

# High Frequency Chest Wall Oscillation Devices and Intrapulmonary Percussive Ventilators

POLICY NUMBER	LAST REVIEW
MG.MM.DM.09cC4v2	September 8, 2024

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EmblemHealth established the clinical review criteria based upon a review of currently available clinical information (including clinical outcome studies in the peer reviewed published medical literature, regulatory status of the technology, evidence-based guidelines of public health and health research agencies, evidence-based guidelines and positions of leading national health professional organizations, views of physicians practicing in relevant clinical areas, and other relevant factors). EmblemHealth expressly reserves the right to revise these conclusions as clinical information changes and welcomes further relevant information. Each benefit program defines which services are covered. The conclusion that a particular service or supply is medically necessary does not constitute a representation or warranty that this service or supply is covered and/or paid for by EmblemHealth, as some programs exclude coverage for services or supplies that EmblemHealth considers medically necessary.

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#### Definition

A high frequency chest wall oscillation device (HFCWOD) is an airway clearance device consisting of an inflatable vest connected by tubes to a small air-pulse generator.

#### Guideline

Members are eligible for coverage of an HFCWOD when any of the following conditions/diagnoses are applicable:

- 1. Acid maltase deficiency
- 2. Amyotrophic lateral sclerosis
- 3. Anterior horn cell diseases
- 4. Bronchiectasis
- 5. Cystic fibrosis
- 6. Hereditary muscular dystrophy
- 7. Multiple sclerosis
- 8. Myotonic disorders
- 9. Other myopathies

- 10. Paralysis of the diaphragm
- 11. Post-polio
- 12. Quadriplegia
- 13. Any neuromuscular disease disorder with ineffective cough
- 14. Members with a gastrostomy tube and risk of aspiration if manual chest physical therapy (PT) is indicated on a case-by-case basis when other methods of daily chest PT have been tried and failed

Well-documented failure of standard treatments to adequately mobilize retained secretions must be made available to the Plan upon request.

### Limitations/Exclusions

High frequency chest wall oscillation devices are not covered for any conditions other than those listed above. Intrapulmonary percussive ventilators (IPV) (e.g., the Impulsator F00012) are considered experimental and investigational for all indications due to insufficient evidence of therapeutic value (including but not limited to bronchiectasis, chronic obstructive pulmonary disease [COPD], cystic fibrosis, neuromuscular conditions associated with retained airway secretions or atelectasis, and post-operative pulmonary complications).

#### **Procedure Codes**

A7021	Supplies and accessories for lung expansion airway clearance, continuous high frequency oscillation, and nebulization device (e.g., handset, nebulizer kit, biofilter) (Eff. 10/1/2024)	
A7025	High frequency chest wall oscillation system vest, replacement for use with patient owned equipment, each	
A7026	High frequency chest wall oscillation system hose, replacement for use with patient owned equipment, each	
E0467	Home ventilator, multi-function respiratory device, also performs any or all of the additional functions of oxygen concentration, drug nebulization, aspiration, and cough stimulation, includes all accessories, components and supplies for all functions	
E0483	High frequency chest wall oscillation system, with full anterior and/or posterior thoracic region receiving simultaneous external oscillation, includes all accessories and supplies, each	
94669	Mechanical chest wall oscillation to facilitate lung function, per session	

#### **Diagnosis Codes**

A15.0	Tuberculosis of lung	
B91	Sequelae of poliomyelitis	
D81.810	Biotinidase deficiency	
D84.1	Defects in the complement system	
E84.0	Cystic fibrosis with pulmonary manifestations	
E84.11	Meconium ileus in cystic fibrosis	
G12.0	Infantile spinal muscular atrophy, type I [Werdnig-Hoffman]	
G12.1	Other inherited spinal muscular atrophy	
G12.20	Motor neuron disease, unspecified	

G12.21	Amyotrophic lateral sclerosis		
G12.22	Progressive bulbar palsy		
G12.23	Primary lateral sclerosis		
G12.24	Familial motor neuron disease		
G12.25	Progressive spinal muscle atrophy		
G12.29	Other motor neuron disease		
G12.8	Other spinal muscular atrophies and related syndromes		
G12.9	Spinal muscular atrophy, unspecified		
G14	Postpolio syndrome		
G35	Multiple sclerosis		
<del>G71.0</del>	Muscular dystrophy-(incomplete code as of 10/01/2018)		
G71.00	Muscular dystrophy, unspecified		
G71.01	Duchenne or Becker muscular dystrophy		
G71.02	Facioscapulohumeral muscular dystrophy		
G71.03	Limb girdle muscular dystrophies		
G71.031	Autosomal dominant limb girdle muscular dystrophy		
G71.032	Autosomal recessive limb girdle muscular dystrophy due to calpain-3 dysfunction		
G71.033	Limb girdle muscular dystrophy due to dysferlin dysfunction		
G71.034	Limb girdle muscular dystrophy due to sarcoglycan dysfunction		
G71.0340	Limb girdle muscular dystrophy due to sarcoglycan dysfunction, unspecified		
G71.0341	Limb girdle muscular dystrophy due to alpha sarcoglycan dysfunction		
G71.0342	Limb girdle muscular dystrophy due to beta sarcoglycan dysfunction		
G71.0349	Limb girdle muscular dystrophy due to other sarcoglycan dysfunction		
G71.035	Limb girdle muscular dystrophy due to anoctamin-5 dysfunction		
G71.038	Other limb girdle muscular dystrophy		
G71.039	Limb girdle muscular dystrophy, unspecified		
G71.09	Other specified muscular dystrophies		
G71.11	Myotonic muscular dystrophy		
G71.12	Myotonia congenita		
G71.13	Myotonic chondrodystrophy		
G71.14	Drug induced myotonia		
G71.19	Other specified myotonic disorders		
G71.2	Congenital myopathies		
G71.3	Mitochondrial myopathy, not elsewhere classified		
G71.8	Other primary disorders of muscles		
G72.0	Drug-induced myopathy		

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G72.1	Alcoholic myopathy		
G72.2	Myopathy due to other toxic agents		
G72.89	Other specified myopathies		
G73.7	Myopathy in diseases classified elsewhere		
G82.50	Quadriplegia, unspecified		
G82.51	Quadriplegia, C1-C4 complete		
G82.52	Quadriplegia, C1-C4 incomplete		
G82.53	Quadriplegia, C5-C7 complete		
G82.54	Quadriplegia, C5-C7 incomplete		
J47.0	Bronchiectasis with acute lower respiratory infection		
J47.1	Bronchiectasis with (acute) exacerbation		
J47.9	Bronchiectasis, uncomplicated		
J98.6	Disorders of diaphragm		
M33.02	Juvenile dermatomyositis with myopathy		
M33.12	Other dermatomyositis with myopathy		
M33.22	Polymyositis with myopathy		
M33.92	Dermatopolymyositis, unspecified with myopathy		
M34.82	Systemic sclerosis with myopathy		
M35.03	Sicca syndrome with myopathy		
Q33.4	Congenital bronchiectasis		

### References

Centers for Medicare and Medicaid Services. National Coverage Determination for Intrapulmonary Percussive Ventilator. July 1997. Available at: <u>http://www.cms.gov/medicare-coverage-database/details/ncd-</u>

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## **Revision History**

Company(ies)	DATE	REVISION
EmblemHealth ConnectiCare	Sept. 13, 2019	<ul> <li>Added the following covered indications to HFDWOD:</li> <li>Any neuromuscular disease disorder with ineffective cough</li> <li>Members with a gastrostomy tube and risk of aspiration if manual chest physical therapy (PT) is indicated on a case by case basis when other methods of daily chest PT have been tried and failed</li> </ul>
ConnectiCare	Jun. 14, 2019	ConnectiCare adopts the clinical criteria of its parent corporation EmblemHealth
EmblemHealth	Jun. 10, 2016	Communicated noncoverage of IPVs