

Clinical Policy: Pediatric Continuous Positive Airway Pressure (CPAP)

Reference Number: CP.MP.197

Last Review Date: 09/20

Coding Implications
Revision Log

See <u>Important Reminder</u> at the end of this policy for important regulatory and legal information.

Description

This policy outlines the medical necessity criteria for continuous positive airway pressure (CPAP) for pediatrics. CPAP therapy is a noninvasive technique using an electronic device that provides single levels of air pressure via a nasal mask to prevent the collapse of the oropharyngeal walls and obstruction of airflow during sleep.

Policy/Criteria

- **I.** It is the policy of health plans affiliated with Centene Corporation[®] that Continuous Positive Airway Pressure (CPAP) for children 18 years of age or under is **medically necessary** when all of the following criteria apply:
 - **A.** Diagnosis of obstructive sleep apnea (OSA) or polysomnography demonstrates apnea-hypopnea index (AHI) \geq 1;
 - **B.** Surgical evaluation meets one of the following:
 - 1. Adenotonsillectomy has been unsuccessful in relieving OSA;
 - 2. Adenotonsillar tissue is minimal;
 - 3. Adenotonsillectomy is inappropriate based on OSA being attributable to another underlying cause (such as craniofacial anomaly);
 - 4. Adenotonsillectomy is contraindicated.

Background

Obstructive sleep apnea syndrome (OSAS) is a disorder of breathing in which prolonged partial upper airway obstruction and/or intermittent complete obstruction occurs during sleep disrupting normal ventilation and normal sleep patterns. The signs and symptoms of OSAS in children include habitual snoring (often with intermittent pauses, snorts, or gasps) with labored breathing, observed apneas, restless sleep, and daytime neurobehavioral problems. Nocturnal enuresis, diaphoresis, cyanosis, mouth breathing, nasal obstruction during wakefulness, adenoidal facies, and hyponasal speech may also be present. Daytime sleepiness is sometimes reported but hyperactivity can frequently occur. Severe complications of untreated OSAS in children include systemic hypertension, pulmonary hypertension, failure to thrive, cor pulmonale, and heart failure. Adenotonsillectomy remains the treatment of choice for most children with a strong clinical history of OSA or with OSA documented by polysomnography. Anatomically, the tonsils and adenoids represent the most common area of hypertrophy that contributes to airway obstruction. Numerous studies have documented improvement in snoring, OSA, enuresis, behavior, and growth following adenotonsillectomy. The parameters originally used to evaluate childhood polysomnograms were based on adult values. OSA in adults is defined as a respiratory pause lasting more than 10 seconds. Because of children's different physiology and higher baseline respiratory rate, clinically relevant apneas may not last this long. Apneas of three to four seconds' duration can be accompanied by desaturations. These findings have led to the development of separate guidelines for the interpretation of polysomnograms in children. In children, an apnea-hypopnea index greater than 1 (average: 0.1 to 0.5 events per hour) or a



CLINICAL POLICY Pediatric CPAP

minimum oxygen saturation of less than 92 percent (average: 96 percent \pm 2 percent) is considered abnormal. The apnea-hypopnea index is calculated as the average number of apneas and hypopneas per hour of sleep.²

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.

CPT®* Codes	Description
94660	CPAP -Continuous positive airway pressure ventilation, initiation and management

HCPCS ®*	Description		
Codes			
A7027	Nasal interface (mask or cannula type) used with positive airway pressure device,		
	with or without head strap		
A7028	Oral cushion for combination oral/nasal mask, replacement only, each		
A7029	Nasal pillows for combination oral/nasal mask, replacement only, pair		
A7030	Full face mask used with positive airway pressure device, each		
A7031	Face mask interface, replacement for full face mask, each		
A7032	Cushion for use on nasal mask interface, replacement only, each		
A7033	Pillow for use on nasal cannula type interface, replacement only, pair		
A7034	Nasal interface (mask or cannula type) used with positive airway pressure device,		
	with or without head strap		
A7035	Headgear used with positive airway pressure device		
A7036	Chinstrap used with positive airway pressure device		
A7037	Tubing used with positive airway pressure device		
A7038	Filter, disposable, used with positive airway pressure device		
A7039	Filter, non-disposable, used with positive airway pressure device		
A7044	Oral interface used with positive airway pressure device, each		
A7045	Exhalation port with or without swivel used with accessories for positive airway		
	devices, replacement only		
A7046	Water chamber for humidifier, used with positive airway pressure device,		
	replacement, each		
E0470	Respiratory assist device, bi-level pressure capability, without back-up rate feature,		
	used with noninvasive interface, e.g., nasal or facial mask (intermittent assist		
	device with continuous positive airway pressure device)		
E0471	Respiratory assist device, bi-level pressure capability, with back-up rate feature,		
	used with noninvasive interface, e.g., nasal or facial mask (intermittent assist		
	device with continuous positive airway pressure device)		



CLINICAL POLICY **Pediatric CPAP**

HCPCS ®* Codes	Description
E0472	Respiratory assist device, bi-level pressure capability, with back-up rate feature, used with invasive interface, e.g., tracheostomy tube (intermittent assist device with continuous positive airway pressure device)
E0561	Humidifier, non-heated, used with positive airway pressure device
E0562	Humidifier, heated, used with positive airway pressure device
E0601	Continuous airway pressure (CPAP) device

ICD-10-CM Diagnosis Codes that Support Coverage Criteria + Indicates a code(s) requiring an additional character

ICD-10-CM Code	Description (Inpatient Only)
5A09357	Extracorporeal Assistance & Performance; Physiological Systems;
	Assistance; Respiratory; less than 24 consecutive hours; ventilation;
	Continuous Positive Airway Pressure
5A09457	Extracorporeal Assistance & Performance; Physiological Systems;
	Assistance; Respiratory; 24-96 consecutive hours; ventilation; Continuous
	Positive Airway Pressure
5A09557	Extracorporeal Assistance & Performance; Physiological Systems;
	Assistance; Respiratory; Greater than 96 consecutive hours; ventilation;
	Continuous Positive Airway Pressure

ICD-10-CM Code	Description
G47.33	Obstructive sleep apnea (adult)(pediatric)
P28.3	Primary sleep apnea of newborn

Reviews, Revisions, and Approvals		Approval
		Date
Approved by MPC. Non-substantive change; added highlighted areas to		8/4/2011
more clearly define age of pediatric patient (see pp. 1-2). Previously		
defined on p. 2 as 0-12; now reads "less than 18".		
New template design approved by MPC.		12/1/2011
Approved by MPC. No changes.	6/7/2012	6/7/2012
Approved by MPC. No changes.	5/2/2013	5/2/2013
Approved by MPC. No changes.	4/3/2014	4/3/2014
Approved by MPC. No changes.	4/2/2015	4/2/2015
Approved by MPC. Clarified; CCG not limited only to a diagnosis of	12/3/2015	12/3/2015
OSA.		
Approved by MPC. No changes.	1/12/2017	1/12/2017
Approved by MPC. No changes.		12/7/2017
Approved by MPC. No changes.		11/1/2018
Approved by MPC. No changes.		11/7/2019



CLINICAL POLICY Pediatric CPAP

Reviews, Revisions, and Approvals	Date	Approval Date
Transferred to CNC template from HS-99. Removed statement that	09/20	09/20
other diagnoses would be considered in MD review, as this applies to all		
requests not meeting criteria. References reviewed and updated.		

References

- 1. American Academy of Pediatrics. Clinical practice guideline: diagnosis and management of childhood obstructive sleep apnea syndrome. Pediatrics. 2002;109(4):704 -712.
- Marcus CL, Brooks LJ, Draper KA, Gozal D., Halbower AC, Jones J, et al. Diagnosis and management of childhood obstructive sleep apnea syndrome. Pediatrics. 2012;130(3):576-84. doi: 10.1542/peds.2012-1671. http://pediatrics.aappublications.org/content/pediatrics/130/3/576.full.pdf. Accessed August 31, 2020.

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.

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CLINICAL POLICY Pediatric CPAP

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 <u>prior to</u> 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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