

## Clinical Trial Overview

### High-Frequency Chest Compression: Chronic Lung Disease

In a crossover study comparing the volume of mucus cleared using HFCC vs. CPT, HFCC therapy was shown to be more effective than standard CPT for all outcomes measured.

<b>Title</b>	Hansen LG, Warwick WJ. High-frequency chest compression system to aid in clearance of mucus from the lungs. <i>Biomed Instrum Technol</i> 1990; July/August: 289-294.
<b>Design</b>	Crossover
<b>Method</b>	<p>5 CF patients received 30 HFCC and 30 professionally administered CPT sessions.</p> <ul style="list-style-type: none"> <li>• Sessions matched for time of day</li> <li>• Session durations uniform (unspecified)</li> <li>• Total volume of expectorated sputum collected</li> <li>• Mean volume with each modality compared</li> <li>• PFTs compared</li> </ul>
<b>Results</b>	<p>Compared to 30 CPT treatments, 30 HFCC treatments showed:</p> <ul style="list-style-type: none"> <li>• Significantly more mucus clearance with HFCC (3.3cc/HFCC session vs. 1.8 cc/ CPT session [p&lt;0.001])</li> <li>• Improved lung function</li> <li>• Improved ventilation</li> <li>• No adverse events</li> </ul> <p>HFCC was shown to be more effective than CPT for every outcome measure</p>

03/08