

primary studies - published RCT

Short-term effects of postural drainage with clapping vs autogenic drainage on oxygen saturation and sputum recovery in patients with cystic fibrosis.

Code: PM7555167

Year: 1995 **Date:** 1995

Author: Giles DR

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

randomized trial

Participants

10 patients with cystic fibrosis (CF)

Interventions

postural drainage with clapping (PD) and autogenic drainage (AD) on separate days

Outcome measures

Pulse oximetry was monitored and sputum was collected during and for 1 h following each treatment. Pulmonary function was measured before and then 1, 15, and 60 min after each treatment.

Main results

There was no significant difference in the amount of sputum recovered with AD (14.0 +/- 3.5 g) vs PD (10.4 +/- 3.0 g) and no significant differences in pulmonary function occurred. Oxygen saturation during PD fell from 93.3 +/- 0.7% to 91.2 +/- 0.8% (p

Authors' conclusions

AD is less likely to produce oxygen desaturation and may be better tolerated by patients with CF, while producing similar benefits in sputum clearance.

<http://dx.doi.org/10.1378/chest.108.4.952>

See also

Chest. 1995 Oct;108(4):952-4.

Keywords

Adolescent; Adult; Airway clearance technique; Child; clapping; Drainage; non pharmacological intervention - devices OR physiotherapy; Postural Drainage; Self-Management; Chest physiotherapy; Autogenic drainage;