ENVOLVE DENTAL, INC.
INCLUDING ALL ASSOCIATED SUBSIDIARIES
CLINICAL POLICY AND PROCEDURE

DEPARTMENT: Utilization Management	**DOCUMENT NAME:** **Inhalation of Nitrous Oxide/Analgesia, Anxiolysis**
PAGE: 1 of 6	**REFERENCE NUMBER:** **ENVD.UM.CP.0021**
EFFECTIVE DATE: 05/04/2020	**REPLACES DOCUMENT:**
RETIRED: N/A	**REVIEWED: 11/2021**
SPECIALIST REVIEWED: Yes	**REVISED: 06/25/2020**
PRODUCT TYPE: All	**APPROVED DATE: 06/30/2020**

IMPORTANT REMINDER:

This Clinical Policy has been developed by appropriately experienced and licensed health care professionals based on a thorough review and consideration of generally accepted standards of dental practice, peer-reviewed dental/medical literature, government agency/program approval status, and other indicia of dental/medical necessity.

The purpose of this Clinical Policy is to provide a guide to dental/medical necessity. Benefit determinations should be based in all cases on the applicable contract provisions governing plan benefits ("Benefit Plan Contract") and applicable state and federal requirements, as well as applicable plan-level administrative policies and procedures. To the extent there are any conflicts between this Clinical Policy and the Benefit Plan Contract provisions, the Benefit Plan Contract provisions will control.

Clinical policies are intended to be reflective of current scientific research and clinical thinking. This Clinical Policy is not intended to dictate to providers how to practice dentistry, nor does it constitute a contract or guarantee regarding results. Providers are expected to exercise professional dental judgment in providing the most appropriate care, and are solely responsible for the dental/medical advice and treatment of members.

SUBJECT:

Medical necessity guidelines for administration of nitrous oxide/oxygen inhalation.

DESCRIPTION:

Inhalation of nitrous oxide and oxygen is considered safe and effective when properly administered by trained individuals. Nitrous oxide and oxygen inhalation is a safe and effective method to help reduce or minimize anxiety, fear and pain during the delivery of dental services, as well as to control the gag reflex, particularly for children and persons with special health care needs. In addition, it may also reduce movement interfering with dental treatment, increase tolerance to pain or lengthy procedures, and enhance patient communication and cooperation. The use of nitrous oxide/oxygen should be based on the treatment needs and mitigating safety factors of each individual patient.

POLICY/CRITERIA:

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Indications for Nitrous Oxide/Oxygen use include the following:

- **When a patient is fearful, anxious, or unruly**
- **When treating persons with special health care needs**
- **When a patient has an interfering gag reflex**
- **When profound anesthesia cannot be obtained**
- **When a patient is undergoing extensive or lengthy procedures**

Contraindications for Nitrous Oxide/Oxygen use include the following:

- **When a patient has history of previous untoward reaction to nitrous oxide**
- **When a patient has chronic obstructive pulmonary disease**
- **When a patient has a respiratory disease that interferes with or inhibits air flow**
- **When a patient has a recent history of a middle ear infection or surgery**
- **When severe emotional disturbance or drug dependency is present**
- **During the first trimester of pregnancy**
- **When a patient is treated with bleomycin sulfate**
- **When a patient has a methylenetetrahydrofolate reductase deficiency**
- **When a patient has a vitamin B-12 deficiency**
- **When a patient has a condition with increased intracranial pressure**
- **When a patient has a pneumothorax/bullae**
- **When a patient has a bowel obstruction**
- **When a patient has claustrophobia**
- **When a patient has nasal obstruction**
- **When a patient has a recent history of retinal surgery**

REQUIRED DOCUMENTATION:

- **Clinical chart notes documenting behavior or conditions listed in the indications for use of nitrous oxide/inhalation;**
- **<u>OR</u> in the alternative to the above requirement for the state of Mississippi,**

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Inclusion of a qualifying ICD-10 diagnosis code (located below) in Boxes 34 and 34a on the 2012 or later ADA claim form or on the claim submitted using the Envolve Dental Provider Web Portal.

In all instances, documentation of gas flow rate, concentration, and duration of each concentration, as well as the patient's behavior response to the use of nitrous oxide must also be retained in the patient record and are subject to patient chart audit.

COVERAGE LIMITATIONS/EXCLUSIONS (Subject to State Regulations):

- **One D9230 per member per date of service, subject to state regulations**

REFERENCES:

American Academy of Pediatric Dentistry. Use of Nitrous Oxide for Pediatric Dental Patients. Reference Manual 2019-2020, pp. 293-298.

American Academy of Pediatric Dentistry Behavioral Guidance for the Pediatric Dental Patient. Reference Manual 2019-2020, pp. 266-279 https://www.aapd.org/globalassets/media/policies_guidelines/bp_behavguide.pdf.

American Dental Association. Oral Health Topics – Nitrous oxide: dental best practices for nitrous oxide-oxygen. https://www.ada.org/en/member-center/oral-health-topics/nitrous-oxide. Accessed April 23, 2020.

American Dental Association. CDT 2020: Dental Procedure Codes. American Dental Association, 2020.

CODING IMPLICATIONS:

Please refer to your State contract and Provider Manual for exact coverage implications.

The following code for inhalation of nitrous oxide/analgesia, anxiolysis is recognized by Envolve Dental.

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- **D9230: Inhalation of nitrous oxide/analgesia, anxiolysis**

Envolve Dental complies with the coding guidelines of the health plan and/or State in which the client resides. When billing D9230, the need for inhalation of nitrous oxide/analgesia, anxiolysis must be documented in the record. Abnormal comparative utilization of comprehensive examination coding is subject to retrospective review and chart audit. Envolve Dental requires servicing providers to submit one or more of the following ICD-10 codes with inhalation of nitrous oxide/analgesia, anxiolysis (Box 34 and 34a of the ADA American Dental Association Dental Claim Form):

ICD-10 Code	ICD-10 Code Description
F06.4	Anxiety disorder due to known physiological condition
F40.00	Agoraphobia, unspecified
F40.01	Agoraphobia with panic disorder
F40.02	Agoraphobia without panic disorder
F40.230	Fear of blood
F40.231	Fear of injections and transfusions
F40.232	Fear of other medical care
F40.233	Fear of injury
F40.248	Other situational type phobia
F40.298	Other specified phobia
F40.8	Other phobic anxiety disorders
F40.9	Phobic anxiety disorder, unspecified
F41.0	Panic disorder
F41.1	Generalized anxiety disorder
F41.3	Other mixed anxiety disorders
F41.8	Other specified anxiety disorders
F41.9	Anxiety Disorder, unspecified
F43.0	Acute stress reaction
F43.10	Post-traumatic stress disorder, unspecified
F43.11	Post-traumatic stress disorder, acute

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F43.12	**Post-traumatic stress disorder, chronic**
F43.8	**Other reactions to severe stress**
F43.9	**Reaction to severe stress, unspecified**
F69	**Unspecified disorder of adult personality and behavior**
F70	**Mild intellectual disabilities**
F71	**Moderate intellectual disabilities**
F72	**Severe intellectual disabilities**
F73	**Profound Intellectual disabilities**
F78	**Other intellectual disabilities**
F79	**Unspecified intellectual disabilities**
F82	**Specific developmental disorder of motor function**
F84.0	**Autistic disorder**
F84.2	**Rett's syndrome**
F84.3	**Other childhood disintegrative disorder**
F84.5	**Asperger's syndrome**
F84.8	**Other pervasive developmental disorders**
F84.9	**Pervasive developmental disorder, unspecified**
F88	**Other disorders of psychological development**
F89	**Unspecified disorder of psychological development**
F91.0	**Conduct disorder confined to family context**
F91.1	**Conduct disorder, childhood-onset type**
F91.2	**Conduct disorder, adolescent-onset type**
F91.3	**Oppositional defiant disorder**
F91.8	**Other conduct disorders**
F91.9	**Conduct disorder, unspecified**
J39.2	**Other diseases of pharynx**
R29.2	**Abnormal reflex**

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REVISION LOG

REVISION	DATE
Revised policy.	**06/25/2020**
Annual Review	11/2021

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