

MEDICAL POLICY No. 91151-R8

HYPERBARIC OXYGEN THERAPY

Effective Date: September 1, 2024

Review Dates: 1/93, 12/99, 12/01, 11/02, 11/03, 11/04, 10/05, 10/06, 6/07, 6/08, 6/09, 6/10, 6/11, 6/12, 6/13, 5/14, 5/15, 5/16, 5/17, 8/17, 8/18, 5/19, 5/20, 5/21, 5/22, 5/23, 2/24, 8/24 Status: Current

Date of Origin: June 30, 1988

Summary of Changes

Addition: I.A.d – HBOT for the treatment of central retinal artery occlusion (CRAO) is medically necessary

I. POLICY/CRITERIA

- A. Non-wound related therapy
 - 1. Hyperbaric Oxygen Therapy (HBOT) is medically necessary for the following indications. It should not be a replacement for other standard successful therapeutic measures.
 - a. Actinomycosis, only as an adjunct to conventional therapy when the disease process is refractory to antibiotics and surgical treatment
 - b. Acute carbon monoxide intoxication
 - c. Acute peripheral artery insufficiency
 - d. Central retinal artery occlusion
 - e. Chronic refractory osteomyelitis, unresponsive to conventional medical and surgical management
 - f. Cyanide poisoning
 - g. Decompression illness
 - h. Gas embolism
 - i. Idiopathic sudden sensorineural hearing loss (ISSHL)
 - j. Osteoradionecrosis as an adjunct to conventional treatment
 - k. Soft tissue radionecrosis as an adjunct to conventional treatment
- B. Wound Therapy
 - 1. Initial therapy: The use of systemic HBOT is medically necessary for the following indications:
 - a. Preparation and preservation of compromised skin grafts (not for primary management of wounds)
 - i. Acute traumatic peripheral ischemia
 - ii. Crush injuries and suturing of severed limbs
 - iii. Gas gangrene
 - iv. Progressive necrotizing infections (necrotizing fasciitis)
 - 2. Adjunctive therapy: For the following indications HBOT is only medically necessary after there are no measurable signs of healing for at least 30-

days of treatment with standard wound therapy and must be <u>used with</u> standard wound therapy.

- a. Diabetic wounds of the lower extremities in patients who meet the following three criteria:
 - i. Patient has type 1 or type 2 diabetes and has a lower extremity wound due to diabetes;
 - ii. Patient has a wound classified as Wagner grade III or higher; and
- iii. Patient has failed an adequate course of standard wound therapy
- C. Topical Hyperbaric Oxygen Therapy is considered experimental and investigational. There is lack of evidence to demonstrate that topical hyperbaric oxygen therapy accelerates wound healing, whether alone or as an adjunct to standard wound care.

II. MEDICAL NECESSITY REVIEW

Prior authorization for certain drug, services, and procedures may be required. In these cases, providers will submit a prior authorization request demonstrating that the drug, service, or procedure is medically necessary. For more information, please refer to the <u>Priority Health Provider Manual</u>.

III. APPLICATION TO PRODUCTS

Coverage is subject to member's specific benefits. Group specific policy will supersede this policy when applicable.

- ***** HMO/EPO: This policy applies to insured HMO/EPO plans.
- ***** POS: *This policy applies to insured POS plans.*
- PPO: This policy applies to insured PPO plans. Consult individual plan documents as state mandated benefits may apply. If there is a conflict between this policy and a plan document, the provisions of the plan document will govern.
- ASO: For self-funded plans, consult individual plan documents. If there is a conflict between this policy and a self-funded plan document, the provisions of the plan document will govern.
- INDIVIDUAL: For individual policies, consult the individual insurance policy. If there is a conflict between this medical policy and the individual insurance policy document, the provisions of the individual insurance policy will govern.
- MEDICARE: Coverage is determined by the Centers for Medicare and Medicaid Services (CMS) and/or the Evidence of Coverage (EOC); if a coverage determination has not been adopted by CMS, this policy applies.
- MEDICAID/HEALTHY MICHIGAN PLAN: For Medicaid/Healthy Michigan Plan members, this policy will apply. Coverage is based on medical necessity criteria being met and the appropriate code(s) from the coding section of this policy being included on the Michigan Medicaid Fee Schedule located at: <u>http://www.michigan.gov/mdch/0,1607,7-132-2945 42542 42543 42546 42551-159815--,00.html</u>. If there is a discrepancy between this policy and the Michigan Medicaid Provider Manual located at: <u>http://www.michigan.gov/mdch/0,1607,7-132-2945 5100-87572--,00.html</u>, the Michigan Medicaid Provider Manual will govern. If there is a discrepancy or lack of guidance in the Michigan Medicaid Provider Manual, the Priority Health contract with

Michigan Medicaid will govern. For Medical Supplies/DME/Prosthetics and Orthotics, please refer to the Michigan Medicaid Fee Schedule to verify coverage.

IV. DESCRIPTION

Hyperbaric oxygen therapy is a technique of delivering higher pressures of oxygen to the tissues either systemically or topically. Scientifically supported hyperbaric treatments are usually delivered at pressures between 1.9 to 3.0 atmosphere absolute ATA. HBO₂ therapy is used for many medical conditions including decompression sickness, carbon monoxide poisoning, diabetic wounds, delayed radiation injury, necrotizing fasciitis, gas gangrene, refractory osteomyelitis, and several other conditions proven by peer-reviewed research Hyperbaric oxygen is a medical procedure requiring a physician's prescription and oversight. All patients must have their entire body placed within a hard sided hyperbaric chamber that meets the American Society of Mechanical Engineers and Pressure Vessels for Human Occupancy (ASME-PVHO-1) code and the National Fire Protection Agency (NFPA 99) code and standards for hyperbaric chambers, at a pressure of not less than 2.0 ATA (202.65 KPa) while breathing physician prescribed medical grade oxygen for an amount of time that is typically between 90-120 minutes per treatment. Medical grade oxygen (>99.0%) oxygen purity) is the only acceptable gas that should be used for therapeutic delivery of hyperbaric oxygen (UHMS, 2019).

In systemic hyperbaric oxygen therapy, the patient is entirely enclosed in a pressure chamber and breathes oxygen at a pressure greater than one atmosphere. This technique relies on the systemic circulation to deliver highly oxygenated blood to the target site, typically a wound, but can also be used to treat systemic illness such as air or gas embolism, central retinal artery occlusion, carbon monoxide poisoning, and gas gangrene.

Hyperbaric oxygen therapy for the treatment of central retinal artery occlusion (CRAO) is established. Chiabo and colleagues (2023) conducted a prospective, single-arm, noncontrolled study analyzing efficacy and safety of hyperbaric oxygen therapy monitored by fluorescein angiography in patients with retinal artery occlusion (RAO). The study included 31 patients enrolled between July 2016 and March 2022. All consecutive patients diagnosed with RAO within 7 days underwent visual acuity measurement, fluorescein angiography (FA), macular optical coherence tomography (OCT) and OCTangiography. They received two daily HBOT sessions (2.5 atmosphere absolute, 90 min) until revascularisation assessed by FA. Complete ophthalmic follow-up was scheduled at day 14, day 21 and at 1 month. The main outcome measure was a bestcorrected visual acuity (BCVA) improvement defined as a decrease ≥0.3 logMAR at 1 month. Retinal revascularisation was observed in 48.4% and 87.1% of patients at days 14 and 21, respectively. The mean BCVA on referral and at 1 month was 1.51 logMAR and 1.10 logMAR, respectively. Fifteen (48.4%) patients achieved the main outcome measure. Six (19.4%) patients experienced minor barotrauma that did not require HBOT discontinuation. The univariate analysis showed that antiplatelet-treated patients

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(p=0.044) and patients with a poor initial BCVA (p=0.008) were more likely to achieve a BCVA improvement. The authors concluded that in RAO patients monitored by FA until spontaneous revascularisation of the central retinal artery, HBOT was effective and safe.

In a retrospective study by Rozenberg and colleagues (2022), 121 patients were treated by HBOT and 23 patients received only standard of care (SOC). In the HBOT group, best-corrected visual acuity (BCVA) improved from 2.89 ± 0.98 logMAR at presentation to 2.15 ± 1.07 logMAR upon the end of HBOT (P < 0.001), while the SOC group had no significant improvement, from 3.04 ± 0.82 logMAR at presentation to 2.80 ± 1.50 logMAR (P = 0.24). With adjustment for age, gender, and the duration of symptoms, final BCVA in the HBOT group was significantly better compared to the control group (P = 0.023). Rates of patients achieving vision of 20/200 or better were similar between groups (17.4% vs. 19.8%, P = 0.523).

Hyperbaric oxygen therapy to maintain oxygenation of the retina pending reperfusion, has been used to preserve vision with mixed results in a small series of patients. Several case series suggest that hyperbaric oxygen may improve visual outcome in CRAO. However, its use is limited because it is labor intensive to deploy and has limited availability. Hyperbaric oxygen may provide benefit as a temporizing measure while definitive reperfusion is pursued, although it is not felt to promote reperfusion itself. It is associated with a low risk of systemic complications, and intracranial or systemic hemorrhage rates are not increased. One case report describes a successful outcome after concurrent use of hyperbaric oxygen and tPA for CRAO (UptoDate, 2023).

Medical Society Guidelines/Position Statements

<u>American Academy of Ophthalmology - Retinal and Ophthalmic Artery Occlusions</u> Preferred Practice Pattern (2020): "Initial treatment of an acute CRAO may include digital massage, anterior chamber paracentesis, vasodilation, breathing into a paper bag, carbogen therapy, topical pressure-lowering therapies, or hyperbaric chambers."

American Heart Association - Management of Central Retinal Artery Occlusion: A Scientific Statement From the American Heart Association (2021): "Emerging treatments, including HBO and intra-arterial tPA at early time points, show promise but require further study."

Undersea and Hyperbaric Medical Society – *Hyperbaric Medicine Indications Manual* (15th edition, 2023) – lists central retinal artery occlusion as an indication for HBOT

Topical hyperbaric oxygen therapy is a technique of delivering 100% oxygen in a limbencasing device directly to an open, moist wound at a pressure slightly higher than atmospheric pressure. It is hypothesized that the high concentrations of oxygen diffuse directly into the wound to increase local cellular oxygen tension to promote wound healing. There is lack of literature and evidence to support this hypothesis. No guidance currently recommends use of topical HBOT. Notably, the Undersea and Hyperbaric Medical Society (UHMS) cautions that while some topical oxygen delivery devices Page 4 of 10

may be described as "hyperbaric," they should not be assumed to be equivalent to monoplace or multiplace chamber (systemic) HBOT (UHMS, 2018).

Hyperbaric treatment at minimally elevated chamber pressures (mild hyperbaric oxygen) is unproven. Mild hyperbaric oxygen therapy is currently considered to be exposures delivered at pressures lower than 1.5 ATA. In "mild hyperbaric chambers", gas mixes well less than 95% O2 and delivered through breathing devices such as masks that do not provide a tight seal and by the nature of their construction allow mixing of gases with the ambient chamber air, further reducing the oxygen concentration. These treatments are available outside the setting of medical facilities, including physicians' offices, wellness centers, and health spas. Generally, these treatments are not physician-prescribed or supervised (UHMS, 2019).

V. CODING INFORMATION

Revenue code:

0413 Hyperbaric Oxygen Therapy for Outpatient

CPT/HCPCS Codes:

99183	Physician or other qualified health care professional attendance and
	supervision of hyperbaric oxygen therapy, per session
C0277	How when is any sender an annual fall he day should be used 20 minute interror

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

Not Covered:

A4575	Topical hyperbaric	oxvgen chamber.	disposable
11.070	represent my percente	ongen oneneo,	

E0446 Topical oxygen delivery system, not otherwise specified, includes all supplies and accessories

ICD-10 Codes that are covered for these procedures when criteria are met:

•	Acute carbon monoxide intoxication		
	T58.01xA – T58.94xS	Toxic effect of carbon monoxide	
•	Decompression illness		
	T70.29XA T70.29XS	Other effects of high altitude	
	T70.3XXA – T70.3XXS	Caisson disease [decompression sickness]	
	T70.9XXA – T70.9XXS	Effect of air pressure and water pressure, unspecified	
•	Gas embolism		
	T79.0XXA – T79.0XXS	Air embolism (traumatic)	
	T80.0XXA – T80.0XXS	Air embolism following infusion, transfusion and therapeutic injection	
•	Acute peripheral artery inst	ufficiency	

-	rieute periprierar artery mise	*includy
	170.231 - 170.249	Atherosclerosis of native arteries of leg with ulceration
	I70.331 – I70.349	Atherosclerosis of unspecified type of bypass graft(s) of
		leg with ulceration

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170.431 – 170.469	Atherosclerosis of autol with ulceration	logous vein bypass graft(s) of leg	
170.531 - 170.549	Atherosclerosis of nona graft(s) of leg with ulce	utologous biological bypass ration	
I70.631 – I70.669		biological bypass graft(s) of leg	
170.731 - 170.769		r type of bypass graft(s) of on/gangrene	
I74.2 - I74.5	Embolism and thrombo		
L97.101 – L97.929	Non-pressure chronic u		
• Chronic refractory osteom	-		
M86.30 - M86.69	Chronic osteomyelitis		
Osteoradionecrosis	······································	-1 4m - 4m - m 4	
Soft tissue radionecrosis a			
T66.XXXA - T66.XXXS M27.8	· · · · · · · · · · · · · · · · · · ·		
M27.8 L59.8	Other specified diseases	s of Jaws rs of the skin and subcutaneous	
LJ7.0	tissue related to radiatio		
L59.9		1 subcutaneous tissue related to	
	radiation, unspecified		
• Cyanide poisoning			
T57.3X1A – T57.3X4S		en cyanide, undetermined	
T65.0X1A – T65.0X4S	Toxic effect of cyanides	s, accidental (unintentional)	
• Actinomycosis A42.0 – A42.9	Actinomycocia		
A42.0 – A42.9 A43.0 – A43.9	Actinomycosis Nocardiosis		
B47.1	Actinomycetoma		
B47.9	Mycetoma, unspecified		
L08.1	Erythrasma		
• Preparation and preservati	-	rafts	
T86.820 – T86.829	Skin graft (allograft) rej		
• Acute traumatic periphera	Acute traumatic peripheral ischemia		
Crush injuries and suturin	•		
S07.0XXA – S07.9XXS	Crushing injury of head		
S17.0XXA – S17.9XXS	Crushing injury of neck		
S28.0XXA – S28.0XXS	Crushed injury of chest		
S35.511A – S35.513S	Injury of iliac artery		
S38.001A – S38.1XXS	external genitals	omen, lower back, pelvis and	
S45.001A - S45.299S	Injury of axillary or bra		
S47.1XXA – S47.9XXS	Crushing injury of shou	llder and upper arm	
S57.00XA – S57.82XS	Crushing injury of arm	t hand and fingers	
S67.00XA – S67.92XS S75.001A – S75.099S	Crushing injury of wris Injury of femoral artery		
	inger of remoter altery		

O Pric	ority Health ^M	EDICAL POLICY No. 91151-R8	Hyperbaric Oxygen Therapy
	S77.00XA - S77.22XS	Crushing injury of hip a	
	S85.001A - S85.189S	Injury of lower leg blood	
	S87.00XA – S87.82XS S97.00XA – S97.82XS	Crushing injury of lower Crushing injury of ankle	
	T87.0X1 – T87.1X9 T87.2	Complications peculiar t Complications of other r	to reattachment and amputation reattached body part
•	Progressive necrotizing inf M72.6	nfections (necrotizing fasciitis) Necrotizing fasciitis	
	M87.00 – M87.9	Idiopathic aseptic necros	sis of bone
	M90.50 – M90.59	Osteonecrosis in disease	
•	Gas gangrene		
	A48.0	Gas gangrene	
•	Diabetic wounds of the lov	ver extremities	
	E08.50 - E08.59		underlying condition with s
	E09.51 – E09.59	Drug or chemical induce circulatory complication	ed diabetes mellitus with
	E10.51 - E10.59		with circulatory complications
	E10.621	Type 1 diabetes mellitus	
	E10.622	Type 1 diabetes mellitus	
	E10.628	• •	with other skin complications
	E10.69	Type 1 diabetes mellitus complication	with other specified
	E11.51 –E11.59	Type 2 diabetes mellitus angiopathy without gang	with diabetic peripheral grene
	E11.621	Type 2 diabetes mellitus	e
	E11.622	Type 2 diabetes mellitus	
	E11.628	• •	with other skin complications
	E13.51 – E13.59	complications	mellitus with circulatory
	E13.621	Other specified diabetes	
	E13.622 E13.628	Other specified diabetes	mellitus with other skin ulcer mellitus with other skin
	L88	complications Pyoderma gangrenosum	
	L08.1	Erythrsma	
•	Irradiation cystitis		
	N30.40	Irradiation cystitis witho	out hematuria
	N30.41	Irradiation cystitis with	
•	Idiopathic sudden sensor	e	
	H91.20	Sudden idiopathic hearin	
	H91.21	Sudden idiopathic hearin	
	H91.22	Sudden idiopathic hearin	-
	Н92.23	Sudden idiopathic hearing	ig ioss, bilateral

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