

primary studies - published RCT

## The long-term use of inhaled tobramycin in patients with cystic fibrosis.

**Code:** PM15463834

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**Author:** Bowman CM

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

prospective, double-blinded, randomized, placebo-controlled phase II trial

### Participants

39 CF patients

### Interventions

Subjects were randomized to receive nebulized treatment once a day for 4 weeks, followed by 2-4 weeks with no study treatment, and then a 2-week rechallenge phase

### Outcome measures

Examine the effect of rAAT (500, 250, and 125 mg) on sputum NE activity. Sputum myeloperoxidase (MPO), interleukin-8, tumor necrosis factor receptors, sputum and plasma NE/AAT complexes, and safety parameters were measured

### Main results

Trends toward a reduction in NE activity were observed in patients treated with 500 mg and 250 mg of rAAT compared to placebo. Sputum NE/AAT complex and MPO levels were lower on rAAT compared to placebo. No major adverse events and, in particular, no allergic reactions to rAAT were observed. Although significant differences between rAAT and placebo for sputum NE activity were not observed, some improvements were found for secondary efficacy variables.

### Authors' conclusions

This study demonstrated that nebulized rAAT is safe and well-tolerated, but has a limited effect on NE activity and other markers of inflammation.

<http://www.journals.elsevier.com/journal-of-cystic-fibrosis/>

### See also

J Cyst Fibros. 2002 Dec;1(Suppl 2):194-8.

### Keywords

Adolescent; Adult; Aged; Inhalation OR nebulised; nebuliser; non pharmacological intervention - devices OR physiotherapy; pharmacological\_intervention; Recombinant Proteins; Respiratory System Agents; alpha1-anti-trypsin; Anti-Inflammatory Agents; Anti-Inflammatory Agents - excl Steroids;