

# High Frequency Chest Wall Oscillation and Bronchiectasis<sup>1</sup>

## Overview

Using a High Frequency Chest Wall Oscillation (HFCWO) device to treat bronchiectasis reduced hospital visits, related healthcare usage (e.g., emergency room trips) and prescriptions/antibiotic use.

## Results

A clinical outcomes study of 59 patients with non-cystic fibrosis bronchiectasis using HFCWO produced encouraging results.<sup>1</sup>

**57%**



Fewer antibiotic **prescriptions.**



**60%**



Decrease in **emergency room** visits.



**58%**



Decrease in number of **hospital** visits.



**68%**



Patients reported improved **quality of life.**



## Benefits of HFCWO

HFCWO is an encouraging option for treating bronchiectasis.



Consistently effective airway clearance therapy.



Treatment monitoring available to connect patients with their health care team.



Alternative methods are largely technique- and effort-dependent.



Less complicated for caregivers and doesn't require a certain technique.

# Using High Frequency Chest Wall Oscillation

Produces significant results in multiple areas.

## DECREASE



Hospitalizations.<sup>2,4</sup>



Office, emergency department and hospital outpatient visits.<sup>2</sup>



Prescriptions/antibiotic use.<sup>2,4</sup>

## INCREASE



Improvement in dyspnea and quality of life.<sup>3</sup>



Significant increase of Forced Vital Capacity (FVC)<sup>2</sup> and Forced Expiratory Volume (FEV) after treatment.<sup>3</sup>



Improvement in several lung function parameters compared to CPT.<sup>3</sup>

## GOOD-EXCELLENT



Reported in ability to clear lungs.<sup>4</sup>



Reported in overall respiratory health.<sup>4</sup>

## Medicare Coverage Criteria for HFCWO Airway Clearance Therapy Bronchiectasis

### Patient diagnosed with bronchiectasis:

Confirmed by a standard CT scan, which is characterized by:

a) Daily productive cough for at least six continuous months

**OR**

b) Frequent (i.e., three or more in a year) exacerbations requiring antibiotic therapy

**AND**

There must be well-documented failure of standard treatments to adequately mobilize retained secretions.

### Examples of standard treatments:

- Manual Chest Percussion Therapy (CPT)
- Positive Expiratory Pressure (PEP) device
- Postural drainage
- Nebulized medication with mucolytic

### References

1. Sievert C, Beamer C. Using high-frequency chest wall oscillation in a bronchiectasis patient population: an outcomes-based case review. *Respiratory Therapy*. 2016;11(4).
2. Waycker D, et al. Outcomes with High-Frequency Chest Wall Oscillation Among Patients with Non-CF Bronchiectasis or COPD. Poster presented at ATS 2016.
3. Nicolini A, et al. Effectiveness of treatment with high-frequency chest wall oscillation in patients with bronchiectasis. *BMC Pulmonary Medicine*. April 2013. doi: 10.1186/1471-2466-13-21.
4. Barto T, et al. Registry Outcomes for HFCWO Vest Therapy in Adult Patients with Bronchiectasis. Poster presented at ATS 2016.

©2017 Hill-Rom Services PTE Ltd. ALL RIGHTS RESERVED.  
206827 rev 1 16-OCT-2017 ENG - US

For further information about products or services, please contact your local Hill-Rom representative or visit our webpage:

800-426-4224

[www.respiratorycare.hill-rom.com](http://www.respiratorycare.hill-rom.com)

Enhancing outcomes for patients and their caregivers:

**Hill-Rom**