

Department of Origin: Integrated Healthcare Services	Effective Date: 09/13/22
Approved by: Medical Policy Quality Management Subcommittee	Date Approved: 09/13/22
Clinical Policy Document: Hyperbaric Oxygen Therapy	Replaces Effective Clinical Policy Dated: 09/14/21
Reference #: MC/G011	Page: 1 of 4

PURPOSE:

The intent of this clinical policy is to ensure services are medically necessary.

Please refer to the member's benefit document for specific information. To the extent there is any inconsistency between this policy and the terms of the member's benefit plan or certificate of coverage, the terms of the member's benefit plan document will govern.

POLICY:

Benefits must be available for health care services. Health care services must be ordered by a provider. Health care services must be medically necessary, applicable conservative treatments must have been tried, and the most cost-effective alternative must be requested for coverage consideration.

GUIDELINES:

Medical Necessity Criteria – Must satisfy any of the following: I – III, and none of IV

- I. *Primary treatment* for any of the following conditions: A - C
 - A. Decompression sickness
 - B. Acute carbon monoxide, smoke, or cyanide inhalation
 - C. Air or gas embolism

- II. *Adjunctive treatment* for any of the following conditions: A - K
 - A. Acute traumatic and ischemic syndromes (such as, but not limited to, crush injuries, compartment syndromes, and situations of vascular compromise)
 - B. Anemia, profound with severe blood loss- any of the following: 1 - 2
 1. Transfusion is not an option; or
 2. Transfusion must be delayed.
 - C. Compromised skin grafts or flaps - in locations with any of the following: 1 - 3
 1. Compromised vasculature; or
 2. Previous radiation therapy; or
 3. Previous graft failure.
 - D. Gas gangrene (clostridial myositis, myonecrosis) - any of the following: 1 - 2
 1. After failure of antibiotic treatment; or
 2. After failure of debridement.
 - E. Idiopathic Sudden Sensorineural Hearing Loss (greater than or equal to 30 dB) who present within 14 days of symptom onset
 - F. Necrotizing soft tissue infections - any of the following: 1 - 2
 1. After failure of antibiotic treatment; or
 2. After failure of debridement.

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- G. Osteomyelitis, chronic refractory – any of the following: 1 - 2
 - 1. After failure of antibiotic treatment; or
 - 2. After failure of debridement.

- H. Prophylactic pre- and post-treatment for individuals undergoing dental surgery (non-implant related) of an irradiated jaw

- I. Delayed radiation injury (radiation cystitis, soft tissue and bony necrosis [osteonecrosis])

- J. Thermal burns, acute (second or third degree) requiring inpatient hospitalization

- K. Initial treatment of non-healing diabetic wounds – all of the following: 1 - 4
 - 1. Lower extremity wound; and
 - 2. Wound classified as *Wagner grade 3* or higher; and
 - 3. Documentation of failure of conservative treatment where appropriate (such as, but not limited to, topical wound treatment [such as, but not limited to, saline, hydrogels, hydrocolloids, alginates], wound debridement, antibiotic treatment [if indicated], pressure reduction or offloading, and optimal glycemic control) with no assessable signs of healing after a minimum of a 30-day trial; and
 - 4. Authorize 24 treatments.

- III. Continued treatment of non-healing diabetic wounds found in the lower extremities- must have both of the following: A - B
 - A. Adherent to initial hyperbaric oxygen therapy; and
 - B. Assessable evidence of improvement after 24 treatments with hyperbaric oxygen therapy.

- IV. Contraindications - none of the following: A - E
 - A. Concurrent ear or sinus infection
 - B. Recent chest surgery
 - C. Severe chronic obstructive pulmonary disease (COPD)
 - D. Untreated pneumothorax
 - E. Medications – any of the following: 1 - 5
 - 1. Adriamycin
 - 2. Antabuse
 - 3. Bleomycin
 - 4. Platinol
 - 5. Sulfamylon

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EXCLUSIONS (not limited to):

Refer to member's Certificate of Coverage or Summary Plan Description

The following are considered investigative (see Investigative List): I - II

- I. Hyperbaric Oxygen Therapy for any of the following: A - B
 - A. Chronic brain disorders, such as, but not limited to cerebral palsy, chronic brain injury, multiple sclerosis, and stroke
 - B. Pervasive Developmental Disorders, such as, but not limited to, autism
- II. Topical hyperbaric oxygen therapy for treatment of wounds or ulcers

DEFINITIONS:

Actinomycosis:

Occurs when the bacteria *Actinomyces israelii*, which normally is a non-pathogenic bacteria found in the nose and throat, enters tissue through infection, surgery, or trauma. The abscess forms a red, hard lump and later drains out of the skin.

Adjunctive treatment:

Supporting or secondary medical care given to an individual for an illness or injury

Osteomyelitis:

An acute or chronic bone infection that may have been spread through the blood, infected skin, muscles, or tendons close to the affected bone

Pervasive Developmental Disorders:

A group of disorders that are characterized by social and communication skills that are developmentally delayed

Primary treatment:

First or initial medical care given to an individual for an illness or injury

Wagner classification system of wounds:

- Grade 0- absence of open lesion
- Grade I- ulcer is superficial, no penetration to deeper layers
- Grade II- Penetration of ulcer to tendon, bone, or joint
- Grade III- Penetration of lesion is > Grade II, presence of: abscess, osteomyelitis, pyarthrosis, plantar space abscess, or infection of the tendon and tendon sheaths
- Grade IV- Presence of wet/dry gangrene in toes or forefoot
- Grade V- Presence of gangrene in whole foot or majority of foot area that local procedures are not possible and amputation is indicated

BACKGROUND:

Hyperbaric Oxygen Therapy (HBOT) involves breathing 1 ½ - 3 times more pressurized than normal, pure oxygen in a special chamber (aka pressure chamber). This treatment allows the lungs to breathe in more pure oxygen than in normal air pressure. This then increases the blood's oxygenation which promotes the body's healing through stimulation of growth factor and stem cell production.

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Prior Authorization: Yes – per network provider agreement.

CODING:

CPT® or HCPCS

99183 Physician attendance and supervision of hyperbaric oxygen therapy, per session

G0277 Hyperbaric oxygen under pressure, full body chamber, per 30-minute interval

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REFERENCES:

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3. Centers for Medicare and Medicaid Services (CMS). National Coverage Determination (NCD) for hyperbaric oxygen therapy (20.29). 2017. Retrieved from <https://www.cms.gov/medicare-coverage-database/details/ncd-details.aspx?NCDId=12&ncdver=4&CoverageSelection=Both&ArticleType=All&PolicyType=Final&s=Minnesota&Keyword=hyperbaric+oxygen&KeywordLookUp=Title&KeywordSearchType=And&bc=gAAAACAAAAA&>. Accessed 05-16-22.
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We will:

- Provide free aids and services to people with disabilities to communicate effectively with us, such as:
 - Qualified sign language interpreters
 - Written information in other formats (large print, audio, accessible electronic formats, other formats)
- Provide free language services to people whose primary language is not English, such as:
 - Qualified interpreters
 - Information written in other languages

If *you* need these services, contact *us* at the phone number shown on the inside cover of this *COC*, *your* id card, or aspirushealthplan.com.

If *you* believe that *we* have failed to provide these services or discriminated in another way on the basis of race, color, national origin, age, disability, or sex, *you* can file a grievance with:

Nondiscrimination Grievance Coordinator
Aspirus Health Plan, Inc.
PO Box 1062
Minneapolis, MN 55440
Phone: 1. 866.631.5404 (TTY: 1.866.631.8597)
Fax: 763.847.4010
Email: customerservice@aspirushealthplan.com

You can file a grievance in person or by mail, fax, or email. If *you* need help filing a grievance, the Nondiscrimination Grievance Coordinator is available to help *you*.

You can also file a civil rights complaint with the U.S. Department of Health and Human Services, Office for Civil Rights, electronically through the Office for Civil Rights Complaint Portal, available at <https://ocrportal.hhs.gov/ocr/portal/lobby.jsf>, or by mail or phone at:

U.S. Department of Health and Human Services
200 Independence Avenue, SW
Room 509F, HHH Building
Washington, D.C. 20201
1-800-368-1019, 800-537-7697 (TDD)

Complaint forms are available at <http://www.hhs.gov/ocr/office/file/index.html>.

Language Assistance Services

Albanian: KUJDES: Nëse flitni shqip, për ju ka në dispozicion shërbime të asistencës gjuhësore, pa pagesë. Telefononi në 1.866.631.5404 (TTY: 1.866.631.8597).

تنبيه: إذا كنت تتحدث اللغة العربية، فإن خدمات المساعدة اللغوية 1.866.631.5404 (رقم هاتف الصم والبك : 1.866.631.8597) متاحة لك مجاناً. اتصل بن اعلى رقم الهاتف
Arabic

French: ATTENTION : Si vous parlez français, des services d'aide linguistique vous sont proposés gratuitement. Appelez le 1.866.631.5404 (ATS : 1.866.631.8597).

German: ACHTUNG: Wenn Sie Deutsch sprechen, stehen Ihnen kostenlos sprachliche Hilfsdienstleistungen zur Verfügung. Rufnummer: 1.866.631.5404 (TTY: 1.866.631.8597).

Hindi: _यान द_ : य_द आप िहंदी बोलते ह_ तो आपके िलए मु_त म_ भाषा सहायता सेवाएं उपल_ध ह_। 1-800-332-650 (TTY: 1.866.631.8597) पर कॉल कर_।

Hmong: LUS CEEV: Yog tias koj hais lus Hmoob, cov kev pab txog lus, muaj kev pab dawb rau koj. Hu rau 1.866.631.5404 (TTY: 1.866.631.8597).

Korean: 주의: 한국어를 사용하시는 경우, 언어 지원 서비스를 무료로 이용하실 수 있습니다. 1.866.631.5404 (TTY: 1.866.631.8597) 번으로 전화해 주십시오.

Polish: UWAGA: Jeżeli mówisz po polsku, możesz skorzystać z bezpłatnej pomocy językowej. Zadzwoń pod numer 1.866.631.5404 (TTY: 1.866.631.8597).

Russian: ВНИМАНИЕ: Если вы говорите на русском языке, то вам доступны бесплатные услуги перевода. Звоните 1.866.631.5404 (телетайп: 1.866.631.8597).

Spanish: ATENCIÓN: si habla español, tiene a su disposición servicios gratuitos de asistencia lingüística. Llame al 1.866.631.5404 (TTY: 1.866.631.8597).

Tagalog: PAUNAWA: Kung nagsasalita ka ng Tagalog, maaari kang gumamit ng mga serbisyo ng tulong sa wika nangwalang bayad. Tumawag sa 1.866.631.5404 (TTY: 1.866.631.8597).

Traditional Chinese: 注意：如果您使用繁體中文，您可以免費獲得語言援助服務。請致電 1.866.631.5404 (TTY : 1.866.631.8597)

Vietnamese: CHÚ Ý: Nếu bạn nói Tiếng Việt, có các dịch vụ hỗ trợ ngôn ngữ miễn phí dành cho bạn. Gọi số 1.866.631.5404 (TTY: 1.866.631.8597).

Pennsylvania Dutch: Wann du Deitsch (Pennsylvania German / Dutch) schwetzscht, kannscht du mitaus Koschte ebbergricke, ass dihr helft mit die englisch Schprooch. Ruf selli Nummer uff: Call 1.866.631.5404 (TTY: 1.866.631.8597).

Lao: ໂປດຊາບ: ຖ້າວ່າ ທ່ານເວົ້າພາສາ ລາວ, ການບໍລິການຊ່ວຍເຫຼືອດ້ານພາສາ, ໂດຍບໍ່ເສັຽຄ່າ, ແມ່ນມີພ້ອມໃຫ້ທ່ານ. ໂທສ 1.866.631.5404 (TTY: 1.866.631.8597).