primary studies - published, non RCT

Mechanical airway clearance using the Frequencer electro-acoustical transducer in cystic fibrosis.

Code: PM17058435 **Year:** 2006 **Date:** 2006 **Author:** Cantin AM

Study design (if review, criteria of inclusion for studies)

crossover design.

Participants

22 individuals with CF

Interventions

conventional chest physiotherapy (CCPT) and Frequencer therapy

Outcome measures

The sputum weight was the main outcome measure.

Main results

Sputum weight was found to be a reproducible measure of the efficacy of chest physiotherapy in individual patients. The Frequencer induced airway clearance in patients with CF that was equivalent to that of CCPT. Furthermore, treatment of a 4% mucin preparation ex vivo with the Frequencer significantly reduced the viscosity of the mucin solution as determined in a capillary rheometer.

Authors' conclusions

These results indicate the Frequencer is safe and as effective as CCPT in inducing airway clearance in patients with CF.

http://www.mrw.interscience.wiley.com/cochrane/clcentral/articles/988/CN-00622988/frame.html

See also

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Keywords

Adult; Artificial Ventilation; non pharmacological intervention - devices OR physiotherapy; Ventilators; Frequencer; Airway clearance technique; Chest physiotherapy;