

Medical Policy



Pulse Oximeter for Home Use

▼ Description

Pulse oximetry is based on the principle that oxygen is carried in the bloodstream, bound primarily to hemoglobin. Hemoglobin absorbs light differently at various wavelengths. This absorption pattern differs depending upon the degree of oxygenation. The level of oxygenation is determined by measuring the absorption at two specific wavelengths. As the light passes through tissues, it has a pulsatile component. The oximeter measures the oxygen saturation of hemoglobin in arterial blood as well as the pulse rate in beats per minute. Pulse oximeters provide a rapid indication of an individual's level of oxygenation.

The pulse oximeter is noninvasive consisting of a sensor attached to an individual's finger, nose, ear or toe. It is linked to a processing unit which delivers a read-out indicating an individual's oxygen saturation.

▼ Policy

Pulse oximetry is considered reasonable and necessary for members meeting the coverage criteria below.

▼ Policy Guidelines

Coverage Criteria:

1. Must be ordered by the Member's treating physician.
2. Pulse oximetry is covered for members for short-term (intermittent) home use in any of the following conditions:
 - a) When weaning the member from home oxygen; or
 - b) When a change in the member's physical condition requires an adjustment in the liter flow of their home oxygen needs; or
 - c) To determine appropriate home oxygen liter flow for ambulation, exercise, or sleep; or
 - d) Infant (less than one year old) on home oxygen therapy.

3. Pulse oximetry for long-term home (continuous) use is reasonable and necessary for members with any of the following:
 - a) Mechanical ventilation
 - b) Infant with chronic lung disease (bronchopulmonary dysplasia)
 - c) Premature infant on active therapy for apnea

4. It may be considered an established option for newborns and children up to one year of age if one of the following criteria is met and a trained caregiver is available to respond to changes in the oxygen saturation:
 - a) Diagnosed with a chronic respiratory or cardiovascular disease requiring continuous oxygen supplementation
 - b) Oxygen need varies from day to day or per activity (e.g., feeding, sleeping, movement)
 - c) Medical need exists to maintain oxygen saturation within a narrow range
 - d) Infants who have experienced an apparent life-threatening event (ALTE)
 - e) Infants with tracheostomies or anatomical abnormalities that make them vulnerable to airway compromise
 - f) Infants with neurologic or metabolic disorders affecting respiratory control
 - g) Infants with chronic lung disease (bronchopulmonary dysplasia), especially those requiring supplemental oxygen, continuous airway pressure or mechanical ventilation
 - h) Infant with a craniofacial anomaly or a neuromuscular disorder which results in upper airway obstruction
 - i) Infant at high risk for hypoxic events

Coverage of home pulse oximetry for indications other than those listed above will be directed to the case review department for individual consideration.

Exclusions:

1. Prevention of sudden infant death syndrome (SIDS)
2. There is insufficient clinical evidence to support the use of pulse oximeters in the home for the following indications, therefore it is not reasonable and necessary for:
 - a. Asthma management
 - b. Screening or diagnostic testing for obstructive sleep apnea or other sleep disturbance
 - c. Continuous monitoring of Members with chronic lung disease, including COPD and pulmonary fibrosis
 - d. Predicting the need of adenotonsillectomy in children

▼ HCPCS Level II Codes and Description

E0445 Oximeter device for measuring blood oxygen levels non-invasively

A4606 Oxygen probe for use with oximeter device, replacement

▼ Important Note:

Northwood's Medical Policies are developed to assist Northwood in administering plan benefits and determining whether a particular DMEPOS product or service is reasonable and necessary. Equipment that is used primarily and customarily for a non-medical purpose is not considered durable medical equipment.

Coverage determinations are made on a case-by-case basis and are subject to all of the terms, conditions, limitations, and exclusions of the member's contract including medical necessity requirements.

The conclusion that a DMEPOS product or service is reasonable and necessary does not constitute coverage. The member's contract defines which DMEPOS product or service is covered, excluded or limited. The policies provide for clearly written, reasonable and current criteria that have been approved by Northwood's Medical Director.

The clinical criteria and medical policies provide guidelines for determining the medical necessity for specific DMEPOS products or services. In all cases, final benefit determinations are based on the applicable contract language. To the extent there are any conflicts between medical policy guidelines and applicable contract language, the contract language prevails. Medical policy is not intended to override the policy that defines the member's benefits, nor is it intended to dictate to providers how to direct care. Northwood Medical policies shall not be interpreted to limit the benefits afforded to Medicare or Medicaid members by law and regulation and Northwood will use the applicable state requirements to determine required quantity limit guidelines.

Northwood's policies do not constitute medical advice. Northwood does not provide or recommend treatment to members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.

▼ References

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Applicable URAC Standard

Core 8	Staff operational tools and support
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Change/Authorization History

Revision Number	Date	Description of Change	Prepared / Reviewed by	Approved by	Review Date:
A	11-20-06	Initial Release	Rosanne Brugnani	Ken Fasse	n/a
01		Annual Review- no changes	Susan Glomb	Ken Fasse	Dec.2008
02	12-22-09	Annual Review/ no changes	Susan Glomb	Ken Fasse	Dec.2009
03	12-03-10	Annual Review – No changes	Susan Glomb	Ken Fasse	Dec.2010
04	04-27-11	Updated to current policy	Susan Glomb	Dr.Almasri	
05	07-20-11	Added Important Note to all Medical Policies	Susan Glomb	Dr.Almasri	
06	12-13-11	Annual Review. Added References to Policy	Susan Glomb	Dr. Almasri	Dec. 2011
07	12-03-12	Annual review – no changes.	Susan Glomb	Dr. B. Almasri	Dec. 2012
08	12-18-13	Annual review. No changes.	Susan Glomb	Dr. B. Almasri	

09	12-1-14	Annual Review. No changes	Susan Glomb	Dr. B. Almasri	
10	12-03-15	Annual Review. No Changes.	Lisa Wojno	Dr. B. Almasri	December 2015
11	12-02-16	Annual Review. No Changes.	Lisa Wojno	Dr. B. Almasri	December 2016
12	12-11-17	Annual review. Revised to state use of home pulse oximetry considered experimental and investigational for predicting the need of adenotonsillectomy in children.	Carol Dimech	Dr. C. Lerchin	December 2017
13	12-17-18	Annual review. No changes.	Carol Dimech	Dr. C. Lerchin	December 2018