primary studies - published RCT

Acute respiratory infection in patients with cystic fibrosis with mild pulmonary impairment: comparison of two physiotherapy regimens.

Code: PM11722291 **Year:** 2001 **Date:** 2001 **Author:** Williams MT

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

randomised cross-over trial with 24 hours between treatments

Participants

Fifteen subjects with cystic fibrosis and predominantly mild pulmonary impairment

Interventions

active cycle of breathing techniques (ACBT) assisted by a physiotherapist was compared with the ACBT performed independently by the patient.

Outcome measures

Measurement outcomes included pulmonary function tests, indirect calorimetry and oximetry parameters.

Main results

Energy expenditure was not significantly different between the two treatment regimens, though significant improvements in pulmonary function were apparent 24 hours following the therapist-assisted ACBT. In this group of subjects, neither form of treatment proved superior in terms of energy consumption, but a reduction in airways obstruction was observed as a carry-over effect following the therapist-assisted ACBT.

http://svc019.wic048p.server-web.com/ajp/vol_47/4/austjphysiotherv47i4williams.pdf

See also

Aust J Physiother. 2001;47(4):227-36.

Keywords

Adolescent; Infection; non pharmacological intervention - devices OR physiotherapy; Respiratory Tract Diseases; Respiratory Tract Infections; Exacerbation; Bacterial Infections; Active Cycle of Breathing Technique -ACBT-; Airway clearance technique; Chest physiotherapy;