

**PART 1****Fundamentals of Pediatric Dentistry 1****CHAPTER 1****The Practical Importance of Pediatric Dentistry 2**

PAUL S. CASAMASSIMO

**CHAPTER 2****Differential Diagnosis of Oral Lesions and Developmental Anomalies 11**

CATHERINE M. FLAITZ

**CHAPTER 3****Anomalies of the Developing Dentition 54**

CLIFTON O. DUMMETT, JR., SARAT THIKKURISSY

**CHAPTER 4****Oral and Dental Care of Local and Systemic Diseases 65**

MARCIO A. DA FONSECA

**CHAPTER 5****Topics in Pediatric Physiology 81**

DIANNE M. McBRIEN

**CHAPTER 6****Nonpharmacologic Issues in Pain Perception and Control 88**

STEPHEN WILSON

**CHAPTER 7****Pain Perception Control 98**

STEPHEN WILSON, STEVEN I. GANZBERG

**CHAPTER 8****Pain Reaction Control: Sedation 105**

STEPHEN WILSON, STEVEN I. GANZBERG

**CHAPTER 9****Antimicrobials in Pediatric Dentistry 118**

WENDI SLAUGHTER

**CHAPTER 10****Medical Emergencies 126**

STEVEN I. GANZBERG

**CHAPTER 11****Dental Public Health Issues in Pediatric Dentistry 139**

JONATHAN D. SHENKIN, HOMA AMINI

**PART 2****Conception to Age Three 149****CHAPTER 12****The Dynamics of Change 150**

ARTHUR J. NOWAK

**CHAPTER 13****Examination, Diagnosis, and Treatment Planning of the Infant and Toddler 184**

KARIN WEBER-GASPARONI

**CHAPTER 14****Prevention of Dental Disease 200**

TAD R. MABRY, ARTHUR J. NOWAK

**CHAPTER 15****Introduction to Dental Trauma:****Managing Traumatic Injuries in the Primary Dentition 213**

GIDEON HOLAN, DENNIS J. McTIGUE

**CHAPTER 16****Congenital Genetic Disorders and Syndromes 231**

REBECCA L. SLAYTON

**PART 3****The Primary Dentition Years: Three to Six Years 247****CHAPTER 17****The Dynamics of Change 248**

PAUL S. CASAMASSIMO, STEVEN M. ADAIR

**CHAPTER 18****Examination, Diagnosis, and Treatment Planning 258**

PAUL S. CASAMASSIMO, JOHN R. CHRISTENSEN, HENRY W. FIELDS, JR.

**CHAPTER 19****Prevention of Dental Disease 279**

ARTHUR J. NOWAK, TAD R. MABRY

**CHAPTER 20****Dental Materials 291**

KEVIN JAMES DONLY

**CHAPTER 21**

Restorative Dentistry for the Primary Dentition 304  
WILLIAM F. WAGGONER

**CHAPTER 22**

Pulp Therapy for the Primary Dentition 333  
ANNA BLINDER FUKS, ARI KUPIETZKI,  
MARCIO GUELMANN

**CHAPTER 23**

Behavior Guidance of the Pediatric Dental Patient 352  
JANICE ALISA TOWNSEND

**CHAPTER 24**

Periodontal Problems in Children and Adolescents 371  
ANN L. GRIFFEN, DIMITRIS N. TATAKIS

**CHAPTER 25**

Space Maintenance in the Primary Dentition 379  
JOHN R. CHRISTENSEN, HENRY W. FIELDS, JR.

**CHAPTER 26**

Oral Habits 385  
JOHN R. CHRISTENSEN, HENRY W. FIELDS, JR.,  
STEVEN M. ADAIR

**CHAPTER 27**

Orthodontic Treatment in the Primary Dentition 393  
JOHN R. CHRISTENSEN, HENRY W. FIELDS, JR.

**CHAPTER 28**

Local Anesthesia and Oral Surgery in Children 398  
STEPHEN WILSON

**PART 4**

The Transitional Years: Six to Twelve Years 411

**CHAPTER 29**

The Dynamics of Change 412  
HENRY W. FIELDS, JR., STEVEN M. ADAIR

**CHAPTER 30**

Examination, Diagnosis, and Treatment Planning 423  
PAUL S. CASAMASSIMO, JOHN R. CHRISTENSEN,  
HENRY W. FIELDS, JR.

**CHAPTER 31**

Prevention of Dental Disease 460  
ARTHUR J. NOWAK, TAD R. MABRY

**CHAPTER 32**

Pit and Fissure Sealants: Scientific and Clinical Rationale 467  
MARTHA H. WELLS

**CHAPTER 33**

Pulp Therapy for the Young Permanent Dentition 490  
ANNA BLINDER FUKS, ILANA HELING, EYAL NUNI

**CHAPTER 34**

Managing Traumatic Injuries in the Young Permanent Dentition 503  
DENNIS J. McTIGUE

**CHAPTER 35**

Treatment Planning and Management of Orthodontic Problems 518  
JOHN R. CHRISTENSEN, HENRY W. FIELDS, JR.

**PART 5**

Adolescence 557

**CHAPTER 36**

The Dynamics of Change 558  
DEBORAH STUDEN-PAVLOVICH

**CHAPTER 37**

Examination, Diagnosis, and Treatment Planning for General and Orthodontic Problems 566  
PAUL S. CASAMASSIMO, JOHN R. CHRISTENSEN,  
HENRY W. FIELDS, JR., STEVEN I. GANZBERG

**CHAPTER 38**

Prevention of Dental Disease 586  
TAD R. MABRY, ARTHUR J. NOWAK, HENRY W. FIELDS, JR.

**CHAPTER 39**

Aesthetic Restorative Dentistry for the Adolescent 597  
KAAREN G. VARGAS, MARCOS A. VARGAS,  
STEPHEN F. ROSENSTIEL

**CHAPTER 40**

Sports Dentistry and Mouth Protection 609  
DENNIS N. RANALLI

Appendix 618