

Clinical Trial Overview

High-Frequency Chest Compression: Medically Fragile Children

A retrospective chart review for 13 children with CP before and then during at least 6 months' use of high frequency chest compression (HFCC) showed aggregate improvements in frequency of hospitalizations and ER visits. Treatment adherence and parental satisfaction were high.

Title	Overgaard PM, Radford PJ. High frequency chest wall oscillation improves outcomes in children with cerebral palsy. <i>Chest</i> 2005; 128 (4): 354S.
Design	Retrospective quality assurance review
Method	<p>A twelve month retrospective review of 13 children with CP after at least 6 month's HFCC therapy</p> <ul style="list-style-type: none"> • 8 males; 5 females • 3 tracheostomies • 7 gastrostomy buttons • 7 used HFCC > 6 month < 1 year • 6 used HFCC > 1 year <p>Parents completed a survey concerning respiratory infections, antibiotic use, absenteeism and treatment satisfaction</p>
Results	<p>Aggregate outcomes:</p> <ul style="list-style-type: none"> • Pre HFCC: 8 hospitalizations • During HFCC: 5 hospitalizations • Pre HFCC: 5 ER visits • During HFCC: 1 ER visit • Average minutes daily use = 41.3 minutes for 11 patients; data unavailable for 2 <p>Parents reported</p> <ul style="list-style-type: none"> • Fewer respiratory illnesses • Less antibiotic use • Reduced absenteeism • High satisfaction with HFCC

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