primary studies - published RCT

The effect of whole body vibration exposure on muscle function in children with cystic fibrosis: a pilot efficacy trial.

Code: PM23671546 **Year:** 2013 **Date:** 1981 **Author:** O'Keefe K

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

double-blind controlled trail

Participants

24 exacerbations of pulmonary disease in patients with cystic fibrosis

Interventions

Fifteen exacerbations were treated with oxacillin plus sisomicin and carbenicillin (treatment group); nine were treated with oxacillin alone (control group). The planned length of treatment was 14 days.

Outcome measures

failure rate, FEV1, sputum colture

Main results

The difference between the failure rate in the treatment group (3/15) and the control group (7/9) was statistically significant (P less than 0.015). The difference in improvement of forced expiratory volume in 1 second was also significant (P less than 0.025). At the end of the study, Pseudomonas aeruginosa was still present in the sputum of all nine patients in the control group, but was not isolated from six of the 15 patients in the treatment group.

Authors' conclusions

The data suggest a beneficial role for anti-Pseudomonas chemotherapy in the treatment of acute pulmonary exacerbations in patients with cystic fibrosis.

http://dx.doi.org/10.4021/jocmr1137w

See also

J Clin Med Res. 2013 Jun;5(3):205-16.

Keywords

Adolescent; Adult; Anti-Bacterial Agents; Bacterial Infections; carbenicillin; Child; Infection; Oxacillin; pharmacological_intervention; Pseudomonas aeruginosa; Pseudomonas; Respiratory Tract Diseases; Respiratory Tract Infections; Sisomicin; Exacerbation; Penicillins; Aminoglycosides;