

1. GUIDELINES: PROCEDURAL SEDATION MANAGEMENT

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I. Anesthesiology

A. *AMERICAN SOCIETY OF ANESTHESIOLOGY (ASA)*

1. The ASA Standards, Guidelines and Statements: asahq.org
2. Lightdale J, Mason KP, Wilson S, Turk DC, Dworkin RH, Ward DS. [Efficacy Outcome Measures for Pediatric Procedural Sedation Clinical Trials: An ACTION Systematic Review](#). *Anesth Analg*. 2018 Mar;126(3):956-967.

II. Pediatrics/Pediatric Hospital Medicine:

A. *AMERICAN SOCIETY OF ANESTHESIOLOGY (ASA)*

1. [Practice Guidelines for Moderate Procedural Sedation and Analgesia 2018: A Report by the American Society of Anesthesiologists Task Force on Moderate Procedural Sedation and Analgesia, the American Association of Oral and Maxillofacial Surgeons, American College of Radiology, American Dental Association, American Society of Dentist Anesthesiologists, and Society of Interventional Radiology](#). *Anesthesiology*. 2018 Mar;128(3):437-479.

2. Coté CJ, Wilson S; American Academy of Pediatrics; American Academy Of Pediatric Dentistry. [Guidelines for Monitoring and Management of Pediatric Patients Before, During, and After Sedation for Diagnostic and Therapeutic Procedures: Update 2016](#). *Pediatrics*. 2016 Jul;138(1). pii: e20161212.
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III. Dentistry

- A. *AAP & AAPD*
 1. [Practice Guidelines for Moderate Procedural Sedation and Analgesia 2018: A Report by the American Society of Anesthesiologists Task Force on Moderate Procedural Sedation and Analgesia, the American Association of Oral and Maxillofacial Surgeons, American College of Radiology, American Dental Association, American Society of Dentist Anesthesiologists, and Society of Interventional Radiology](#). *Anesthesiology*. 2018 Mar;128(3):437-479.
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- B. *American Society of Anesthesiologists (ASA)*
 1. ASA. [Guidelines for Office-Based Anesthesia](#). (Approved by the ASA House of Delegates on October 13, 1999; last amended on October 21, 2009; and reaffirmed on October 15, 2014)
- C. *UK National Clinical Guidelines in Paediatric Dentistry*
 1. Wilson KE. [Overview of Paediatric Dental Sedation: 1. current UK guidelines](#). *Dent Update*. 2013 Nov;40(9):728-30.
- D. *American Academy of Pediatric Dentistry (AAPD)*
 1. American Academy of Pediatric Dentistry. [Use of Anesthesia Providers in the Administration of Office-based Deep Sedation/General Anesthesia to the Pediatric Dental Patient](#). *Pediatr Dent*. 2017 Sep 15;39(6):308-311.

2. Council on Clinical Affairs, American Academy of Pediatric Dentistry. [Guideline on Use of Local Anesthesia for Pediatric Dental Patients](#). *Pediatr Dent*. 2015 Sep-Oct;37(5):71-7.
 3. Council on Clinical Affairs, American Academy of Pediatric Dentistry. [Guideline on Informed Consent](#). *Pediatr Dent*. 2015 Sep-Oct;37(5):95-7.
 4. American Academy of Pediatric Dentistry. [Guideline on use of nitrous oxide for pediatric dental patients](#). *Pediatr Dent*. 2013 Sep-Oct; 35(5): E174-8.
- E. *American Dental Association. (ADA)*
1. American Dental Association. [Guidelines for the use of sedation and general anesthesia by dentists](#). (Adopted by the ADA House of Delegates, October 2016)
- F. *International Governing Bodies & Professional Associations*
1. Scottish Dental Clinical Effectiveness Programme. [Conscious sedation in dentistry: dental clinical guidance, 3rd ed.](#) (June 2017).
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IV. Emergency Medicine

- A. *AMERICAN COLLEGE OF EMERGENCY PHYSICIANS (ACEP)*
1. Green SM, Roback MG, Krauss BS. [The Newest Threat to Emergency Department Procedural Sedation](#). *Ann Emerg Med*. 2018 Aug;72(2):115-119.
 2. Bhatt M, Johnson DW, Taljaard M, et al. [Association of Preprocedural Fasting With Outcomes of Emergency Department Sedation in Children](#). *JAMA Pediatr*. 2018 Jul 1;172(7):678-685.
 3. Langan ML, Shabanova V, Li FY, Bernstein SL, Shapiro ED. [A randomized controlled trial of capnography during sedation in a pediatric emergency setting](#). *Am J Emerg Med*. 2015 Jan;33(1):25-30.
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 5. Pacheco GS, Ferayorni A. [Pediatric procedural sedation and analgesia](#). *Emerg Med Clin North Am*. 2013 Aug;31(3):831-52.
 6. Green SM, Roback MG, Kennedy RM, Krauss B. [Clinical practice guideline for emergency department ketamine dissociative sedation: 2011 update](#). *Ann Emerg Med*. 2011 May;57(5):449-61.
 7. Green SM, Roback MG, Miner JR, Burton JH, Krauss B. [Fasting and emergency department procedural sedation and analgesia: a consensus-based clinical practice advisory](#). *Ann Emerg Med*. 2007 Apr;49(4):454-61.
- B. *THE COCHRANE COLLABORATION*
1. Wakai A, Blackburn C, McCabe A, et al. [The use of propofol for procedural sedation in emergency departments](#). *Cochrane Database Syst Rev*. 2015 Jul 29;(7):CD007399.

- C. *EMSC (Emergency Medical Services for Children, National Resource Center)*
1. Mace SE, Brown LA, Francis L, et al. [Clinical policy: Critical issues in the sedation of pediatric patients in the emergency department.](#) *Ann Emerg Med.* 2008 Apr;51(4):378-99, 399.e1-57.
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V. Radiology

- A. *ACR-SIR PRACTICE GUIDELINE FOR SEDATION/ANALGESIA*
1. American College of Radiology (ACR), Society of Interventional Radiology (SIR). [ACR-SIR practice guideline for sedation/analgesia.](#) [online publication] American College of Radiology (ACR); 2015.
- B. *ROYAL COLLEGE OF RADIOLOGISTS*
1. RCR. [Sedation, analgesia and anaesthesia in the radiology department,](#) 2nd ed. (2018)

VI. Gastroenterology

- A. *AMERICAN SOCIETY FOR GASTROINTESTINAL ENDOSCOPY (ASGE)*
1. ASGE Standards of Practice Committee, Early DS, Lightdale JR, et al. [Guidelines for sedation and anesthesia in GI endoscopy.](#) *Gastrointest Endosc.* 2018 Feb;87(2):327-337.
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- B. *SGNA: The Society of Gastroenterology Nurses and Associates, Inc.*
1. SGNA: The Society of Gastroenterology Nurses and Associates, Inc. [Position Statement: Statement on the Use of Sedation and Analgesia in the Gastrointestinal Endoscopy Setting.](#) (2013)

VII. Advanced Practice Providers

- A. Refer to guidelines in [Pediatrics/ Pediatric Hospital Medicine and Nursing](#) categories.

VIII. Nursing

- A. Refer to guidelines in [Pediatrics/ Pediatric Hospital Medicine and Nursing](#) categories.
 - 1. [Sedation Nurse Competencies and Pediatric Sedation Nursing Standards of Care](#): Society for Pediatric Sedation Nursing Committee
 - 2. [American Association of Moderate Sedation Nurses](#)
 - 3. Crego N. [Procedural sedation practice: A review of current nursing standards](#). Journal of Nursing Regulation. 2015 Apr 1;6(1):50-6.
 - 4. Murphy JM. [Credentialing process for nurse providers of moderate sedation](#). Journal of Radiology Nursing. 2013 Mar 1; 32(1):10-8.
 - 5. Czarnecki ML, Turner HN, PM Collins, et al. [Procedural pain management: a position statement with clinical practice recommendations](#). Pain Manag Nurs. 2011 Jun; 12 (2): 95-111.
 - 6. Proehl J, Arruda T, Crowley M, et al. [Emergency Nursing Resource: the use of capnography during procedural sedation/analgesia in the emergency department](#). J Emerg Nurs. 2011 Nov;37(6):533-6.

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ADMINISTRATIVE GUIDELINES (Credentialing, Competencies, Quality and Safety)

A. Anesthesiology

1. The ASA Standards, Guidelines and Statements

asahq.org/quality-and-practice-management/standards-and-guidelines

B. Pediatrics/ Pediatric Subspecialties/ Dentistry/ Advanced Practice Providers

1. Society for Pediatric Sedation Consensus Statement: [Core Competencies for Pediatric Providers Who Deliver Deep Sedation](#)
2. The American Society of Anesthesiologists. [Distinguishing Monitored Anesthesia Care \(“MAC”\) From Moderate Sedation/Analgesia \(Conscious Sedation\)](#). (Approved by the ASA House of Delegates on October 27, 2004, and last amended on October 17, 2018)
3. The American Society of Anesthesiologists. [Advisory on granting privileges for deep sedation to non-anesthesiologist sedation practitioners](#). (Approved by the ASA House of Delegates on October 20, 2010 and last amended on October 25, 2017)
4. The American Society of Anesthesiologists. [Statement on granting privileges for administration of moderate sedation to practitioners who are not anesthesia professionals](#). (Approved by the ASA House of Delegates on October 25, 2005, and reaffirmed on October 26, 2016)
5. American Academy of Pediatric Dentistry (AAPD). [Guideline on Use of Anesthesia Personnel in the Administration of Office-based Deep Sedation/General Anesthesia to the Pediatric Dental Patient](#). *Pediatr Dent*. 2016 Oct;38(6):246-249.
6. Haeck PC, Swanson JA, Iverson RE, et al. [Evidence-based patient safety advisory: patient selection and procedures in ambulatory surgery](#). *Plast Reconstr Surg*. 2009 Oct;124(4 Suppl):6S-27S.

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REGULATORY GUIDELINES

A. *The Joint Commission on Accreditation of Healthcare Organizations*

1. [The Joint Commission: General Information on Standards](#)
2. [The Joint Commission Anesthesia and Sedation Standards \(PC.03.01.01 through PC.03.01.07\)](#) (Your institution must have login for E-dition.):
 - General, spinal, or other major regional anesthesia
 - Moderate or deep sedation (with or without analgesia) that, in the manner used, may be expected to result in the loss of protective reflexes

B. *Centers for Medicare and Medicaid services (CMS)*

1. [CMS Clarification of the Interpretive Guidelines for the Anesthesia Services Condition of Participation](#) (2010)
2. [CMS Revised Appendix A, Interpretive Guidelines for Hospitals](#) (2011)

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QUALITY AND SAFETY: (Supplemental References)

1. Connors JM, Cravero JP, Kost S, LaViolette D, Lowrie L, Scherrer PD. [Great expectations-defining quality in pediatric sedation: outcomes of a multidisciplinary consensus conference](#). J Healthc Qual. 2015 Mar-Apr; 37(2):139-54.
2. Mason KP, Green SM, Piacevoli Q; International Sedation Task Force. [Adverse event reporting tool to standardize the reporting and tracking of adverse events during procedural sedation: a consensus document from the World SIVA International Sedation Task Force](#). Br J Anaesth. 2012 Jan;108(1):13-20.
3. Cravero JP. [Risk and safety of pediatric sedation/anesthesia for procedures outside the operating room](#). Curr Opin Anaesthesiol. 2009 Aug;22(4):509-13.
4. Bhatt M, Kennedy RM, Osmond MH, et al. [Consensus-based recommendations for standardizing terminology and reporting adverse events for emergency department procedural sedation and analgesia in children](#). Ann Emerg Med. 2009 Apr;53(4):426-435.e4.
5. Cravero JP, Beach ML, Blike GT, et al. [The incidence and nature of adverse events during pediatric sedation/anesthesia with propofol for procedures outside the operating room: a report from the Pediatric Sedation Research Consortium](#). Anesth Analg. 2009 Mar;108(3):795-804.

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7. Sacchetti A, Stander E, Ferguson N, Maniar G, Valko P. [Pediatric Procedural Sedation in the Community Emergency Department: results from the ProSCED registry.](#) Pediatr Emerg Care. 2007 Apr;23(4):218-22.

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2. GUIDELINES: ACUTE PAIN MANAGEMENT

1. Committee on Fetus and Newborn and Section on Anesthesiology and Pain Medicine. [Prevention and Management of Procedural Pain in the Neonate: An Update](#). Pediatrics. 2016 Feb;137(2): e20154271.
2. Lee GY, Yamada J, Kyololo O, Shorkey A, Stevens B. [Pediatric clinical practice guidelines for acute procedural pain: a systematic review](#). Pediatrics. 2014 Mar;133(3): 500-15.
3. Czarnecki ML, Turner HN, PM Collins, et al. [Procedural pain management: a position statement with clinical practice recommendations](#). Pain Manag Nurs. 2011 Jun; 12 (2): 95-111.
4. American Academy of Pediatrics. Committee on Psychosocial Aspects of Child and Family Health; Task Force on Pain in Infants, Children, and Adolescents. [The assessment and management of acute pain in infants, children, and adolescents](#). Pediatrics. 2001 Sep;108(3):793-7.

3. INTERNATIONAL GUIDELINES: PROCEDURAL SEDATION AND PAIN MANAGEMENT

1. Roback MG, Green SM, Andolfatto G, et al. [Tracking and Reporting Outcomes Of Procedural Sedation \(TROOPS\): Standardized Quality Improvement and Research Tools from the International Committee for the Advancement of Procedural Sedation](#). Br J Anaesth. 2018 Jan; 120(1):164-172.
2. Abarshi E, Rietjens J, Robijn L, et al. [International variations in clinical practice guidelines for palliative sedation: a systematic review](#). BMJ Support Palliat Care. 2017 Sep;7(3):223-229.
3. Vargo JJ, Manolaraki M, Wientjes C, et al. [Non-anesthesiologist administration of propofol for gastrointestinal endoscopy: European Society of Gastrointestinal Endoscopy, European Society of Gastroenterology and Endoscopy Nurses and Associates Guideline--Updated June 2015](#). Endoscopy. 2015 Dec;47(12):1175-89.
4. Riphaut A, Wehrmann T, Hausmann J, et al. [Update S3-guideline: "sedation for gastrointestinal endoscopy" 2014 \(AWMF-register-no. 021/014\)](#). Z Gastroenterol. 2016 Jan;54(1):58-95.
5. South African Society of Anesthesiologists. [Guidelines for the safe use of procedural sedation and analgesia for diagnostic and therapeutic procedures in children](#). Southern African Journal of Anaesthesia and Analgesia. 2010; 16 (5, Suppl. 1): S31-37.
6. National Clinical Guideline Centre (UK). [Sedation in Children and Young People: Sedation for Diagnostic and Therapeutic Procedures in Children and Young People \[Internet\]](#). London: Royal College of Physicians (UK); 2010 Dec.
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9. Scottish Intercollegiate Guidelines Network. [SIGN Guideline 58: safe sedation of children undergoing diagnostic and therapeutic procedures](#). Paediatr Anaesth. 2008 Jan;18(1):11-2.
10. Schreiber F; Working Group on Endoscopy, Austrian Society of Gastroenterology and Hepatology (OGGH). [Austrian Society of Gastroenterology and Hepatology \(OGGH\)--guidelines on sedation and monitoring during gastrointestinal endoscopy](#). Endoscopy. 2007 Mar;39(3):259-62.

11. Levati A, Paccagnella F, Pietrini D, et al. SIAARTI-SARNePI [Guidelines for sedation in pediatric neuroradiology](#). *Minerva Anesthesiol.* 2004 Oct;70(10):675-97; 698-715.
12. Standing Dental Advisory Committee. [Conscious sedation in the provision of dental care: new guidelines](#). *SAAD Dig.* 2004 Spring; 21(1):20-2.
13. Australasian College for Emergency Medicine, Australian and New Zealand College of Anaesthetists; Faculty of Pain Medicine and Joint Faculty of Intensive Care Medicine. [Statement on clinical principles for procedural sedation](#). *Emerg Med (Fremantle)*. 2003 Apr;15(2):205-6.
14. Innes G, Murphy M, Nijssen-Jordan C, et al. [Procedural sedation and analgesia in the emergency department. Canadian Consensus Guidelines](#). *J Emerg Med.* 1999 Jan-Feb;17(1):145-56.