

# Society for Pediatric Sedation Visual Series

## Management of Apnea in Procedural Sedation



### How do we define apnea?

The cessation of breathing for more than 15 seconds OR cessation of breathing for any duration if associated with bradycardia (HR < 80 BPM) and/or desaturations (SpO<sub>2</sub> < 90%).

### Risk factors (before, during, and after sedation):

#### Prematurity

- Anemia
- Bronchopulmonary Dysplasia / Chronic Lung Disease
- History of Respiratory Distress or Previous Apnea
- Oral Mobility or Immaturity

#### Airway Obstruction

#### APNEA

#### Genetic Syndromes / Craniofacial Anomalies with sleep-disordered breathing (obstruction, central, or mixed apnea)

#### Medications

- Inductive Hypnotics (IV or inhaled)
- Opioids
- >1 agent
- Use of opioids in patients with sleep-disordered breathing

#### Metabolic

- Hypoglycemia
- Hypocalcemia
- Hypoalbuminemia

#### Diagnosis

End tidal CO<sub>2</sub> provides earlier detection, SpO<sub>2</sub> delayed.



#### Incidence of Apnea in Premature Infants

0.8% (Term)  
vs. 2% (Preterm)

Premature infants > 30 weeks PMA  
0% incidence in the first 48 hours after anesthesia

Preterm infants > 35 weeks PMA  
- 10% incidence

Preterm infants < 34 weeks PMA  
- 25% incidence

PMA = Postmenstrual age (Gestational age + Chronological age)

1. Marshall et al. Premature versus Term Children: Analysis of Ventilation-Respiratory Adverse Events and Longitudinal Risk. *Pediatrics*. 2014; 133(3):e661-668.

2. Gonsalves J, Miller G. Anesthesia for Infants & Children in the Pediatric Intensive Care Unit: Anesthesia for Monitoring and Management of Pediatric Patients Before, During, and After Sedation for Diagnostic and Therapeutic Procedures. *Pediatrics*. 2010; 126(1):e19-e30. doi: 10.1542/peds.2009-1955

### Prevention



- Prescreening prior to sedation. Refer high-risk patients to the anesthesiologist.



- Avoid multiple sedative/analgesic agents.  
- Avoid multiple doses of agents with long half-lives.  
- Propofol bolus should be given slowly and titrated to effect.



- Emergency drug box (Naloxone, Flumazenil, succinyl choline and glycopyrrolate) should be kept readily prior to sedation.



- Premature infants (<36 weeks PMA) may need close observation for 12 hours.

### Management



#### Call for Help

- Bag mask ventilation
- Reposition airway / Perform jaw thrust
- Insert oral airway/NP tube
- Consider reversal agents (opioids or benzodiazepines)
- LMA / Tracheal intubation

### Pharmacologic Tips

- Stop sedation/analgesia
- Use sedation/analgesia reversal agents from emergency drug box. Naloxone for opioids and Flumazenil for benzodiazepines.
- Discuss with primary care provider about the role of caffeine, especially in premature infants.

Creators: Karin Kotter, MD, pediatrician; Avani Patel, MD, pediatrician  
Shubham Patel, MD, pediatrician  
Review: Rishi Chaturvedi, MD, pediatrician  
Praship Kumar, MD, pediatrician

# Conscious Sedation Guidelines

**Charles J. Coté,Jerrold Lerman,I. David  
Todres**

## **Conscious Sedation Guidelines:**

**Practical Guide to Moderate Sedation/Analgesia** Jan Odom-Forren, Donna S. Watson, 2005-03-09 This easy to follow book is your complete clinical guide to caring for patients receiving conscious sedation analgesia during a short term therapeutic diagnostic or surgical procedure. It covers everything you need to know from practice guidelines for administering sedation to pre sedation requirements, intra procedure monitoring and documentation and discharge criteria.

**BOOK JACKET Moderate Sedation/Analgesia** Michael Kost, 2004-02-27 This 2nd edition focuses on the preprocedural procedural and postprocedural care of the moderately sedated patient. It is designed for any clinician involved in the administration of moderate sedation and written by a clinician involved in the practice on a daily basis. The primary focus of this new edition is to provide all the content and tools necessary to demonstrate competency in moderate sedation analgesia. Includes a greater focus on the core competencies necessary for clinical practice. Concept Checks are integrated throughout to help the learner assess the mastering of the content presented. Includes the recommended standards of practice from the ANA, AORN, American Academy of Pediatrics and JCAHO's Sample Policies Procedures. Contains sample clinical competencies for moderate sedation so the book can be used as a study guide and measurement tool. Incorporates throughout important information on the specific moderate sedation parameters of the pediatric and geriatric patients, addressing preprocedural assessment, physiologic variations, pharmacologic considerations and sedative techniques. Includes a comprehensive pharmacologic profile of each medication used in the moderate sedation practice setting. Follows a recommended core curriculum format but each idea and concept are discussed in detail. Increased integration of actual Clinical Scenarios facilitates the application of content knowledge and utilization of critical thinking skills. Integration of herbal preparations and their impact on pre sedation care. Latest JCAHO Sedation Anesthesia Guidelines 2004 incorporated throughout. A larger trim size 8.5 x 11 provides more of a manual feel and allows the reader to make notes and work through various tools throughout the book.

**Moderate Procedural Sedation and Analgesia** Michael Kost, 2019-03-09 Introducing the definitive resource designed for practitioners working in the rapidly expanding area of moderate procedural sedation and analgesia clinical practice. *Moderate Procedural Sedation and Analgesia: A Question and Answer Approach* focuses on the preprocedural procedural and postprocedural care of the moderately sedated patient in a variety of settings. This comprehensive text is designed to provide all the content and tools nurses and other clinicians need to demonstrate competency in moderate sedation and analgesia. Additionally, this user friendly text is written by well known sedation analgesia expert Michael Kost and recommended by standards of practice from the ANA, AORN and the American Academy of Pediatrics. New clinically focused text ensures clinicians involved in the administration and management of patients receiving moderate sedation have access to the most up to date information. Strong safety focus throughout the book explains how technology and clinician practice can improve sedation administration. Chapters organized in clinical problem question plus

answer format help you easily comprehend material Follows the latest TJC Sedation Anesthesia Guidelines ensuring you are ready for medication administration in clinical practice Pediatrics and Geriatrics chapters cover specific sedation practice recommendations that address the substantive clinical practice challenges associated with these patient populations Pharmacologic profiles of medications detail their use in the moderate sedation practice setting **Conscious Sedation/analgesia** Donna S. Watson,1998 This book provides all the key information for developing a thorough understanding of the concepts of IV conscious sedation Fully detailed sections include basic concepts of medications administration techniques potential complications and emergencies monitoring parameters developing a credentialing program legal implications and patient discharge The text is designed with practical implementations to the clinical setting including useful information such as sample documentation forms learner feedback and question and answer sections Traces the evolution of conscious sedation from the realm of the anesthetist to non anesthesia providers Provides an overview of the objectives of conscious sedation levels of sedation and patient selection Profiles commonly used conscious sedation drugs outlining pharmacokinetics dosage and administration contraindications and precautions adverse reactions and nursing implications Includes thorough preprocedure intraprocedure and postprocedure patient assessment with complete discharge and patient teaching information Profiles high risk patients and addresses management of neurologic pulmonary and cardiovascular complications Addresses competency issues and provides guidelines on setting institutional policies and standards on conscious sedation including many sample forms from a variety of health care settings Includes a separate chapter on pediatric sedation covering patient selection medication dosage and administration and physical and psychological responses specific to that population **Guidelines for the Use of Conscious Sedation in Periodontics** American Academy of Periodontology. Subcommittee on Anxiety and Pain Control,1990 **Guidelines for the Use of Conscious Sedation in Periodontics** American Academy of Periodontology. Committee on Research, Science and Therapy,1994

**Moderate Sedation/Analgesia Practice Guidelines** M. Ron Eslinger,2016-12-02 This book is the training manual only and does not consist of the complete training workshop of videos and books Complete program can be found at <https://sedationcertification.com> This Moderate Sedation Analgesia Guide defines recommended practices for IV sedation moderate conscious sedation and procedural sedation It was developed for non anesthesia registered nurses physician assistants physicians dentists and podiatrists This guide addresses patient assessment patient safety and the continuum of care issues that include the ability to identify and rescue patients who may progress to an unintended deep sedation or general anesthesia Many positions on political legal and ethical dilemmas concerning non anesthesia registered nurses administering sedation are still debated and will be discussed The reader will learn about the nursing care of patients receiving sedation or analgesic medications while undergoing invasive diagnostic or therapeutic procedures including medication administration patient monitoring discharge instructions family and patient teaching and patient safety concerns which are all critical

elements of nursing care for patients undergoing sedation See sedation certification course agenda *Guidelines for the Use of Conscious Sedation, Deep Sedation and General Anesthesia for Dentists* American Dental Association,2000

**Sedation** Stanley F. Malamed,2003 This definitive authoritative clinical manual stands alone in the field of patient sedation Combining essential theory with technical instruction it presents everything in a nutshell for the practicing professional and student of dentistry Key factors such as the physical emotional and mental condition of the patient as well as required ADA guidelines are incorporated into sedation techniques designed to improve the patient s overall dental experience The result is an indispensable book expert in its professional protocols and techniques and comprehensive in its wide ranging considerations Detailed chapters divided into eight parts are devoted to topics on the problem of fear and anxiety in dentistry pain and anxiety control pharmacosedation history and techniques of general anesthesia inhalation and intravenous sedation preparation and management of emergencies in the dental office and sedation for special needs patients pediatric geriatric and medical and physically compromised patients

**Guidelines for the Use of Conscious Sedation, Deep Sedation and General Anesthesia for Dentists** American Dental Association,1997

**"Code of Massachusetts regulations, 2014"** ,2014 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020

**Dentist's Guide to Medical Conditions and Complications**

Kanchan Ganda,2009-03-16 Dentist s Guide to Medical Conditions and Complications is a highly accessible reference to dental treatment of medically compromised patients The ability to treat medically compromised patients is necessary for most dentists and dental professionals and this book serves as a guide to effectively treat these patients In a succinct easy to use format Dentist s Guide to Medical Conditions and Complications outlines protocols for treating patients with common conditions presents essential drug interaction information and guides the dental professional through the prevention and management of in office medical emergencies

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**A Practice of Anesthesia for Infants and Children** Charles J. Coté,Jerrold Lerman,I. David Todres,2009-01-01 Provide optimal anesthetic care to your young patients with A Practice of Anesthesia in Infants and Children 5th Edition by Drs Charles J Cote Jerrold Lerman and Brian J Anderson 110 experts representing 10

different countries on 6 continents bring you complete coverage of the safe effective administration of general and regional anesthesia to infants and children covering standard techniques as well as the very latest advances Find authoritative answers on everything from preoperative evaluation through neonatal emergencies to the PACU Get a free laminated pocket

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## **Table of Contents Conscious Sedation Guidelines**

1. Understanding the eBook Conscious Sedation Guidelines
  - The Rise of Digital Reading Conscious Sedation Guidelines
  - Advantages of eBooks Over Traditional Books
2. Identifying Conscious Sedation Guidelines
  - 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 Conscious Sedation Guidelines
  - User-Friendly Interface
4. Exploring eBook Recommendations from Conscious Sedation Guidelines
  - Personalized Recommendations
  - Conscious Sedation Guidelines User Reviews and Ratings
  - Conscious Sedation Guidelines and Bestseller Lists

5. Accessing Conscious Sedation Guidelines Free and Paid eBooks
  - Conscious Sedation Guidelines Public Domain eBooks
  - Conscious Sedation Guidelines eBook Subscription Services
  - Conscious Sedation Guidelines Budget-Friendly Options
6. Navigating Conscious Sedation Guidelines eBook Formats
  - ePUB, PDF, MOBI, and More
  - Conscious Sedation Guidelines Compatibility with Devices
  - Conscious Sedation Guidelines Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Conscious Sedation Guidelines
  - Highlighting and Note-Taking Conscious Sedation Guidelines
  - Interactive Elements Conscious Sedation Guidelines
8. Staying Engaged with Conscious Sedation Guidelines
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Conscious Sedation Guidelines
9. Balancing eBooks and Physical Books Conscious Sedation Guidelines
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Conscious Sedation Guidelines
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Conscious Sedation Guidelines
  - Setting Reading Goals Conscious Sedation Guidelines
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Conscious Sedation Guidelines
  - Fact-Checking eBook Content of Conscious Sedation Guidelines
  - 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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on january 31 1961 an intrepid chimpanzee called ham was launched on a rocket from cape canaveral in the united states and returned to earth alive in this process he became the first hominin in space in the 1950s it was unclear whether humans could survive outside earth both physically and mentally

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jan 31 2021 06 54 ist ham s flight was 16 minutes and 39 seconds long he experienced a total of 6 6 minutes of weightlessness ham the chimp

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sep 20 2023 at the new mexico museum of space history in alamogordo visitors leave bananas on the gravestone of ham the astrochimp as a tribute to the first great ape who was launched into space before an american went to space it was a chimpanzee that really paved the way says michael shinaberry the museum s education specialist

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story september 20 2023 on may 5 1961 alan shepard became the first american in space however three months earlier nasa had launched number 65 on a mission that helped pave the way for shepard s momentous flight number 65 was a male chimpanzee born in 1957 in the french cameroons in west africa

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jan 31 2011 ham the astrochimp as he came to be known is named for the holloman aerospace medical center the lab located on new mexico s holloman air force base that prepared him for his historic flight

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sep 26 2019 ham the first astrochimp the skeleton of chimpanzee ham is part of the collections at the national museum of health and medicine ham completed a suborbital spaceflight in a mercury capsule on jan 31 1961 he died at 26 years old and his skeleton was donated to nmhm by the united states air force and the smithsonian national zoo

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feb 2 2021 ham was leapfrogging to the front of the evolutionary queue in a planet of the apes style interspecies competition ham s spaceflight made him more than animal but still less than human

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a three year old chimpanzee named ham in the biopack couch for the mr 2 suborbital test flight hams training took place in part at cape canaveral s hangar s on jan 31 1961 a mercury redstone launched from cape canaveral carrying the ham over 400 miles down range in an arching trajectory that reached a peak of 158 miles above the

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the success of ham s flight helped ratchet up even further the already frantic contest for scientific and space supremacy between the u s and the soviet union and briefly made ham something of a star here life com commemorates ham s 16 minute suborbital mission with photos taken before during and after his wild ride

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