

Hyperbaric Oxygen Therapy

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Approved By:	Highmark Health Options – Market Leadership
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Products:	Medicaid
Application:	All participating hospitals and providers
Page Number(s):	1 of 9

Disclaimer

Highmark Health Options medical policy is intended to serve only as a general reference resource regarding coverage for the services described. This policy does not constitute medical advice and is not intended to govern or otherwise influence medical decisions.

POLICY STATEMENT

Highmark Health Options may provide coverage under the medical-surgical benefits of the Company's Medicaid products for medically necessary hyperbaric oxygen therapy (HBOT) services for specific medical conditions.

This policy is designed to address medical necessity guidelines that are appropriate for the majority of individuals with a particular disease, illness or condition. Each person's unique clinical circumstances warrant individual consideration, based upon review of applicable medical records.

The qualifications of the policy will meet the standards of the National Committee for Quality Assurance (NCQA) and the Delaware Department of Health and Social Services (DHSS) and all applicable state and federal regulations.

DEFINITIONS

Highmark Health Options (HHO) – Managed care organization serving vulnerable populations that have complex needs and qualify for Medicaid. Highmark Health Options members include individuals and families with low income, expecting mothers, children, and people with disabilities. Members pay nothing to very little for their health coverage. Highmark Health Options currently services Delaware Medicaid: Delaware Healthy Children Program (DHCP) and Diamond State Health Plan Plus LTSS (DSHP Plus LTSS) members.

Hyperbaric Oxygen Therapy (HBO) – A procedure that delivers higher pressures of oxygen to the tissues.

POLICY POSITION

Prior authorization is required.

Hyperbaric oxygen (HBO) therapy is a treatment in which the entire body is exposed to oxygen under increased atmospheric pressure. Full-body HBO therapy occurs in a single or multiple chambers with 100% systemic oxygen that has a pressurization of at least 1.4 atmospheres.

HBO therapy may be considered medically necessary for ANY of the following:

- Actinomycosis refractory to antibiotics and surgical treatment; or
- Anemia with exceptional blood loss; or
- Carbon monoxide intoxication (acute); or
- Chronic refractory osteomyelitis; or
- Crush injuries and suturing of severed limbs, when loss of function, limb or life is threatened; or
- Cyanide poisoning; or
- Decompression illness; or
- Gas embolism; or
- Gas gangrene; or
- Inflammatory bowel disease (IBD) meeting ALL the following:
 - Severe fistulizing disease; and
 - Disease progression of Crohn's, ulcerative colitis, or pouchitis, despite being on maximal medical therapy indicated by use of at least two separate classes of a biological agent in combination with an immunomodulator, unless the individual is unable to tolerate a particular class of medication; and
 - Individual is established with an IBD specialist and the IBD specialist attests no other therapies will be beneficial; or
- Necrotizing fasciitis; or
- Osteoradionecrosis as an adjunct to conventional treatment; or
- Peripheral arterial insufficiency (acute); or
- Preparation and preservation of compromised skin grafts; or
 - This is not intended to cover preparation for an initial skin graft. Coverage is limited to attempts to preserve an existing skin graft which is compromised (i.e., showing signs of failure or rejection, dying tissue, etc.).
- Soft tissue radionecrosis as an adjunct to conventional treatment (e.g., radiation enteritis, cystitis, proctitis); or
- Traumatic peripheral ischemia (acute) when loss of function, limb, or life is threatened; or
- Prophylactic pre-and post-treatment for member undergoing dental surgery of a radiated jaw.

For any indication not listed in the coverage criteria above, HBO therapy is considered experimental/investigational and therefore noncovered. Scientific evidence does not support the efficacy and safety.

HBO therapy may be considered medically necessary for the treatment of diabetic wounds of the lower extremities in individuals who meet EITHER of the following criteria:

- Has Type I or Type II diabetes and has a lower extremity wound that is due to diabetes; or
- Has a wound classified as Wagner grade III or higher; and
- Has failed an adequate course of standard wound therapy:
 - The use of HBO therapy will be covered as an adjunctive therapy after there are no measurable signs of healing for greater than or equal to 30 days of treatment with standard wound therapy and must be used in addition to standard wound care. Failure to respond to standard wound care occurs when there are no measurable signs of healing for greater than or equal to 30 consecutive days. Wounds must be evaluated every 30 days during administration of HBO therapy. Continued treatment with HBO treatment is

not covered if measurable signs of healing have not been demonstrated within a 30-day treatment period.

Wagner Classification of Diabetic Foot Ulcer

Grade 0	No ulcer in a high-risk foot.
Grade 1	Superficial ulcer involving the full skin thickness but not underlying tissues.
Grade 2	Deep ulcer, penetrating down to ligaments and muscle, but no bone involvement or abscess formation.
Grade 3	Deep ulcer with cellulitis or abscess formation, often with osteomyelitis.
Grade 4	Localized gangrene.
Grade 5	Extensive gangrene involving the whole foot.

For any indication not listed in the coverage criteria above, HBO therapy is considered experimental/investigational and therefore noncovered. Scientific evidence does not support the efficacy and safety.

COVERED PROCEDURE CODES

CPT code	Description
99183	Physician Or Other Qualified Health Care Professional Attendance and Supervision Of Hyperbaric Oxygen Therapy, Per Session.

NONCOVERED PROCEDURE CODES

CPT code	Description
A4575	

Noncovered Services

Topical hyperbaric oxygen therapy is considered experimental/investigational and therefore noncovered because the safety and/or effectiveness of this service cannot be established by the available published peer-reviewed literature.

Diagnosis Codes

Codes				
A42.0	A42.1	A42.2	A42.9	A42.81
A42.82	A42.89	A48.0	B47.1	B47.9
B78.1	D50.0	D62	E08.52	E08.621
E08.622	E09.52	E09.621	E09.622	E10.52
E10.59	E10.69	E10.618	E10.620	E10.621
E10.622	E10.628	E10.630	E10.638	E11.52

E11.59	E11.69	E11.621	E11.622	E11.628
E11.630	E11.638	E13.51	E13.52	E13.59
E13.69	E13.618	E13.621	E13.622	E13.628
E13.630	E13.638	E83.2	I70.231	I70.232
I70.233	I70.234	I70.235	I70.238	I70.239
I70.241	I70.242	I70.243	I70.244	I70.245
I70.248	I70.249	I70.331	I70.332	I70.333
I70.334	I70.335	I70.338	I70.339	I70.341
I70.342	I70.343	I70.344	I70.345	I70.348
I70.349	I70.361	I70.362	I70.363	I70.368
I70.369	I70.431	I70.432	I70.433	I70.434
I70.435	I70.438	I70.439	I70.441	I70.442
I70.443	I70.444	I70.445	I70.448	I70.449
I70.461	I70.462	I70.463	I70.468	I70.469
I70.531	I70.532	I70.533	I70.534	I70.535
I70.538	I70.539	I70.541	I70.542	I70.543
I70.544	I70.545	I70.548	I70.549	I70.561
I70.562	I70.563	I70.568	I70.569	I70.631
I70.632	I70.633	I70.634	I70.635	I70.638
I70.639	I70.641	I70.642	I70.643	I70.644
I70.645	I70.648	I70.649	I70.731	I70.732
I70.733	I70.734	I70.735	I70.738	I70.739
I70.741	I70.742	I70.743	I70.744	I70.745
I70.748	I70.749	I73.1	I73.9	I73.00
I73.01	I73.81	I73.89	I74.2	I74.3
I74.4	I74.5	I79.8	I96	K50.013
K50.018	K50.019	K50.113	K50.118	K50.119
K50.813	K50.818	K50.819	K50.913	K50.918
K50.919	K51.513	K51.514	K51.518	K51.519
K51.811	K51.812	K51.813	K51.814	K51.818
K51.819	K51.911	K51.912	K51.913	K51.914
K51.918	K51.919	K52.0	K62.7	K91.850
K91.858	L08.0	L08.1	L08.9	L08.81
L08.89	L59.8	L59.9	L88	L92.8
L97.101	L97.102	L97.103	L97.104	L97.108
L97.109	L97.111	L97.112	L97.113	L97.114
L97.118	L97.119	L97.121	L97.122	L97.123
L97.124	L97.128	L97.129	L97.201	L97.202

L97.203	L97.204	L97.208	L97.209	L97.211
L97.212	L97.213	L97.214	L97.218	L97.219
L97.221	L97.222	L97.223	L97.224	L97.228
L97.229	L97.301	L97.302	L97.303	L97.304
L97.308	L97.309	L97.311	L97.312	L97.313
L97.314	L97.318	L97.319	L97.321	L97.322
L97.323	L97.324	L97.328	L97.329	L97.401
L97.402	L97.403	L97.404	L97.408	L97.409
L97.411	L97.412	L97.413	L97.414	L97.418
L97.419	L97.421	L97.422	L97.423	L97.424
L97.428	L97.429	L97.501	L97.502	L97.503
L97.504	L97.508	L97.509	L97.511	L97.512
L97.513	L97.514	L97.518	L97.519	L97.521
L97.522	L97.523	L97.524	L97.528	L97.529
L97.801	L97.802	L97.803	L97.804	L97.808
L97.809	L97.811	L97.812	L97.813	L97.814
L97.818	L97.819	L97.821	L97.822	L97.823
L97.824	L97.828	L97.829	L97.901	L97.902
L97.903	L97.904	L97.908	L97.909	L97.911
L97.912	L97.913	L97.914	L97.918	L97.919
L97.921	L97.922	L97.923	L97.924	L97.928
L97.929	L98.0	L98.3	L98.8	L98.418
L98.428	L98.498	M27.2	M27.8	M46.20
M46.21	M46.22	M46.23	M46.24	M46.25
M46.26	M46.27	M46.28	M72.6	M86.8X0
M86.8X1	M86.8X2	M86.8X3	M86.8X4	M86.8X5
M86.8X6	M86.8X7	M86.8X8	M86.8X9	M86.9
M86.00	M86.08	M86.09	M86.10	M86.18
M86.19	M86.20	M86.28	M86.29	M86.30
M86.38	M86.39	M86.40	M86.48	M86.49
M86.50	M86.58	M86.59	M86.60	M86.68
M86.69	M86.011	M86.012	M86.019	M86.021
M86.022	M86.029	M86.031	M86.032	M86.039
M86.041	M86.042	M86.049	M86.051	M86.052
M86.059	M86.061	M86.062	M86.069	M86.071
M86.072	M86.079	M86.111	M86.112	M86.119
M86.121	M86.122	M86.129	M86.131	M86.132
M86.139	M86.141	M86.142	M86.149	M86.151

M86.152	M86.159	M86.161	M86.162	M86.169
M86.171	M86.172	M86.179	M86.211	M86.212
M86.219	M86.221	M86.222	M86.229	M86.231
M86.232	M86.239	M86.241	M86.242	M86.249
M86.251	M86.252	M86.259	M86.261	M86.262
M86.269	M86.271	M86.272	M86.279	M86.311
M86.312	M86.319	M86.321	M86.322	M86.329
M86.331	M86.332	M86.339	M86.341	M86.342
M86.349	M86.351	M86.352	M86.359	M86.361
M86.362	M86.369	M86.371	M86.372	M86.379
M86.411	M86.412	M86.419	M86.421	M86.422
M86.429	M86.431	M86.432	M86.439	M86.441
M86.442	M86.449	M86.451	M86.452	M86.459
M86.461	M86.462	M86.469	M86.471	M86.472
M86.479	M86.511	M86.512	M86.519	M86.521
M86.522	M86.529	M86.531	M86.532	M86.539
M86.541	M86.542	M86.549	M86.551	M86.552
M86.559	M86.561	M86.562	M86.569	M86.571
M86.572	M86.579	M86.611	M86.612	M86.619
M86.621	M86.622	M86.629	M86.631	M86.632
M86.639	M86.641	M86.642	M86.649	M86.651
M86.652	M86.659	M86.661	M86.662	M86.669
M86.671	M86.672	M86.679	M90.80	M90.88
M90.89	M90.811	M90.812	M90.819	M90.821
M90.822	M90.829	M90.831	M90.832	M90.839
M90.841	M90.842	M90.849	M90.851	M90.852
M90.859	M90.861	M90.862	M90.869	M90.871
M90.872	M90.879	N30.40	N30.41	R57.1
R57.8	S35.511A	S35.511D	S35.512A	S35.512D
S35.513A	S35.513D	S45.001A	S45.001D	S45.002A
S45.002D	S45.009A	S45.009D	S45.011A	S45.011D
S45.012A	S45.012D	S45.019A	S45.019D	S45.091A
S45.091D	S45.092A	S45.092D	S45.099A	S45.099D
S45.101A	S45.101D	S45.102A	S45.102D	S45.109A
S45.109D	S45.111A	S45.111D	S45.112A	S45.112D
S45.119A	S45.119D	S45.191A	S45.191D	S45.192A
S45.192D	S45.199A	S45.199D	S45.201A	S45.201D
S45.202A	S45.202D	S45.209A	S45.209D	S45.211A

S45.211D	S45.212A	S45.212D	S45.219A	S45.219D
S45.291A	S45.291D	S45.292A	S45.292D	S45.299A
S45.299D	S47.1XXA	S47.1XXD	S47.2XXA	S47.2XXD
S47.9XXA	S47.9XXD	S57.00XA	S57.00XD	S57.01XA
S57.01XD	S57.02XA	S57.02XD	S57.80XA	S57.80XD
S57.81XA	S57.81XD	S57.82XA	S57.82XD	S67.00XA
S67.00XD	S67.01XA	S67.01XD	S67.02XA	S67.02XD
S67.10XA	S67.10XD	S67.20XA	S67.20XD	S67.21XA
S67.21XD	S67.22XA	S67.22XD	S67.30XA	S67.30XD
S67.31XA	S67.31XD	S67.32XA	S67.32XD	S67.40XA
S67.40XD	S67.41XA	S67.41XD	S67.42XA	S67.42XD
S67.90XA	S67.90XD	S67.91XA	S67.91XD	S67.92XA
S67.92XD	S67.190A	S67.190D	S67.191A	S67.191D
S67.192A	S67.192D	S67.193A	S67.193D	S67.194A
S67.194D	S67.195A	S67.195D	S67.196A	S67.196D
S67.197A	S67.197D	S67.198A	S67.198D	S75.001A
S75.001D	S75.002A	S75.002D	S75.009A	S75.009D
S75.011A	S75.011D	S75.012A	S75.012D	S75.019A
S75.019D	S75.021A	S75.021D	S75.022A	S75.022D
S75.029A	S75.029D	S75.091A	S75.091D	S75.092A
S75.092D	S75.099A	S75.099D	S77.00XA	S77.00XD
S77.01XA	S77.01XD	S77.02XA	S77.02XD	S77.10XA
S77.10XD	S77.11XA	S77.11XD	S77.12XA	S77.12XD
S77.20XA	S77.20XD	S77.21XA	S77.21XD	S77.22XA
S77.22XD	S85.001A	S85.001D	S85.002A	S85.002D
S85.009A	S85.009D	S85.011A	S85.011D	S85.012A
S85.012D	S85.019A	S85.019D	S85.091A	S85.091D
S85.092A	S85.092D	S85.099A	S85.099D	S85.501A
S85.502A	S85.509A	S85.511A	S85.512A	S85.519A
S85.591A	S85.592A	S85.599A	S87.00XA	S87.00XD
S87.01XA	S87.01XD	S87.02XA	S87.02XD	S87.80XA
S87.80XD	S87.81XA	S87.81XD	S87.82XA	S87.82XD
S97.00XA	S97.00XD	S97.01XA	S97.01XD	S97.02XA
S97.02XD	S97.80XA	S97.80XD	S97.81XA	S97.81XD
S97.82XA	S97.82XD	S97.101A	S97.101D	S97.102A
S97.102D	S97.109A	S97.109D	S97.111A	S97.111D
S97.112A	S97.112D	S97.119A	S97.119D	S97.121A
S97.121D	S97.122A	S97.122D	S97.129A	S97.129D

T57.3X1A	T57.3X1D	T57.3X1S	T57.3X2A	T57.3X2D
T57.3X2S	T57.3X3A	T57.3X3D	T57.3X3S	T57.3X4A
T57.3X4D	T57.3X4S	T58.2X1A	T58.2X1D	T58.2X1S
T58.2X2A	T58.2X2D	T58.2X2S	T58.2X3A	T58.2X3D
T58.2X3S	T58.2X4A	T58.2X4D	T58.2X4S	T58.8X1A
T58.8X1D	T58.8X1S	T58.8X2A	T58.8X2D	T58.8X2S
T58.8X3A	T58.8X3D	T58.8X3S	T58.8X4A	T58.8X4D
T58.8X4S	T58.01XA	T58.01XD	T58.01XS	T58.02XA
T58.02XD	T58.02XS	T58.03XA	T58.03XD	T58.04XA
T58.04XD	T58.11XA	T58.11XD	T58.12XA	T58.12XD
T58.12XS	T58.13XA	T58.13XD	T58.13XS	T58.14XA
T58.14XD	T58.14XS	T58.91XA	T58.91XD	T58.91XS
T58.92XA	T58.92XD	T58.92XS	T58.93XA	T58.93XD
T58.93XS	T58.94XA	T58.94XD	T58.94XS	T65.0X1A
T65.0X1D	T65.0X1S	T65.0X2A	T65.0X2D	T65.0X2S
T65.0X3A	T65.0X3D	T65.0X3S	T65.0X4A	T65.0X4D
T65.0X4S	T66.XXXA	T66.XXXD	T66.XXXS	T70.3XXA
T70.3XXD	T70.3XXS	T70.20XA	T70.20XD	T70.20XS
T70.29XA	T70.29XD	T70.29XS	T79.0XXA	T79.0XXD
T79.0XXS	T79.6XXD	T80.0XXA	T80.0XXD	T86.820
T86.821	T86.822	T86.828	T86.829	T87.0X1
T87.0X2	T87.0X9	T87.1X1	T87.1X2	T87.1X9
T87.2				

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POLICY UPDATE HISTORY

11/30/2022	Approved in Medical Policy Committee
12/2022	Approved in QI/UM