

# Pain Management in Infants, Children, Adolescents, and Individuals with Special Health Care Needs

## Revised

2022

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### Abstract

*This statement provides dentists and stakeholders with current best practices for pediatric pain management. Infants, children, adolescents, and individuals with special health care needs may experience pain resulting from dentofacial injury, infection, and dental procedures. Dental pain is an inflammatory condition that can be categorized as somatic (i.e., periodontal, alveolar, mucosal) or visceral (i.e., pulp). Dental professionals should consider pain assessment for all patients. Inadequate pain management may lead to significant physical and psychological consequences for patients. Perioperative pain management approaches include pre-emptive pain management (e.g., anesthetics), use of local anesthesia during general anesthesia for postoperative pain control, nonpharmacological analgesic interventions (e.g., providing a calm environment, emotional support), distraction and imagery (e.g., counting, video games), and pharmacological pain control agents including non-opioid analgesics (e.g., nonsteroidal anti-inflammatory drugs, acetaminophen) and opioid analgesics. Acetaminophen and nonsteroidal anti-inflammatory medications are first-line pharmacologic therapies for pain management. Use of opioids for pediatric dental patients should be rare, and steps to mitigate opioid misuse are discussed.*

*This document was developed through a collaborative effort of the American Academy of Pediatric Dentistry Councils on Clinical Affairs and Scientific Affairs to offer updated information and guidance on pain management in infants, children, adolescents, and individuals with special health care needs.*

**KEYWORDS:** PAIN MANAGEMENT; ACUTE PAIN; CHRONIC PAIN; PAIN, POSTOPERATIVE; FACIAL PAIN; TOOTHACHE

### Purpose

The American Academy of Pediatric Dentistry (AAPD) recognizes that infants, children, adolescents, and individuals with special health care needs can and do experience pain due to dental/orofacial injury, infection, and dental procedures, and that inadequate pain management may have significant physical and psychological consequences for the patient. Appreciation of pediatric pain can help practitioners develop clinical approaches to prevent or substantially relieve dental pain. When pharmacological intervention is necessary to manage pain, the practitioner must understand the consequences, morbidities, and toxicities associated with the use of specific therapeutic agents. These recommendations are intended to provide dental professionals and other stakeholders with current best practices for pain management in pediatric dentistry.

### Methods

This document was developed by the Council on Clinical Affairs and adopted in 2018.<sup>1</sup> It is based on a review of current dental and medical literature pertaining to pain management in pediatric dental patients. Review of existing federal and professional pain management guidelines and consensus statements were used to assist with this document. An electronic search was conducted in the PubMed®/MEDLINE database using the terms: dental pain management, pediatric pain assessment, pre-emptive analgesia, paracetamol, pediatric and

acetaminophen, adolescent and acetaminophen, pediatric and nonsteroidal anti-inflammatory drugs (NSAIDs), adolescent and NSAIDs, pediatric and opioids, adolescent and opioids, opioid risk, adolescent orofacial pain, pediatric and adolescent chronic pain, nonpharmacologic pain management; fields: all; limits: within the last 10 years, humans, English, systematic review, and clinical trials. There were 3,698 articles that met these criteria. Papers for review were chosen from this list and from references within selected articles. When data did not appear sufficient or were inconclusive, recommendations were based upon expert and/or consensus opinion by experienced researchers and clinicians.

### Background

Pain is defined by the International Association of the Study of Pain as "an unpleasant sensory and emotional experience associated with, or resembling that associated with, actual or

#### ABBREVIATIONS

AAP: American Academy of Pediatrics. AAPD: American Academy of Pediatric Dentistry. APAP: Acetyl-para-aminophenol. CDC: Centers for Disease Control and Prevention. CNS: Central nervous system. COX: Cyclooxygenase. FDA: U.S. Food and Drug Administration. IV: Intravenous. NSAIDs: Nonsteroidal anti-inflammatory drugs. U.S.: United States. WHO: World Health Organization.

# Pain In Infants Children And Adolescents

**Vicky R. Bowden, Cindy Smith  
Greenberg**



## **Pain In Infants Children And Adolescents:**

*Pain in Infants, Children, and Adolescents* Neil L. Schechter, Charles B. Berde, Myron Yaster, 2003 This Second Edition is a significant revision of the leading text and clinical reference on pediatric pain Written by an international group of experts from all relevant disciplines this new edition is a vital reference for all pain practitioners and for nurses psychologists PTs anesthesiologists and pediatricians dealing with acute and chronic pediatric pain This edition includes new and expanded information on NSAIDs opioids and regional anesthesia New chapters cover sedation pain in the ICU multidisciplinary pain services palliative care and the long term consequences of pain User friendly new features include many more illustrations of techniques

*Pain in Infants, Children, and Adolescents* Neil L. Schechter, Charles B. Berde, Myron Yaster, 1993

*Opioid Therapy in Infants, Children, and Adolescents* Ravi D. Shah, Santhanam Suresh, 2020-02-21 Opioid analgesics are among the most effective medications for pain management but are associated with serious and increasing public health problems including abuse addiction and death from overdose Currently there is an opioid epidemic in the United States with the rate of prescription opioid related overdose deaths quadrupling over the last 15 years Pediatric patients are particularly vulnerable to the devastating consequences of opioid misuse Adolescents who are prescribed opioids are at a higher risk for abusing illicit drugs later in life Clinicians managing pediatric pain must account for such issues while still delivering effective analgesia to young patients who suffer from both acute and chronic pain Opioid Therapy in Children and Adolescents is designed to explore the unique aspects of opioid therapy in pediatric patients An introductory framework provides historical context and describes the epidemiology of the opioid crisis with focus on pediatric implications Subsequent chapters focus on pediatric opioid pharmacology safe opioid prescribing practices and non opioid alternatives to managing pediatric pain states including multimodal analgesic strategies interdisciplinary approaches and complementary medicine Mitigation strategies against pediatric opioid diversion and misuse are addressed to help clinicians develop practice changes that protect pediatric patients from opioid related morbidity and mortality Clinical case examples are also utilized throughout the text to provide grounding for each chapter and a context within which to examine pertinent issues This first of its kind book provides a comprehensive approach that will guide clinicians to appropriately and safely prescribe opioid analgesics to pediatric patients suffering from pain It is an invaluable resource for pediatricians family practitioners anesthesiologists pediatric oncologists and other clinicians who manage pediatric pain

*Pain in Infants*, 2003

*Acute Pain Management in Infants, Children, and Adolescents*, 1992

**Pediatric Anesthesia** Bruno Bissonnette, 2014-05-14 No longer merely a subspecialty pediatric anesthesia is now a professional entity in its own right as is amply demonstrated in this comprehensive addition to the medical and surgical literature Pediatric Anesthesia Basic Principles State of the Art Future comprises the contributions of 150 experts in the field from all over the world providing this book with a truly global perspective This textbook will help anesthesiologists already interested in pediatric anesthesia to the knowledge and skills inherent to the safe practice of

anesthesia for infants and children      **Oxford Textbook of Palliative Care for Children** Ann Goldman, Richard Hain, Stephen Liben, 2012-05-24 Comprehensive in scope and definitive in authority this second edition has been thoroughly updated to cover new practices current epidemiological data and the evolving models that support the delivery of palliative medicine to children This book is an essential resource for anyone who works with children worldwide      **Nursing Care of the Pediatric Surgical Patient** Nancy Tkacz Browne, 2007 The book packages all aspects of the pediatric surgical nurse's job into one comprehensive reference including pre and post operative care minimally invasive surgery innovative therapies fetal surgery pediatric solid organ transplantation and more It offers up to date information on pediatric surgical nursing and includes many critical pathways and research topics It is a must have resource for all healthcare providers involved in the care of the general pediatric surgical patient      **Family-Based Treatment in Child and Adolescent Psychiatry, An Issue of Child and Adolescent Psychiatric Clinics of North America** Michelle L. Rickerby, 2015-10-21 This publication in Child any professional doing treatments involving families Primary Care doctors Mental Health Nurse Practitioners Social Workers and Psychology Counselors Features include Clinical Case Vignettes and Evidence based summaries Topics include In the section covering The Big Picture Historical Overview of Family Interventions in Child Psychiatry Family Focused Evaluation and Intervention in Child Psychiatry Overview of the Evidence Base for Family Interventions in Child Psychiatry and Family Based Integrated Care in Child Psychiatry Training and Implementation In the section focusing on Illness Specific Family Based Interventions are topics on Family Based Treatment of Obsessive Compulsive Disorder Family Based Intervention for Early Childhood Disorders Family Based Interventions for Childhood Trauma Family Based Treatment of Eating Disorders Family Beliefs and Interventions in Pediatric Pain Management Multisystemic Treatment for Externalizing Disorders Family Interventions for Mood and Psychotic Disorders and Family Intervention in Adolescent Substance Abuse Finally there is discussion of Network Interventions in Pervasive Developmental Disorders      **Moss & Adams' Heart Disease in Infants, Children, and Adolescents** Hugh D. Allen, David J. Driscoll, Robert E. Shaddy, Timothy F. Feltes, 2013-05-30 This 8th Edition of Moss and Adams Heart Disease in Infants Children and Adolescents Including the Fetus and Young Adult provides updated and useful information from leading experts in pediatric cardiology Added chapters and a companion web site that includes the full text with bonus question and answer sections make this Moss and Adams edition a valuable resource for those who care for infants children adolescents young adults and fetuses with heart disease Features Access to online questions similar to those on the pediatric cardiology board examination to prepare you for certification or recertification Leading international experts provide state of the art diagnostic and interventional techniques to keep you abreast of the latest advances in treatment of young patients Chapters on quality of life quality and safety pharmacology and research design add to this well respected text      *Moss & Adams' Heart Disease in Infants, Children, and Adolescents, Including the Fetus and Young Adult* Hugh D. Allen, 2016-02-02 The 9th edition of the gold standard in pediatric cardiology offers up to

date comprehensive coverage of this challenging and rapidly changing field New chapters based on reader requests two new associate editors new contributing authors and an enhanced digital version of the text make Moss and Adams Heart Disease in Infants Children and Adolescents the reference you ll turn to when caring for patients From cover to cover this award winning two volume resource provides the authoritative state of the art information you need when caring for young patients with heart disease New reader requested chapters cover Development of Myocardial Structure and Function Global Challenge of Heart Disease Impact of Congenital Heart Disease on Other Organ Systems Non Compaction Cardiomyopathy Beyond the Cardiac Device and Transition to Adult Care All chapters have been updated and revised including vital new information on genetics and embryo development Two new associate editors Drs Daniel J Penny and Frank Cetta offer fresh perspectives in their areas of expertise Enhanced digital access includes the full text bonus question and answer sections similar to those on the pediatric cardiology board examination videos of echoes angiograms aortic arch anomalies open heart operations and more and phonocardiograms with accompanying audio of various heart sounds and murmurs

*The Kelalis-King-Belman Textbook of Clinical Pediatric Urology*, 2006-12-21 The most established internationally acclaimed textbook on the subject of pediatric urology this completely updated fifth edition is published on the thirtieth anniversary of its original launch Totally revised and with all new editors who are at the forefront of clinical and surgical research in pediatric urology The Kelalis King Belman Textbo

*Cranial Osteopathy for Infants, Children and Adolescents* Nicette Sergueef, 2007-10-12 This is a practical how to handbook for osteopathic students and practitioners The approach is based upon cranial osteopathic principles and provides the application of indirect functional osteopathic manipulative methods for treating infants and children Fundamental information about the diagnosis of somatic dysfunction and application of treatment is presented in a clear straightforward style and illustrated by extensive line drawings and photographs A practical how to manual for students and practitioners of osteopathy Line drawings and photographs clearly illustrate the application of the manipulative methods of treatment A practical how to manual for students and practitioners of osteopathy Focus is specifically treating infants and children through the cranial approach Line drawings and photographs clearly illustrate the application of the manipulative methods of treatment

*Manual of Pediatric Cardiac Care* Talât Mesud Yelbuz, Mohammed Abdullah Bin-Moallim, Wael Jasim Mohamed Husain, Yousif Saleh Alakeel, Mohamed Salim Kabbani, Abdullah Ali Alghamdi, 2024-07-29 This two volume manual covers the most relevant protocols in pediatric cardiac care to serve as a practical guide that matches and reflects the high level of accumulated knowledge and expertise in this clinical field It includes 179 chapters and offers comprehensive precise and up to date practical tips with specific care protocols to provide the most efficient strategies for high quality care in patients with congenital heart disease CHD This book simplifies learning with many tables flowcharts graphs and algorithms for easy access and fast action Volume II covers many vital sections such as ethical considerations in pediatric cardiac patients pediatric cardiac surgery pediatric cardiac intensive care unit PCICU

guidelines clinical pharmacy guidelines adults with congenital heart disease appendix with normal values reference tables graphs scores and various calculated indexes used and needed for proper pediatric cardiac care This manual is a must have resource for pediatricians neonatologists clinical pharmacy specialists pediatric intensive care physicians pediatric cardiologists pediatric cardiac intensive care physicians pediatric cardiac surgeons and or surgeons interested in pediatric cardiac surgery

**Children and Their Families** Vicky R. Bowden, Cindy Smith Greenberg, 2010 Children and Their Families The Continuum of Care provides a unique interdisciplinary perspective that underscores the nurse's role in planning coordinating and working with all members of a pediatric health care team It shows students how to make critical judgments and assessments to manage the care of children in a variety of community settings including homes schools and medical centers From infancy through adolescence this text thoroughly covers the health promotion surveillance and maintenance needs of children In this edition threaded case studies follow a community of pediatric clients and continue throughout the chapter to show the interrelated dynamics of pediatric nursing care A companion Website includes journal articles NCLEX style chapter review questions a Spanish English audio glossary Watch and Learn videos a fluids and electrolytes tutorial and much more

**BOPOD - Wong's Nursing Care of Infants and Children** Marilyn J. Hockenberry, David Wilson, 2014-01-30 The most trusted authority in pediatric nursing Wong's Nursing Care of Infants and Children provides unmatched comprehensive coverage of pediatric growth development and conditions Its unique age and stage approach covers child development and health promotion as well as specific health problems organized by age groups and body systems Leading pediatric experts Dr Marilyn Hockenberry and David Wilson provide an evidence based clinical perspective based on nearly 30 years of hands on experience Easy to read and extensively illustrated this edition focuses on patient centered outcomes and includes updates on topics such as the late preterm infant immunizations the H1N1 virus and childhood obesity A clear straightforward writing style makes content easy to understand Unique Evidence Based Practice boxes help you apply both research and critical thought processes to support and guide the outcomes of nursing care Unique Atraumatic Care boxes contain techniques for care that minimize pain discomfort or stress Unique Critical Thinking exercises help you test and develop your own analytical skills A unique focus on family content emphasizes the role and influence of the family in health and illness with a separate chapter discussions throughout the text and family centered care boxes Nursing Care Guidelines provide clear step by step detailed instructions on performing specific skills or procedures Unique Emergency Treatment boxes serve as a quick reference for critical situations Unique Cultural Awareness boxes highlight ways in which variations in beliefs and practices affect nursing care for children A developmental approach identifies each stage of a child's growth Health promotion chapters emphasize principles of wellness and injury prevention for each age group Student friendly features include chapter outlines learning objectives key points references and related topics and electronic resources to help you study and review important content A community focus helps you care for children outside the clinical setting

Nursing Care Plans include models for planning patient care with nursing diagnoses patient family goals nursing interventions rationales expected outcomes and NIC and NOC guidelines Nursing Tips include helpful hints and practical clinical information and Nursing Alerts provide critical information that must be considered in providing care     **Core Curriculum for Pain Management Nursing - E-Book** ASPMN,2024-05-15 Prepare for the nurse s role in assessing and managing pain Core Curriculum for Pain Management Nursing 4th Edition uses an easy to read outline format to cover the entire scope of pain management Written by the American Society of Pain Management Nurses ASPMN the leading nursing organization in pain management this review begins with foundational concepts and follows with guidelines and tools for effective pain assessment Coverage of evidence based pain management strategies and therapies is included for all patient types and ages Updated to reflect current best practices in nursing this book provides an excellent review for the ASPMN pain management certification exam and the RN BC credentialing exam Content written by ASPMN ensures that information includes the latest in education research standards and practice as well as a thorough review for the ASPMN certification exam and the RN BC credentialing exam Both pharmacologic and non pharmacologic methods of pain management are described Comprehensive coverage includes adult pediatric and geriatric patients along with key subsets of patients such as those who have concomitant addiction those who have cancer and those who are under sedation for a procedure Wide ranging content includes disparities in pain management the roles of the clinical nurse specialist as well as the nurse practitioner theories of pain management the use of research gender differences in how men and women respond to pain and analgesia and the effect of depression on pain perception and management Strong nursing focus provides guidelines for the nurse s role in pain management and in improving the quality of patient care Easy to read outline format makes this book a quick and accessible reference NEW Updated content includes the latest changes in clinical practice including pharmacologic and non pharmacologic pain interventions integrative and complementary therapies and the current ANA scope and standards of practice NEW Revised chapters include Mental Health Disorders and Pain and Managing Pain in the Context of Substance Use Disorder NEW Cannabis Use in Pain Management chapter is added to this edition NEW Reorganized content better highlights the complexity of assessment and management of pain NEW two color design illustrations and summary tables are added throughout the book making difficult concepts easier to understand and remember     *A Textbook of Children's and Young People's Nursing E-Book* Edward Alan Glasper,James Richardson,2010-05-19 This popular textbook is aimed at children s nurses in a wide range of practice settings including primary ambulatory and tertiary care Covering the full age and specialty spectrum this text brings together chapters from among the best known children s nurses in the UK It describes family centred child healthcare drawing upon practice throughout the UK and further afield This innovative text provides up to date information on a wide range of topics Each chapter offers readers additional material on Evolve Full Microsoft PowerPoint presentations that facilitate interactive

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**Pediatric Nursing Procedures** Vicky R. Bowden, Cindy Smith Greenberg, 2008

Thoroughly updated for its Second Edition, this pediatric procedures book provides the student and professional nurse with a quick reference to essential nursing procedures and standards for practice. Its format is easily adaptable to organizational policy and procedure manuals. Chapters are alphabetically presented by procedure and contain clinical guidelines for practice. Tables and charts summarize key diagnostic information or parameters.

**Regional Anesthesia in Infants, Children, and Adolescents** Bernard J. Dalens, 1995



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## **Table of Contents Pain In Infants Children And Adolescents**

1. Understanding the eBook Pain In Infants Children And Adolescents
  - The Rise of Digital Reading Pain In Infants Children And Adolescents
  - Advantages of eBooks Over Traditional Books
2. Identifying Pain In Infants Children And Adolescents
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Pain In Infants Children And Adolescents
  - User-Friendly Interface
4. Exploring eBook Recommendations from Pain In Infants Children And Adolescents
  - Personalized Recommendations
  - Pain In Infants Children And Adolescents User Reviews and Ratings
  - Pain In Infants Children And Adolescents and Bestseller Lists
5. Accessing Pain In Infants Children And Adolescents Free and Paid eBooks
  - Pain In Infants Children And Adolescents Public Domain eBooks
  - Pain In Infants Children And Adolescents eBook Subscription Services
  - Pain In Infants Children And Adolescents Budget-Friendly Options

6. Navigating Pain In Infants Children And Adolescents eBook Formats
  - ePub, PDF, MOBI, and More
  - Pain In Infants Children And Adolescents Compatibility with Devices
  - Pain In Infants Children And Adolescents Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Pain In Infants Children And Adolescents
  - Highlighting and Note-Taking Pain In Infants Children And Adolescents
  - Interactive Elements Pain In Infants Children And Adolescents
8. Staying Engaged with Pain In Infants Children And Adolescents
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Pain In Infants Children And Adolescents
9. Balancing eBooks and Physical Books Pain In Infants Children And Adolescents
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Pain In Infants Children And Adolescents
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Pain In Infants Children And Adolescents
  - Setting Reading Goals Pain In Infants Children And Adolescents
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pain In Infants Children And Adolescents
  - Fact-Checking eBook Content of Pain In Infants Children And Adolescents
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- 
- Interactive and Gamified eBooks

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