# Scope statement for HERC Coverage Guidance

DRAFT

### High Frequency Chest Wall Oscillation Devices

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| **Population description** | Children and adults with cystic fibrosis, bronchiectasis, chronic obstructive pulmonary disorder, or pulmonary complications from neuromuscular disease resulting in chronic lung disease  *Population scoping notes: Patients without any of the above conditions are excluded.* |
| **Intervention(s)** | High-frequency chest wall oscillation devices approved for use in the US  *Intervention exclusions: None* |
| **Comparator(s)** | Home physical therapy, mechanical percussors, positive expirtory pressure masks, airway clearance devices (e.g., oscillating devices, intrapulmonary percussive ventilation), or other types of high-frequncy chest wall oscillation devices not approved for use in the U.S. |
| **Outcome(s)**  **(up to five)** | Critical: Hospitalizations, mortality  Important: Frequency of pulmonary exacerbations requiring antibiotics, changes in exercise capacity, symptoms of breathlessness or cough  *Considered but not selected for GRADE Table:* Sputum volume or weight, forced expiratory volume, forced vital capacity, total lung capacity |
| **Key questions** | 1. What is the comparative effectiveness of high-frequency chest wall oscillation devices? 2. Does the comparative effectiveness of high-frequency chest wall oscillation devices vary by:    1. Disease type    2. Patient characterisistics    3. Device characteristics 3. What are the harms of high-frequency chest wall oscillation devices? 4. What is the comparative cost effectiveness of high-frequency chest wall oscillation devices? |
| **Contextual questions** | What resources are required to use the interventions and comparators? |

## Change log

| **Date** | **Change** | **Rationale** |
| --- | --- | --- |
| m/d/yyyy |  |  |

**For internal use only:**

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| **Experts (appointed or informally consulted)** |  |
| **Data needs** |  |
| **How was topic discovered** |  |
| **Reports available from core sources** |  |