

primary studies - published RCT

Evaluation of a novel sputum clearance technique--hydro-acoustic therapy (HAT) in adult patients with cystic fibrosis: a feasibility study.

Code: PM21084546

Year: 2010 **Date:** 1979

Author: Jarad NA

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

RCT double blind

Participants

10 children with CF in matched pairs

Interventions

patients were infused with either Intralipid or with 10% glucose on a double blind basis every other week for one year

Outcome measures

height and weight

Main results

Although statistically there was significantly greater gain in height and weight in the study year compared to the previous year only for the test group, both groups improved more than expected. Cumulative data analysis showed greater improvement for the Intralipid group (23 of a possible 45 points) compared to the glucose group (-2 points; P less than .02)

Authors' conclusions

This study indicates the need to better define the role of nutrition in the pathophysiology of CF. Meanwhile, it is recommended that all children with CF have plasma linoleic acid levels measured at least once yearly, and if levels are low, appropriate supplements should be given.

<http://www.mrw.interscience.wiley.com/cochrane/clcentral/articles/377/CN-00771377/frame.html>

See also

Chronic respiratory disease YR: 2010 VL: 7 NO: 4

Keywords

Caloric Intake; Child; Intravenous; linoleic acid; non pharmacological intervention - diet; placebo; Supplementation; omega-6; essential fatty acids;