



Edition: 1st Edition 2025  
pages: 500  
Images: 1070  
Cover: Hardcover; 21 x 28 cm  
ISBN: 978-1-78698-150-9  
Expected Publication: June 2025

**Quintessence Publishing Company, Inc.**

 411 North Raddant Road  
Batavia  
Illinois IL 60510  
United States of America

 +1 (0)630 / 736-3600

 +1 (0)630 / 736-3633

 [contact@quintbook.com](mailto:contact@quintbook.com)

 <http://nginx/usa/en>

## Book information

**Authors:** Oliver Johannes Pontius

**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](#)