



Edition: 1st Edition 2011  
pages: 224  
Images: 521  
Cover: Hardcover  
ISBN: 978-0-86715-494-8  
Published: January 2011

**Quintessence Publishing Company, Ltd.**

 Grafton Road  
KT3 3AB New Malden, Surrey  
United Kingdom

 +44 (0)20 8949 6087

 +44 (0)20 8336 1484

 [info@quintpub.co.uk](mailto:info@quintpub.co.uk)

 <https://www.quintessence-publishing.com/gbr/en>

## Book information

**Authors:** Giovanni Olivi / Fred S. Margolis / Maria Daniela Genovese

**Title:** Pediatric Laser Dentistry

**Subtitle:** A User's Guide

**Short text:**

This comprehensive text, the first to focus on laser applications in pediatric dentistry, reviews the fundamental principles of laser energy and demonstrates the essential therapeutic steps of laser radiation in conservative pediatric dentistry. Detailed explanations of the unique interactions of laser radiation with dental tissues—with a focus on the differences specific to primary and young permanent teeth—help clinicians take advantage of the many inherent benefits of laser energy, such as selective removal of carious tissue, preservation of healthy mineral structure, disinfection of prepared surfaces, excellent hemostasis, and improved patient comfort and compliance. The predictable clinical protocols for hard and soft tissue applications are detailed step by step with explanations on technique and suggested laser parameters, and the outcomes are illustrated in multiple case studies. In addition, the text is rounded out with presentations on innovative therapies involved in laser caries detection, laser irradiation for caries prevention, enamel and dentin laser conditioning, laser radiation for root canal debriding and cleansing, and low-level laser therapy as well as an appendix on laser safety and a glossary of laser terms. This practical guide will inspire pediatric dentists who are new to the laser as well as those experienced in providing laser therapy to adults.

**Contents**

Part 1. Basic Science of Laser Dentistry

- Laser Physics
- Lasers in Pediatric Dentistry

Part 2. Operative Pediatric Dentistry

- Clinical Examination
- Treatment Considerations

Part 3. Hard Tissue Laser Applications

- Laser-Hard Tissue Interaction
- Preventive Dentistry
- Restorative Dentistry
- Endodontics

Part 4. Soft Tissue Laser Applications

- Laser-Soft Tissue Interaction
- Oral Pathology
- Orthodontics
- Periodontics and Mucogingival Surgery

Part 5. Laser-Assisted Applications

- Dental Trauma
- Low-Level Laser Therapy

**Categories:** Pediatric Dentistry