



Edition: 1st Edition 2025

pages: 526 Images: 1070

Cover: Hardcover; 21 x 28 cm ISBN: 978-1-78698-150-9

Stock No.: 22561

Expected Publication: October 2025

Quintessenz Verlags-GmbH

- Ifenpfad 2-4 12107 Berlin Germany
- **3** +49 (0) 30 / 76180-5
- +49 (0) 30 / 76180-680
- https://www.quintessence-publishing.com/deu/de

Book information

Editor: Pontius, Oliver Johannes

Title: Treatment Concepts for Successful Endodontic Therapy

Short text:

This comprehensive guide, edited by Dr Oliver Pontius and co-authored by leading experts in the field, has been designed for dental practitioners and postgraduate students. It provides a comprehensive and up-to-date overview of endodontic knowledge and techniques, offering a valuable resource for professionals in the field. From understanding biologic processes and diagnosing pulpal pathologies to mastering advanced procedures such as rotary instrumentation, cone beam computed tomography, and microsurgical endodontics, every chapter is enhanced with clear visuals, clinical protocols, and cutting-edge research. This textbook provides the tools you need for predictable and successful outcomes in modern endodontics. It offers guidance on a wide range of procedures, including the treatment of vital pulps, management of complex retreatments, and restoration of endodontically treated teeth.

Contents

Part A. The Science of Endodontics

Chapter 01. Keeping the Pulp Alive with Pulp Capping and Pulp Chamber Pulpotomy

Chapter 02. Microbiology of Endodontic Infections

Chapter 03. Understanding and Managing Apical Periodontitis Chapter 04. Cell-based and Cell-free Regenerative Endodontics

Part B. Diagnosis

Chapter 05. Endodontic Diagnosis

Chapter 06. Radiology of Apical Periodontitis, Differential Diagnosis of

Nonodontogenic Cystic Lesions

Chapter 07. Differential Diagnosis of Orofacial Pain

Part C. Advances in Materials and Technology

Chapter 08. NiTi Instruments in Endodontics

Chapter 09. Calcium Silicate-based Hydraulic Cements in Endodontics

Part D. The Practice of Endodontics

Chapter 10. The Aseptic Working Field

Chapter 11. Endodontic Emergencies

Chapter 12. Cleaning and Shaping Root Canal Systems

Chapter 13. Irrigation and Disinfection of the Root Canal System

Chapter 14. Lasers for Root Canal Cleaning and Disinfection

Chapter 15. Philosophy of Filling Roots

Chapter 16. Carrier-based Obturation

Chapter 17. Endodontic Retreatment

- (a) Decision making in Endodontic Retreatment
- (b) Endodontic Retreatment Procedures
- (c) Predictable and Minimally Invasive Instrument Removal

Chapter 18. Microsurgical Endodontics

Chapter 19. Intentional Replantation

Chapter 20. Predictable Autotransplantation

Chapter 21. Traumatic Dental Injuries of Permanent Teeth

Chapter 22. Resorption of Permanent Teeth

Part E. Prognosis

Chapter 23. Factors Impacting the Outcomes of Nonsurgical Root Canal Treatments

Part F. Interdisciplinary Endodontics

Chapter 24. Maxillary Sinus Implications in Endodontics

Chapter 25. Endodontic-Periodontal Interaction

Chapter 26. The Endo-Restorative Interface

Chapter 27. Endodontics or Implants - Decisive Criteria and Guidelines for Single

Tooth Restorations and Full-arch Reconstructions

Chapter 28. Endodontic Medicine

Categories: Endodontics