

---

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;