

primary studies - published RCT

## **A double-blind comparison of RU-41740 ('Biostim') and placebo in recurrent upper respiratory tract infections in children with cystic fibrosis.**

**Code:** CN-00431661

**Year:** 1991 **Date:** 1995

**Author:** Lenoir G

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

randomized trial

### **Participants**

14 CF in-patients, known to spontaneously produce more than 25 mL sputum.

### **Interventions**

patients underwent two sessions each of two treatment modalities in random order. Treatment A consisted of postural drainage and manual chest percussion. Treatment B included breathing through a commercial device claimed to combine oscillating positive expiratory pressure with oscillations of the airflow.

### **Outcome measures**

Expiratory flows and oxygen saturation were monitored and recorded throughout the study.

### **Main results**

The mean time that the patients tolerated treatment was not different for A and B (18.7 +/- 5 and 19.3 +/- 5 min, respectively). Sputum significantly increased during both treatment periods and in the same amount for the two modalities (2.9 +/- 2.9 to 10.9 +/- 7.1 and 2.8 +/- 3.1 to 10.1 +/- 10.8 mL for A and B, respectively). Visual analogue scale score significantly decreased at the end of each treatment.

<http://www.mrw.interscience.wiley.com/cochrane/clcentral/articles/661/CN-00431661/frame.html>

### **See also**

Drug Investigation YR: 1991 VL: 3 DE: RCT NO: 2

### **Keywords**

Aged; Airway clearance technique; Artificial Ventilation; Bronchiectasis; Drainage; non pharmacological intervention - devices OR physiotherapy; Chest Wall Oscillation; Percussion; Postural Drainage; Respiratory Tract Diseases; Positive-Pressure Respiration- PEP- pep mask; Ventilators; Chest physiotherapy;