coverage can improve the clinical success of the restored teeth. An endodontic post is a partial prosthesis that is fixed inside the root canal. They are used to retain the coronal restoration when considerable tooth structure is missing. A core is a built-up structure that compensates for the lost tooth structure. It can either be part of the post material or a different material that is attached or bonded to the intra-canal post. Composite restoration material is widely accepted and used by clinicians for this purpose. In the perspective of publicly funded health insurance plans, it is important to base the coverage of dental crowns for vital and non-vital teeth on the best available evidence. It is of particular interest these plans to define evidence-based criteria for the coverage of crowns for vital teeth, and for the coverage of using posts/cores and crowns on endodontically treated teeth. In Canada, such evaluation is complicated by the fact that publicly funded health insurance plans do not have control over the care provider's choice of the crown type, and by the fact that there can be one fee code designated for all types of porcelain crowns, such as within the Ontario Ministry of Community and Social Services. The objective of this review is to evaluate the clinical and cost-effectiveness of dental crowns for vital teeth and the use of post-core crown restorations for endodontically treated teeth.

Endodontic Prognosis

Endodontic Treatment, Retreatment, and Surgery: The problems arising from root canals in the daily clinical practice of dentistry can often be difficult and time-consuming to solve. Here a team from one leading centre of dental excellence provides detailed and highly illustrated guidance to these difficult areas and how to manage the problems that they often pose.

Restoration of Endodontically Treated Teeth

Principles of Operative Dentistry: 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 prove to be a useful reference for practitioners to manage any endodontic case from first principles and will be of value for both dental practitioners and endodontic trainees/specialists.

Biomimetic Restorative Dentistry: Materials for the Direct Restoration of Teeth focuses on the important role teeth play in our lives and how biomimetic scientists are ensuring that new dental materials are functional and aesthetics. As restorative materials in the field are shifting away from traditional materials like metal, and towards more advanced materials, such as resins and ceramics, this book on the subject of modern materials for the direct repair of teeth provides readers with a comprehensive reference. The most pertinent modern dental materials and their properties and applications for the direct restoration of teeth are presented, along with case examples and guidance notes making this book an essential companion for materials scientists and clinicians. Provides comprehensive coverage of conventional and modern materials for direct restoration of teeth includes guidance notes and case examples to support dental clinicians in decision-making. Authored by a
scientist and a clinician, the book provides a balanced and complete treatise of the subject.

Clinical Cases in Prosthodontics
Optimizing the Restoration of Posterior Endodontically Treated Teeth Understanding as well as acquaintance pertinent to restorative dentistry is persistently undergoing an explosive revolution due to newer information relevant to various materials, techniques and technologies becoming increasingly accessible. Effective restoration of endodontically treated tooth requires not only excellent manual skills but also both understanding of disease process and properties of dental materials available for use. An effort has been made to include maximum possible studies and new concepts of restoration of endodontically treated teeth. This book is intended to teach the principles, practice and recent advances for restoration of endodontically treated teeth. Simple and lucid language has been used as much as possible. This book should be used as a basis for understanding the factors that lead to weakening of endodontically treated teeth, restorative requirements of such teeth and various methods and principles that should be applied while restoring such teeth. These features provide the reader with a textbook that is concise and easy to follow in an interactive manner.

Autotransplantation of Teeth
Extra-Coronal Restorations
Restoration of the Endodontically Treated Tooth 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.

Textbook of Endodontics This book describes the latest minimally invasive approaches in endodontics and explains the principles that guide them. The advances 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.

Fiber Posts and Endodontically Treated Teeth Emphasizing comprehensive treatment for quality patient care, this practical book integrates basic science with the clinical applications of fixed prosthodontics. Procedures are presented in a well-organized, systematic format that enhances comprehension.

Ability Of Different Posts To Reinforce Endodontically Treated Teeth 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. 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, decreased structural integrity and impaired neurosensory feedback 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 Use of Dental Crowns for Vital and Endodontically Treated Teeth Dental students are faced with an array of operative procedures, understanding and the development of competence in their use is demanding. This text aims to detail and justify the basic science with the clinical applications of fixed prosthodontics. Procedures are presented in a well-organized, systematic format that enhances comprehension.

Intra-Radicular Rehabilitation of Endodontically Treated Teeth
Restoration of the Endodontically Treated Tooth Written by a group of renowned experts three decades after the publication of the last comprehensive book on this topic, this much-needed book has a wealth of evidence-based information on all facets of the restoration of pulpless teeth. With a better understanding of the factors that can influence the prognosis of severely compromised teeth, the approach to treating these teeth has evolved, and this text offers a well-balanced, contemporary approach to treatment planning. Traditional principles and techniques are reviewed and reinforced, along with modern materials and methods, all with a firm foundation in the best available scientific evidence and with an emphasis on clinical studies. Many of the chapters provide comprehensive, step-by-step descriptions of technical procedures with accompanying illustrations to guide the reader through every stage of restoring pulpless teeth, including fabrication of various foundation restorations, cementation techniques, and methods of provisionalization. Preprosthetic adjunctive procedures, such as surgical crown lengthening, repair of perforations, and orthodontic measures, are also described and illustrated. For years to come, this text will remain a definitive reference for specialists involved in the restoration of pulpless teeth or engaged in planning treatment for structurally compromised teeth.

Materials for the Direct Restoration of Teeth 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 canals. The role of micro-CTs in operative procedures with the intention of reinforcing understanding and improving clinical skills. Direct and indirect restorations and endodontic procedures are addressed. Not only for the student, this book is also designed as a source of reference for all practitioners who carry out restorative dentistry and are faced with the introduction of new materials and techniques. Referral to this text and evidence-based practice will assist the clinician in the appropriate selection of new approaches to the delivery of modern day care.

Adhesive Restoration of Endodontically Treated Teeth
Harty's Endodontics in Clinical Practice E-Book “Applies the biomimetic principle to bonded restorations using composite resins and ceramics, describing the broad spectrum of indications and detailing the treatment planning, diagnostic approach, step-by-step treatment, and maintenance for each” --

Restoration of the Endodontically Treated Tooth

Contemporary Restoration of Endodontically Treated Teeth This comprehensive resource presents all aspects of endodontics, both surgical and nonsurgical. The very latest materials and methods used in providing endodontic treatment are explained thoroughly and effectively -- and are highlighted visually through the generous use of illustrations, many in full-color. Key topics include diagnosis, access, working length determination, instrumentation, obturation, retreatment of failed nonsurgical cases, flap design, root-end resection, crypt management, root end filling, post and core techniques, and core placement. Case examples with full-color clinical photos Detailed discussion of diagnosis and treatment planning Comprehensive coverage of restoration with case examples Discussion of traumatic injury with case examples of many types of injury Chapter devoted to legal considerations Concise, orderly approach to procedures Coverage of state-of-the-art techniques and materials such as the newer methods of digital radiography and electronic apex locators, and nickel-titanium files Full-color format Contributions from world renowned authorities

Fundamentals of Fixed Prosthodontics

Minimally Invasive Approaches in Endodontic Practice 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.

The Kurer Anchor System When performed under the proper indications, autotransplantation of teeth is a predictable technique that usually results in a good prognosis. This clinical atlas details the various procedures involved in autotransplantation. Readers are introduced to concepts such as wound healing associated with autotransplantation, clinical indications, surgical procedures, and prognoses for various situations, and they can see the outcome of specific cases over extended periods of time. The book should be a useful resource for oral surgeons, orthodontists, and pedodontists wanting to integrate this procedure into their practice.

The Principles of Endodontics

Restoration of Endodontically Treated Teeth Dental Trauma at a Glance The market-leading at a Glance series is popular among students and newly qualified practitioners for its concise and simple approach and excellent illustrations. Each bite-sized chapter is covered in a double-page spread with clear, easy-to-follow diagrams, supported by succinct explanatory text. Covering a wide range of topics, books in the at a Glance series are ideal as introductory texts for teaching, learning and revision and are useful throughout university and beyond. Everything you need to know about Dental Trauma ... at a Glance! Written in a short and concise manner, Dental Trauma at a Glance is a practical reference that contains essential information on the safe and effective clinical management of acute adult dental trauma injuries. The book addresses the numerous types of adult dental injuries and contains guidance on how the correct identification and treatment of these injuries can be time sensitive. Filled with helpful illustrations and photographs, the text is formatted in a step-by-step manner for the reader to arrive at the correct diagnosis and the most up-to-date management for safe and optimum patient care. Provides the most contemporary must-have information for the clinical management of acute adult dental trauma. Its format is quick and easy to use. Offers a highly illustrated text with quality clinical photographs to aid with learning and revision. Provides an understanding of traumatic adult dental injuries, their healing and an insight into their longer-term sequelae. A new addition to the popular at a Glance series, Dental Trauma at a Glance is an indispensable hands-on guide for dental students and general dental practitioners. Accompanied by a companion website at www.wiley.com/go/alani/dental_trauma featuring multiple-choice questions to aid learning. All figures from the book as downloadable PowerPoint slides.

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