



Effective Health Care

WaveRider for COPD

Nomination Summary Document

Results of Topic Selection Process & Next Steps

- WaveRider for chronic obstructive pulmonary disease (COPD) is not feasible for a full systematic review due to the limited data available for a review at this time.

Topic Description

Nominator: Organization

Nomination Summary: The nominator's interest appears to be new research testing the WaveRider, a Wave Motion Therapy™ device developed by the nominator's organization to supplement pulmonary rehabilitation for individuals with COPD. The nominator suggests that use of the WaveRider device prior to pulmonary rehabilitation could improve outcomes of rehabilitation, reduce dyspnea, and result in fewer and less severe exacerbations among patients with COPD of any age or gender.

Staff-Generated PICO

Population(s): Patients with chronic obstructive pulmonary disease (COPD)

Intervention(s): WaveRider device/Wave Motion Therapy™ prior to pulmonary rehabilitation

Comparator(s): Pulmonary rehabilitation without use of WaveRider therapy

Outcome(s): Improved outcomes after rehabilitation; reduction in dyspnea; improved elimination of secretions; fewer and less severe exacerbations. Harms may include occasional sea sickness and occasional difficulty with breathing pattern.

Key Questions from Nominator: 1. For patients receiving pulmonary therapy for COPD, would results be improved by normalizing blood gases and relieving dynamic lung hyperinflation prior to therapy?

Considerations

- The topic meets EHC Program appropriateness and importance criteria. (For more information, see <http://effectivehealthcare.ahrq.gov/index.cfm/submit-a-suggestion-for-research/how-are-research-topics-chosen/>.)
- No guidelines, systematic reviews, or studies were identified that describe the WaveRider device, Wave Motion Therapy™, or any similar form of noninvasive motion therapy to be used in conjunction with pulmonary rehabilitation in patients with COPD. Therefore, this topic is not feasible for a full systematic review due to the limited data available for a review at this time.

- A 2012 National Guideline Clearinghouse guideline synthesis titled *Chronic obstructive pulmonary disease (COPD): pulmonary rehabilitation* indicates general agreement across several recent guidelines about the utility of pulmonary rehabilitation for patients with COPD and about the important components of pulmonary rehabilitation.
 - National Guideline Clearinghouse (NGC). Guideline synthesis: Chronic obstructive pulmonary disease (COPD): pulmonary rehabilitation. In: National Guideline Clearinghouse (NGC) [web site]. Rockville, MD: Agency for Healthcare Research and Quality; 2007 Dec (revised 2012 Jan). Available: <http://www.guidelines.gov/syntheses/synthesis.aspx?id=35091>.