

primary studies - published RCT

## **Comparison of high-dose and standard-dose pancreatic enzyme capsules in children with cystic fibrosis.**

**Code:** CN-00201775    **Year:** 1998    **Date:** 2002

**Author:** Robinson PJ

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

Placebo-controlled cross-over trial over 4 days

### **Participants**

23 participants: 14 responders (8 males), mean age 21.4 years, age range 18.5 - 36.6 years; 9 non-responders (5 males), mean age 22.1, range 18.8 - 25.4

### **Interventions**

Day 1: albuterol challenge (200 mcg via MDI) to determine responders Day 2: 45 minutes before bed 4 puffs of inhaled salmeterol (84 mcg) or placebo. Overnight transcutaneous oxygen saturations measured Day 3: morning spirometry Day 4: repeat of Day 2

### **Outcome measures**

Changes in spirometry (FEV1, FEF25-75), changes in oxygen saturation (data not included in analysis)

### **Main results**

Salmeterol administration before sleep resulted in statistically significant increases in mean arterial oxyhemoglobin saturation and in FEV(1) and FEF(25-75) on awakening compared to placebo values, but only in patients responding to daytime albuterol inhalation by showing improvement in lung function.

### **Authors' conclusions**

Salmeterol inhalation at bedtime could prevent or reduce nocturnal hypoxemia in daytime albuterol-responsive CF patients, thus improving the long-term clinical outcome of CF lung disease.

<http://search.informit.com.au/documentSummary;dn=498941739184976;res=IELHEA>

### **See also**

Australian Journal of Hospital Pharmacy YR: 1998 VL: 28 DE: RCT NO: 3

### **Keywords**

Adrenergic beta-Agonists; Adult; Albuterol; Bronchodilator Agents; Inhalation OR nebulised; pharmacological\_intervention; salmeterol; Respiratory System Agents; non pharmacological intervention - devices OR physiotherapy;