



## Topical Oxygen Wound Therapy (MEDICAID)

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### Definitions

Topical oxygen wound therapy (TOWT)	The controlled application of 100% oxygen directly to an open moist wound at slightly higher than atmospheric pressure. An oxygen concentrator is connected to a FDA approved O <sub>2</sub> boot and/or O <sub>2</sub> sacral device that are for onetime use and disposable, therefore reducing the risk of cross contamination.
Pressure ulcer staging in this guideline is as follows	<p>Defined as:</p> <ol style="list-style-type: none"> <li>1. Stage I — nonblanchable erythema of intact light toned skin or darker or violet hue in darkly pigmented skin.</li> <li>2. Stage II — partial thickness skin loss involving epidermis and/or dermis.</li> <li>3. Stage III — full thickness skin loss involving damage or necrosis of subcutaneous tissue that may extend down to, but not through, underlying fascia.</li> <li>4. Stage IV — full thickness skin loss with extensive destruction, tissue necrosis or damage to muscle, bone, or supporting structures.</li> </ol>
Wound healing	Defined as improvement occurring in either surface area or depth of the wound. Lack of improvement of a wound is defined as a lack of progress in these quantitative measurements.

### Guideline

Medicaid/Family Health Plus members are eligible for coverage of topical oxygen wound therapy when criteria 1 and any of criteria 2–6 are met:

1. A complete wound therapy program as applicable, depending on the type of wound, has been attempted prior to application of TOWT, including:
  - Documentation in the patient's medical record of evaluation, care, compliance and wound measurements by the treating physician, and
  - Application of dressings to maintain a moist wound environment, and
  - Debridement of necrotic tissue if present, and
  - Evaluation of and provision for adequate nutritional status, **and**

2. Stage IV pressure ulcers:
  - The patient has been appropriately turned and positioned, and
  - The patient has used a support surface for pressure ulcers on the posterior trunk or pelvis (not required if the ulcer is not on the trunk or pelvis), and
  - The patient's moisture and incontinence have been appropriately managed, **or**
3. Neuropathic (for example, diabetic) ulcers:
  - The patient has been on a comprehensive diabetic management program, and
  - Reduction in pressure on a foot ulcer has been accomplished with appropriate modalities, **or**
4. Venous insufficiency ulcers:
  - Compression bandages and/or garments have been consistently applied, and
  - Leg elevation and ambulation have been encouraged, **or**
5. For non-healing surgically created or traumatic wounds, documentation of medical necessity for accelerated formation of granulated tissue as a result of which cannot be achieved by other topical wound treatments, **or**
6. A chronic (being present for at least 30 days) ulcer of mixed etiology.

### **Limitations/Exclusions**

TOWT is considered investigational, not medically necessary, medically contraindicated and not covered for all other indications, including but not limited to, the following:

1. The presence in the wound of necrotic tissue with eschar, if debridement is not attempted.
2. Untreated osteomyelitis within the vicinity of the wound.
3. Cancer present in the wound.
4. The presence of a fistula to an organ or body cavity within the vicinity of the wound.
5. Stage I, II or III pressure ulcers.

### **Documentation, Preauthorization and Coding Requirements**

Department regulations and policies regarding ordering and provision of DME are available at <http://www.nyhealth.gov/nysdoh/phforum/nycrr18.htm> and in the DME Provider Manual at [www.emedny.org/ProviderManuals/DME/index.html](http://www.emedny.org/ProviderManuals/DME/index.html). Specifically:

1. Payment for E1390 includes all necessary equipment, delivery, maintenance and repair costs, arts, supplies and services for equipment set-up, maintenance and replacement of worn essential accessories and parts. Payment for A4575 includes the dressing set and canister set used in conjunction with E1390 and contains all necessary components, including but not limited to an occlusive dressing which creates a seal around the wound site for maintaining the desired concentration of oxygen at the wound. Payment for E1390 and A4575 is considered payment in full for TOWT.
2. An initial electronic prior authorization (DVS) will be granted for A4575 for a maximum of 16 days in a 28 day period, as treatment is 4 days on, 3 days off. The provider should request authorization once for the number of days (units) based on the written order. Prior approval is required for treatment exceeding 4 weeks. E1390 is not prior authorized and is billed monthly.
3. TOWT should be attempted first in a hospital or another health care facility prior to discharge to the home setting. In these continuing cases, documentation should reflect patient compliance and pain management during application of TOWT. If TOWT has not been attempted, providers must obtain an

initial prior authorization of two weeks (8 days or units) only. Prior approval may then be requested for an extension of the treatment.

4. Documentation of previous treatment regimens and how the patient meets the coverage criteria above must be maintained in the patient's medical record and available upon request. This documentation must include dressing types and frequency of change, changes in wound conditions (including precise length, width and surface area measurements), quantity of exudates, presence of granulation and necrotic tissue, concurrent measures being addressed relevant to wound therapy (debridement, nutritional concerns, support surfaces in use, positioning, incontinence control, etc.) and training received by the patient/family in the application of the occlusive dressing to the wound site and proper hook up of the oxygen to the dressing set.
5. When an extension of treatment is requested, the following documentation must be submitted: how the patient meets the coverage criteria, status of wound healing, weekly quantitative measurements of wound characteristics, wound length, width and depth (surface area) and amount of wound exudate (drainage) and patient compliance with the treatment plan. If detailed documentation is insufficient or if any measurable degree of wound healing has failed to occur, prior approval beyond the initial approved period of service will not be granted.
6. Upon completion of treatment, documentation regarding the outcome of treatment with TOWT must be submitted to the Plan.
7. All services must be supported by the original, signed written order specific to the item being requested from a qualified licensed prescriber.
8. All providers are responsible for assuring that adequate and less costly alternatives for services have been explored and, where appropriate and cost effective, are provided.

### Applicable Procedure Codes

A4575	Topical hyperbaric oxygen chamber, disposable
E1390	Oxygen concentrator, single delivery port, capable of delivering 85 percent or greater oxygen concentration at the prescribed flow rate

### Applicable ICD-10 Diagnosis Codes

E08.621	Diabetes mellitus due to underlying condition with foot ulcer
E08.622	Diabetes mellitus due to underlying condition with other skin ulcer
E08.628	Diabetes mellitus due to underlying condition with other skin complications
E09.621	Drug or chemical induced diabetes mellitus with foot ulcer
E09.622	Drug or chemical induced diabetes mellitus with other skin ulcer
E09.628	Drug or chemical induced diabetes mellitus with other skin complications
E10.621	Type 1 diabetes mellitus with foot ulcer
E10.622	Type 1 diabetes mellitus with other skin ulcer
E11.621	Type 2 diabetes mellitus with foot ulcer
E11.622	Type 2 diabetes mellitus with other skin ulcer
E13.621	Other specified diabetes mellitus with foot ulcer
E13.622	Other specified diabetes mellitus with other skin ulcer
I83.001	Varicose veins of unspecified lower extremity with ulcer of thigh
I83.002	Varicose veins of unspecified lower extremity with ulcer of calf

I83.003	Varicose veins of unspecified lower extremity with ulcer of ankle
I83.004	Varicose veins of unspecified lower extremity with ulcer of heel and midfoot
I83.005	Varicose veins of unspecified lower extremity with ulcer other part of foot
I83.008	Varicose veins of unspecified lower extremity with ulcer other part of lower leg
I83.009	Varicose veins of unspecified lower extremity with ulcer of unspecified site
I83.011	Varicose veins of right lower extremity with ulcer of thigh
I83.012	Varicose veins of right lower extremity with ulcer of calf
I83.013	Varicose veins of right lower extremity with ulcer of ankle
I83.014	Varicose veins of right lower extremity with ulcer of heel and midfoot
I83.015	Varicose veins of right lower extremity with ulcer other part of foot
I83.018	Varicose veins of right lower extremity with ulcer other part of lower leg
I83.019	Varicose veins of right lower extremity with ulcer of unspecified site
I83.021	Varicose veins of left lower extremity with ulcer of thigh
I83.022	Varicose veins of left lower extremity with ulcer of calf
I83.023	Varicose veins of left lower extremity with ulcer of ankle
I83.024	Varicose veins of left lower extremity with ulcer of heel and midfoot
I83.025	Varicose veins of left lower extremity with ulcer other part of foot
I83.028	Varicose veins of left lower extremity with ulcer other part of lower leg
I83.029	Varicose veins of left lower extremity with ulcer of unspecified site
I83.201	Varicose veins of unspecified lower extremity with both ulcer of thigh and inflammation
I83.202	Varicose veins of unspecified lower extremity with both ulcer of calf and inflammation
I83.203	Varicose veins of unspecified lower extremity with both ulcer of ankle and inflammation
I83.204	Varicose veins of unspecified lower extremity with both ulcer of heel and midfoot and inflammation
I83.205	Varicose veins of unspecified lower extremity with both ulcer other part of foot and inflammation
I83.208	Varicose veins of unspecified lower extremity with both ulcer of other part of lower extremity and inflammation
I83.209	Varicose veins of unspecified lower extremity with both ulcer of unspecified site and inflammation
I83.211	Varicose veins of right lower extremity with both ulcer of thigh and inflammation
I83.212	Varicose veins of right lower extremity with both ulcer of calf and inflammation
I83.213	Varicose veins of right lower extremity with both ulcer of ankle and inflammation
I83.214	Varicose veins of right lower extremity with both ulcer of heel and midfoot and inflammation
I83.215	Varicose veins of right lower extremity with both ulcer other part of foot and inflammation
I83.218	Varicose veins of right lower extremity with both ulcer of other part of lower extremity and inflammation
I83.219	Varicose veins of right lower extremity with both ulcer of unspecified site and inflammation
I83.221	Varicose veins of left lower extremity with both ulcer of thigh and inflammation
I83.222	Varicose veins of left lower extremity with both ulcer of calf and inflammation
I83.223	Varicose veins of left lower extremity with both ulcer of ankle and inflammation
I83.224	Varicose veins of left lower extremity with both ulcer of heel and midfoot and inflammation
I83.225	Varicose veins of left lower extremity with both ulcer other part of foot and inflammation
I83.228	Varicose veins of left lower extremity with both ulcer of other part of lower extremity and inflammation
I83.229	Varicose veins of left lower extremity with both ulcer of unspecified site and inflammation
I87.011	Postthrombotic syndrome with ulcer of right lower extremity
I87.012	Postthrombotic syndrome with ulcer of left lower extremity
I87.013	Postthrombotic syndrome with ulcer of bilateral lower extremity
I87.019	Postthrombotic syndrome with ulcer of unspecified lower extremity

I87.031	Postthrombotic syndrome with ulcer and inflammation of right lower extremity
I87.032	Postthrombotic syndrome with ulcer and inflammation of left lower extremity
I87.033	Postthrombotic syndrome with ulcer and inflammation of bilateral lower extremity
I87.039	Postthrombotic syndrome with ulcer and inflammation of unspecified lower extremity
I87.2	Venous insufficiency (chronic) (peripheral)
I87.311	Chronic venous hypertension (idiopathic) with ulcer of right lower extremity
I87.312	Chronic venous hypertension (idiopathic) with ulcer of left lower extremity
I87.313	Chronic venous hypertension (idiopathic) with ulcer of bilateral lower extremity
I87.319	Chronic venous hypertension (idiopathic) with ulcer of unspecified lower extremity
I87.331	Chronic venous hypertension (idiopathic) with ulcer and inflammation of right lower extremity
I87.332	Chronic venous hypertension (idiopathic) with ulcer and inflammation of left lower extremity
I87.333	Chronic venous hypertension (idiopathic) with ulcer and inflammation of bilateral lower extremity
I87.339	Chronic venous hypertension (idiopathic) with ulcer and inflammation of unspecified lower extremity
L59.9	Disorder of the skin and subcutaneous tissue related to radiation, unspecified
L89.004	Pressure ulcer of unspecified elbow, stage 4
L89.014	Pressure ulcer of right elbow, stage 4
L89.024	Pressure ulcer of left elbow, stage 4
L89.104	Pressure ulcer of unspecified part of back, stage 4
L89.114	Pressure ulcer of right upper back, stage 4
L89.124	Pressure ulcer of left upper back, stage 4
L89.134	Pressure ulcer of right lower back, stage 4
L89.144	Pressure ulcer of left lower back, stage 4
L89.154	Pressure ulcer of sacral region, stage 4
L89.204	Pressure ulcer of unspecified hip, stage 4
L89.214	Pressure ulcer of right hip, stage 4
L89.224	Pressure ulcer of left hip, stage 4
L89.304	Pressure ulcer of unspecified buttock, stage 4
L89.314	Pressure ulcer of right buttock, stage 4
L89.324	Pressure ulcer of left buttock, stage 4
L89.44	Pressure ulcer of contiguous site of back, buttock and hip, stage 4
L89.504	Pressure ulcer of unspecified ankle, stage 4
L89.514	Pressure ulcer of right ankle, stage 4
L89.524	Pressure ulcer of left ankle, stage 4
L89.604	Pressure ulcer of unspecified heel, stage 4
L89.614	Pressure ulcer of right heel, stage 4
L89.624	Pressure ulcer of left heel, stage 4
L89.814	Pressure ulcer of head, stage 4
L89.894	Pressure ulcer of other site, stage 4
L89.94	Pressure ulcer of unspecified site, stage 4
L97.101	Non-pressure chronic ulcer of unspecified thigh limited to breakdown of skin
L97.102	Non-pressure chronic ulcer of unspecified thigh with fat layer exposed
L97.103	Non-pressure chronic ulcer of unspecified thigh with necrosis of muscle
L97.104	Non-pressure chronic ulcer of unspecified thigh with necrosis of bone
L97.109	Non-pressure chronic ulcer of unspecified thigh with unspecified severity

L97.111	Non-pressure chronic ulcer of right thigh limited to breakdown of skin
L97.112	Non-pressure chronic ulcer of right thigh with fat layer exposed
L97.113	Non-pressure chronic ulcer of right thigh with necrosis of muscle
L97.114	Non-pressure chronic ulcer of right thigh with necrosis of bone
L97.119	Non-pressure chronic ulcer of right thigh with unspecified severity
L97.121	Non-pressure chronic ulcer of left thigh limited to breakdown of skin
L97.122	Non-pressure chronic ulcer of left thigh with fat layer exposed
L97.123	Non-pressure chronic ulcer of left thigh with necrosis of muscle
L97.124	Non-pressure chronic ulcer of left thigh with necrosis of bone
L97.129	Non-pressure chronic ulcer of left thigh with unspecified severity
L97.201	Non-pressure chronic ulcer of unspecified calf limited to breakdown of skin
L97.202	Non-pressure chronic ulcer of unspecified calf with fat layer exposed
L97.203	Non-pressure chronic ulcer of unspecified calf with necrosis of muscle
L97.204	Non-pressure chronic ulcer of unspecified calf with necrosis of bone
L97.209	Non-pressure chronic ulcer of unspecified calf with unspecified severity
L97.211	Non-pressure chronic ulcer of right calf limited to breakdown of skin
L97.212	Non-pressure chronic ulcer of right calf with fat layer exposed
L97.213	Non-pressure chronic ulcer of right calf with necrosis of muscle
L97.214	Non-pressure chronic ulcer of right calf with necrosis of bone
L97.219	Non-pressure chronic ulcer of right calf with unspecified severity
L97.221	Non-pressure chronic ulcer of left calf limited to breakdown of skin
L97.222	Non-pressure chronic ulcer of left calf with fat layer exposed
L97.223	Non-pressure chronic ulcer of left calf with necrosis of muscle
L97.224	Non-pressure chronic ulcer of left calf with necrosis of bone
L97.229	Non-pressure chronic ulcer of left calf with unspecified severity
L97.301	Non-pressure chronic ulcer of unspecified ankle limited to breakdown of skin
L97.302	Non-pressure chronic ulcer of unspecified ankle with fat layer exposed
L97.303	Non-pressure chronic ulcer of unspecified ankle with necrosis of muscle
L97.304	Non-pressure chronic ulcer of unspecified ankle with necrosis of bone
L97.309	Non-pressure chronic ulcer of unspecified ankle with unspecified severity
L97.311	Non-pressure chronic ulcer of right ankle limited to breakdown of skin
L97.312	Non-pressure chronic ulcer of right ankle with fat layer exposed
L97.313	Non-pressure chronic ulcer of right ankle with necrosis of muscle
L97.314	Non-pressure chronic ulcer of right ankle with necrosis of bone
L97.319	Non-pressure chronic ulcer of right ankle with unspecified severity
L97.321	Non-pressure chronic ulcer of left ankle limited to breakdown of skin
L97.322	Non-pressure chronic ulcer of left ankle with fat layer exposed
L97.323	Non-pressure chronic ulcer of left ankle with necrosis of muscle
L97.324	Non-pressure chronic ulcer of left ankle with necrosis of bone
L97.329	Non-pressure chronic ulcer of left ankle with unspecified severity
L97.401	Non-pressure chronic ulcer of unspecified heel and midfoot limited to breakdown of skin
L97.402	Non-pressure chronic ulcer of unspecified heel and midfoot with fat layer exposed
L97.403	Non-pressure chronic ulcer of unspecified heel and midfoot with necrosis of muscle
L97.404	Non-pressure chronic ulcer of unspecified heel and midfoot with necrosis of bone

L97.409	Non-pressure chronic ulcer of unspecified heel and midfoot with unspecified severity
L97.411	Non-pressure chronic ulcer of right heel and midfoot limited to breakdown of skin
L97.412	Non-pressure chronic ulcer of right heel and midfoot with fat layer exposed
L97.413	Non-pressure chronic ulcer of right heel and midfoot with necrosis of muscle
L97.414	Non-pressure chronic ulcer of right heel and midfoot with necrosis of bone
L97.419	Non-pressure chronic ulcer of right heel and midfoot with unspecified severity
L97.421	Non-pressure chronic ulcer of left heel and midfoot limited to breakdown of skin
L97.422	Non-pressure chronic ulcer of left heel and midfoot with fat layer exposed
L97.423	Non-pressure chronic ulcer of left heel and midfoot with necrosis of muscle
L97.424	Non-pressure chronic ulcer of left heel and midfoot with necrosis of bone
L97.429	Non-pressure chronic ulcer of left heel and midfoot with unspecified severity
L97.501	Non-pressure chronic ulcer of other part of unspecified foot limited to breakdown of skin
L97.502	Non-pressure chronic ulcer of other part of unspecified foot with fat layer exposed
L97.503	Non-pressure chronic ulcer of other part of unspecified foot with necrosis of muscle
L97.504	Non-pressure chronic ulcer of other part of unspecified foot with necrosis of bone
L97.509	Non-pressure chronic ulcer of other part of unspecified foot with unspecified severity
L97.511	Non-pressure chronic ulcer of other part of right foot limited to breakdown of skin
L97.512	Non-pressure chronic ulcer of other part of right foot with fat layer exposed
L97.513	Non-pressure chronic ulcer of other part of right foot with necrosis of muscle
L97.514	Non-pressure chronic ulcer of other part of right foot with necrosis of bone
L97.519	Non-pressure chronic ulcer of other part of right foot with unspecified severity
L97.521	Non-pressure chronic ulcer of other part of left foot limited to breakdown of skin
L97.522	Non-pressure chronic ulcer of other part of left foot with fat layer exposed
L97.523	Non-pressure chronic ulcer of other part of left foot with necrosis of muscle
L97.524	Non-pressure chronic ulcer of other part of left foot with necrosis of bone
L97.529	Non-pressure chronic ulcer of other part of left foot with unspecified severity
L97.801	Non-pressure chronic ulcer of other part of unspecified lower leg limited to breakdown of skin
L97.802	Non-pressure chronic ulcer of other part of unspecified lower leg with fat layer exposed
L97.803	Non-pressure chronic ulcer of other part of unspecified lower leg with necrosis of muscle
L97.804	Non-pressure chronic ulcer of other part of unspecified lower leg with necrosis of bone
L97.809	Non-pressure chronic ulcer of other part of unspecified lower leg with unspecified severity
L97.811	Non-pressure chronic ulcer of other part of right lower leg limited to breakdown of skin
L97.812	Non-pressure chronic ulcer of other part of right lower leg with fat layer exposed
L97.813	Non-pressure chronic ulcer of other part of right lower leg with necrosis of muscle
L97.814	Non-pressure chronic ulcer of other part of right lower leg with necrosis of bone
L97.819	Non-pressure chronic ulcer of other part of right lower leg with unspecified severity
L97.821	Non-pressure chronic ulcer of other part of left lower leg limited to breakdown of skin
L97.822	Non-pressure chronic ulcer of other part of left lower leg with fat layer exposed
L97.823	Non-pressure chronic ulcer of other part of left lower leg with necrosis of muscle
L97.824	Non-pressure chronic ulcer of other part of left lower leg with necrosis of bone
L97.829	Non-pressure chronic ulcer of other part of left lower leg with unspecified severity
L97.901	Non-pressure chronic ulcer of unspecified part of unspecified lower leg limited to breakdown of skin
L97.902	Non-pressure chronic ulcer of unspecified part of unspecified lower leg with fat layer exposed
L97.903	Non-pressure chronic ulcer of unspecified part of unspecified lower leg with necrosis of muscle



L97.904	Non-pressure chronic ulcer of unspecified part of unspecified lower leg with necrosis of bone
L97.909	Non-pressure chronic ulcer of unspecified part of unspecified lower leg with unspecified severity
L97.911	Non-pressure chronic ulcer of unspecified part of right lower leg limited to breakdown of skin
L97.912	Non-pressure chronic ulcer of unspecified part of right lower leg with fat layer exposed
L97.913	Non-pressure chronic ulcer of unspecified part of right lower leg with necrosis of muscle
L97.914	Non-pressure chronic ulcer of unspecified part of right lower leg with necrosis of bone
L97.919	Non-pressure chronic ulcer of unspecified part of right lower leg with unspecified severity
L97.921	Non-pressure chronic ulcer of unspecified part of left lower leg limited to breakdown of skin
L97.922	Non-pressure chronic ulcer of unspecified part of left lower leg with fat layer exposed
L97.923	Non-pressure chronic ulcer of unspecified part of left lower leg with necrosis of muscle
L97.924	Non-pressure chronic ulcer of unspecified part of left lower leg with necrosis of bone
L97.929	Non-pressure chronic ulcer of unspecified part of left lower leg with unspecified severity
L98.411	Non-pressure chronic ulcer of buttock limited to breakdown of skin
L98.412	Non-pressure chronic ulcer of buttock with fat layer exposed
L98.413	Non-pressure chronic ulcer of buttock with necrosis of muscle
L98.414	Non-pressure chronic ulcer of buttock with necrosis of bone
L98.419	Non-pressure chronic ulcer of buttock with unspecified severity
L98.421	Non-pressure chronic ulcer of back limited to breakdown of skin
L98.422	Non-pressure chronic ulcer of back with fat layer exposed
L98.423	Non-pressure chronic ulcer of back with necrosis of muscle
L98.424	Non-pressure chronic ulcer of back with necrosis of bone
L98.429	Non-pressure chronic ulcer of back with unspecified severity
L98.491	Non-pressure chronic ulcer of skin of other sites limited to breakdown of skin
L98.492	Non-pressure chronic ulcer of skin of other sites with fat layer exposed
L98.493	Non-pressure chronic ulcer of skin of other sites with necrosis of muscle
L98.494	Non-pressure chronic ulcer of skin of other sites with necrosis of bone
L98.499	Non-pressure chronic ulcer of skin of other sites with unspecified severity

## References

New York State Medicaid Topical Oxygen Wound Therapy Guidelines. March 2008. Available at:

[http://www.emedny.org/ProviderManuals/DME/PDFS/2008-](http://www.emedny.org/ProviderManuals/DME/PDFS/2008-4_New%20York%20State%20Medicaid%20Topical%20Oxygen%20Wound%20Therapy%20Guidelines.pdf)

[4\\_New%20York%20State%20Medicaid%20Topical%20Oxygen%20Wound%20Therapy%20Guidelines.pdf](http://www.emedny.org/ProviderManuals/DME/PDFS/2008-4_New%20York%20State%20Medicaid%20Topical%20Oxygen%20Wound%20Therapy%20Guidelines.pdf). Accessed September 12, 2016.

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