

Clinical Policy: IV Moderate Sedation, IV Deep Sedation, and General Anesthesia for Dental Procedures

Reference Number: NC.CP.MP.61

Date of Last Revision: 06/2023

[Coding Implications](#)
[Revision Log](#)

See [Important Reminder](#) at the end of this policy for important regulatory and legal information.

Description

The administration of intravenous moderate sedation and intravenous deep sedation/general anesthesia in the dental office, inpatient hospital, or ambulatory surgical center may be necessary to safely provide dental care. These procedures generally are safe when administered by trained, certified providers in the appropriate setting, but are not without risk. According to the American Academy of Pediatrics and the American Academy of Pediatric Dentistry (AAPD), the sedation of children is different from the sedation of adults, and the in-office use of deep sedation or general anesthesia may be appropriate on select pediatric dental patients administered in appropriately equipped and staffed facilities. Pediatric patients are subject to higher risk of adverse outcomes with sedation.

Policy/Criteria

- I. It is the policy of health plans affiliated with Centene Corporation[®] that intravenous moderate sedation, intravenous deep sedation, and general anesthesia are **medically necessary** when all of the following general criteria and place of service-specific criteria are met in either II or III:
 - A. Any of the following indications:
 1. Documented extreme anxiety or fear and documentation of failed local anesthesia, inhalation of nitrous oxide, or oral conscious sedation attempts;
 2. Dental and medical records documentation substantiates a physical, cognitive, or developmental disability (including, but not limited to, congenital cardiac defect, cerebral palsy, epilepsy) that would render the patient non-compliant;
 3. Underlying medical conditions are supported by patient records;
 4. There is documentation of allergy or sensitivity to local anesthesia;
 5. Lengthy and numerous (more than four teeth) restorative procedures for pediatric member/enrollee;
 6. Documentation indicates a pediatric member/enrollee has resisted all other conventional behavior management procedures;
 7. Documentation indicates a pediatric member/enrollee has history of uncooperative behaviors that may result in the compromised safety of the member/enrollee, provider, or staff;
 8. Documented history of relevant social impact conditions;
 9. Complex and extensive surgical procedures such as two or more impacted teeth in two or more quadrants, or two or more extractions of permanent teeth per quadrant in at least two quadrants.
 - B. None of the following:
 1. Member/enrollee has predisposing medical and/or physical conditions that would make general anesthesia unsafe;

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2. Member/enrollee is cooperative and has minimal dental needs;
3. General anesthesia or moderate or deep sedation is requested for member/enrollee or dentist convenience;
4. Member/enrollee has history of tolerating similar dental procedures without the need for sedation;
5. Member/enrollee has a choice of an alternative option for treatment;
6. Member/enrollee has an allergy to oral sedatives or reversal agents;
7. Parent or guardian objects to the sedation or general anesthesia;
8. There are no covered and approved dental services to be rendered.

C. Required documentation, all the following:

1. Current (less than 6 months) diagnostic quality pre-operative radiographs (when achievable);
2. Intraoral photographic images if radiographs are not achievable or if requested treatment is not visualized in the radiographs;
3. Patient chart and treatment notes document conditions supporting medical necessity and all relevant dental and medical diagnoses and/or ICD-10 diagnosis codes;
4. Patient chart and treatment notes document applicable non-clinical and/or relevant social conditions;
5. Complete treatment plan;
6. ASA physical status classification (ASA Classes III and IV for member/enrollees under the age of 8 will not be approved for a dental office setting);
7. Specific history of failed anesthesia, sedation, or analgesia/anxiolysis attempts;
8. Referring dentist evaluation records;
9. State-mandated outpatient (OP) form, if applicable.

II. It is the policy of health plans affiliated with Centene Corporation[®] that in-office IV sedation or general anesthesia is **medically necessary** and the appropriate venue when the general criteria in section I. are met, the member/enrollee has no significant medical comorbidities and any of the following:

- A. Member/enrollee exhibits moderate or situational anxiety;
- B. Pediatric member/enrollee with limited treatment need (4 to 6 teeth requiring restoration, pulpotomy, or extraction);
- C. Pediatric member/enrollee has social impact conditions necessitating completion of all treatment needs during a single visit;
- D. Pediatric member/enrollee under the age of 8 with medically necessary dental services and with an ASA I or II classification;
- E. Pediatric member/enrollee under the age of 8 with medically necessary dental services and with an uncompromised airway;
- F. Member/enrollee requires extraction of two or more impacted teeth in two or more quadrants;
- G. Member/enrollee requires extraction of two or more permanent teeth per quadrant involving two or more quadrants.

III. It is the policy of health plans affiliated with Centene Corporation[®] that ambulatory surgical

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center (ASC) or hospital out-patient IV sedation or general anesthesia is **medically necessary** and the appropriate venue when the general criteria in section I. are met and any of the following:

- A.** Member/enrollee has compromising medical comorbidities;
- B.** Local factors (e.g., access to care) or state regulations permit treating cases in an ASC that meet in-office approval conditions;
- C.** Pediatric member/enrollee with extensive treatment needs (6+ teeth requiring restoration, pulpotomy, or extraction of primary teeth);
- D.** Pediatric member/enrollee with a combination of at least four teeth requiring restoration, pulpotomy, or extraction of primary teeth and the presence of at least one major medical comorbidity (e.g., documented anxiety disorder, uncontrolled asthma, pre-combative or combative behavior);
- E.** Pediatric member/enrollee with social impact conditions necessitating completion of all treatment needs during a single visit and in-office IV sedation or general anesthesia is not accessible;
- F.** Pediatric member/enrollee with social impact conditions necessitating completion of all treatment needs during a single visit in combination with a major medical comorbidity;
- G.** Pediatric member/enrollee under the age of 8 years with medically necessary dental services meeting clinical criteria and with an ASA III or IV classification;
- H.** Pediatric member/enrollee under the age of 8 years with medically necessary dental services and a compromised or obstructed airway;
- I.** Member/enrollee requires extraction of two or more impacted teeth in two or more quadrants in combination with a major medical comorbidity;
- J.** Member/enrollee requires extraction of two or more permanent teeth per quadrant involving two or more quadrants in combination with a major medical comorbidity.

Background*Guidelines*

According to the American Dental Association (ADA), dentists must comply with their state laws, rules and/or regulations when providing sedation and anesthesia, and follow the educational and training requirements for the level of sedation intended. The ADA maintains clinical guidelines and educational/training requirements for all levels of sedation and includes specific information for the following:

- Patient history and evaluation
- Personnel and equipment requirements
- Monitoring and documentation (including consciousness, oxygenation, ventilation, and circulation)
- Recovery and discharge
- Emergency management

Providers are encouraged to embrace and utilize the following American Academy of Pediatrics (AAP), American Academy of Pediatric Dentistry (AAPD), American Society of Anesthesiologists (ASA), Society for Pediatric Anesthesia, American Society of Dentist Anesthesiologists, and Society for Pediatric Sedation guidelines and/or recommendations.

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- High-risk patients and pediatric patients under the age of 8 should be evaluated by a primary care physician or physician anesthesiologist prior to scheduling a procedure.
- Prolonged and extensive procedures with longer periods of sedation and anesthesia care are of concern in the office-based setting and qualified anesthesia providers, in consultation with such patients, should consider more suitable facilities for the procedure.
- A second trained and PALS-certified observer, who is skilled in the ability to open the airway, suction secretions, provider CPAP, insert supraglottic devices (oral airway, nasal trumpet, laryngeal mask airway), and perform successful bag-valve-mask ventilation, tracheal intubation, cardiopulmonary resuscitation, and intravenous drug administration should be utilized, especially in an in-office setting.
- PALS-certified observers should be present to monitor the patient throughout procedures performed with sedation and have no other responsibilities during deep sedation and/or general anesthesia.
- Oral surgeons and other dental practitioners who provide intravenous deep sedation or general anesthesia should discontinue the use of the single provider/operator model for the care of pediatric patients under the age of 8 when sedated in dental offices.

Drugs, Medicaments, and Gases

Drugs, medicaments, and gases are used for the following levels of anxiolysis/analgesia, oral conscious sedation, IV moderate sedation, IV deep sedation/general anesthesia and include, but are not limited to the following:

Anxiolysis/Analgesia

- Nitrous oxide and oxygen

Oral Conscious Sedation

- Midazolam – Schedule IV
- Hydroxyzine
- Diphenhydramine

IV Moderate Sedation

- Benzodiazapine
- Opioids – Schedule II

IV Deep Sedation/General Anesthesia

- Propofol
- Benzodiazapine
- Ketamine – Schedule III
- Dexmedetomidine
- Sevoflurane
- Desflurane
- Isoflurane
- Methohexital – Schedule IV
- Succinylcholine
- Opioids – Schedule II

Sedation/General Anesthesia Definitions

IV Moderate Sedation: A drug-induced depression of consciousness during which patients respond purposefully to verbal commands, either alone or accompanied by light tactile stimulation. No interventions are required to maintain a patent airway, and spontaneous ventilation is adequate. Cardiovascular function is usually maintained.

IV Deep Sedation: A drug-induced depression of consciousness during which patients cannot be easily aroused but respond purposefully after repeated verbal or painful stimulation (e.g., purposefully pushing away the noxious stimuli). Reflex withdrawal from a painful stimulus is not considered a purposeful response and is more consistent with a state of general anesthesia. The ability to maintain ventilator function may be impaired. Patients may require assistance in

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maintaining a patent airway, and spontaneous ventilation may be inadequate. Cardiovascular function is usually maintained.

General Anesthesia: A drug-induced loss of consciousness during which patients are not arousable, even by painful stimulation. The ability to independently maintain respiratory function is often impaired. Patients often require assistance in maintaining a patent airway, and positive-pressure ventilation may be required because of depressed spontaneous ventilation or drug-induced depression of neuromuscular function. Cardiovascular function may be impaired.

Coding Implications

This clinical policy references Current Procedural Terminology (CPT[®]). CPT[®] is a registered trademark of the American Medical Association. All CPT codes and descriptions are copyrighted 2020, American Medical Association. All rights reserved. CPT codes and CPT descriptions are from the current manuals and those included herein are not intended to be all-inclusive and are included for informational purposes only. Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

Coding Limitations/Exclusions

1. One D9222 or D9239 per date of service.
2. More than four units of D9223 or D9243 per date of service requires a copy of the sedation log, subject to state-specific regulations.

| CPT [®] Codes | Description |
|---------------------------|--|
| 00170 | Anesthesia for intraoral procedures, including biopsy; not otherwise specified |
| 00190 | Anesthesia for procedures on facial bones or skull; not otherwise specified |

| CDT [®] Codes | Description |
|---------------------------|---|
| D9222 | Deep sedation/general anesthesia – first 15 minutes |
| D9223 | Deep sedation/general anesthesia – each subsequent 15 minute increment |
| D9239 | Intravenous moderate (conscious) sedation/analgesia – first 15 minutes |
| D9243 | Intravenous moderate (conscious) sedation/analgesia – each subsequent 15 minute increment |
| D9248 | Non-intravenous conscious sedation |

| Reviews, Revisions, and Approvals | Revision Date | Approval Date |
|---|---------------|---------------|
| Policy developed | | 06/13 |
| Added examples of significantly complex dental procedures in policy section | 05/15 | 06/15 |
| Policy updated to new template. References reviewed and updated | 06/16 | 06/16 |
| References reviewed and updated | 05/17 | 06/17 |

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| Reviews, Revisions, and Approvals | Revision Date | Approval Date |
|---|---------------|---------------|
| References reviewed and updated. Code updates | 03/18 | 04/18 |
| References reviewed and updated. Specialist reviewed. | 03/19 | 04/19 |
| References reviewed and updated | 03/20 | 03/20 |
| Annual review. References reviewed and updated. Replaced all instances of member with member/enrollee. Specialist reviewed. | 02/21 | 03/21 |
| Annual review. References reviewed, updated, and reformatted. Changed “review date” in the header to “date of last revision” and “date” in the revision log header to “revision date.” | 10/21 | 10/21 |
| Changed title from “Dental Anesthesia” to “IV Moderate Sedation, IV Deep Sedation, and General Anesthesia for Dental Procedures” and adopted the Envolve Dental Policy criteria from ENVD.UM.CP.0009, approved 11/21. Removed HCPCS code D9230. Minor rewording without clinical significance. Specified that general criteria in I. must be met in addition to POS-specific criteria in II or III. Clarified in I. that A (indications), B (lack of contraindications), and C (documentation) must all be met. Specified in II that absence of comorbidities applies to all indications. Moved professional society guidelines/recommendations, list of sedation/anesthesia drugs, and definitions to the background. References reviewed, updated, and reformatted. | 10/22 | 10/22 |
| NC Specific Policy Developed Added “teeth” to 1.A.5; Revised III.C from “7+ teeth” to “6+ teeth;” | 06/2023 | 06/2023 |

References

1. Andropoulos DB, Greene MF. Anesthesia and Developing Brains - Implications of the FDA Warning. *N Engl J Med*. 2017;376(10):905 to 907. doi:10.1056/NEJMp1700196
2. American Academy on Pediatric Dentistry Ad Hoc Committee on Sedation and Anesthesia; American Academy on Pediatric Dentistry Council on Clinical Affairs. Policy on the use of deep sedation and general anesthesia in the pediatric dental office. *Pediatr Dent*. 2008;30(7 Suppl):66 to 67.
3. 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. *Pediatrics*. 2019;143(6):e20191000. doi:10.1542/peds.2019-1000
4. American Dental Association. *CDT2020 Current Dental Procedures*. 2020.
5. American Dental Association. Guidelines for Use of Sedation and General Anesthesia by Dentists (2007). https://www.ada.org/-/media/project/ada-organization/ada/ada-org/files/publications/cdt/anesthesia_guidelines.pdf. Accessed September 20, 2022.
6. American Society of Anesthesiologists. Statement on Sedation & Anesthesia Administration in Dental Office-Based Settings. <https://www.asahq.org/standards-and-guidelines/statement-on-sedation--anesthesia-administration-in-dental-officebased-settings>. Accessed September 22, 2022.
7. Berkowitz R, Barinholtz D. *Anesthesia for Office-Based Pediatric Anesthesia. Smith's Anesthesia for Infants and Children*. 8th Edition. Elsevier Inc.; 2011

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8. Collado V, Faulks D, Nicolas E, Hennequin M. Conscious sedation procedures using intravenous midazolam for dental care in patients with different cognitive profiles: a prospective study of effectiveness and safety. *PLoS One*. 2013;8(8):e71240. Published 2013 Aug 5. doi:10.1371/journal.pone.0071240
9. de Nova García MJ, Gallardo López NE, Martín Sanjuán C, Mourelle Martínez MR, Alonso García Y, Carracedo Cabaleiro E. Criteria for selecting children with special needs for dental treatment under general anaesthesia. *Med Oral Patol Oral Cir Bucal*. 2007;12(7):E496 to E503. Published 2007 Nov 1.
10. El Batawi HY. Effect of preoperative oral midazolam sedation on separation anxiety and emergence delirium among children undergoing dental treatment under general anesthesia. *J Int Soc Prev Community Dent*. 2015;5(2):88 to 94. doi:10.4103/2231-0762.155728
11. Heaton LJ, McNeil DW, Milgrom P. Propranolol and D-cycloserine as adjunctive medications in reducing dental fear in sedation practice. *SAAD Dig*. 2010;26:27 to 35.
12. Lyratzopoulos G, Blain KM. Inhalation sedation with nitrous oxide as an alternative to dental general anaesthesia for children. *J Public Health Med*. 2003;25(4):303 to 312. doi:10.1093/pubmed/fdg068
13. Malamed, SF. *Sedation: A Guide to Patient Management*. 5th Edition. Elsevier - Health Sciences Division; 2009.
14. Nelson T, Nelson G. The role of sedation in contemporary pediatric dentistry. *Dent Clin North Am*. 2013;57(1):145 to 161. doi:10.1016/j.cden.2012.09.007
15. Nelson TM, Xu Z. Pediatric dental sedation: challenges and opportunities. *Clin Cosmet Investig Dent*. 2015;7:97 to 106. Published 2015 Aug 26. doi:10.2147/CCIDE.S64250
16. Southerland JH, Brown LR. Conscious Intravenous Sedation in Dentistry: A Review of Current Therapy. *Dent Clin North Am*. 2016;60(2):309 to 346. doi:10.1016/j.cden.2015.11.009

Important Reminder:

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. “Health Plan” means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan’s affiliates, as applicable.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable Health Plan-level administrative policies and procedures.

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This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members/enrollees. This clinical policy is not intended to recommend treatment for members/enrollees. Members/enrollees should consult with their treating physician in connection with diagnosis and treatment decisions.

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Note: For Medicaid members/enrollees, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

Note: For Medicare members/enrollees, to ensure consistency with the Medicare National Coverage Determinations (NCD) and Local Coverage Determinations (LCD), all applicable NCDs, LCDs, and Medicare Coverage Articles should be reviewed prior to applying the criteria set forth in this clinical policy. Refer to the CMS website at <http://www.cms.gov> for additional information.

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