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primary studies - published RCT

## Effect of aerosolized rhDNase (Pulmozyme) on pulmonary colonization in patients with cystic fibrosis.

**Code:** PM16938752

**Year:** 2006 **Date:** 2006

**Author:** Frederiksen B

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

Randomised controlled parallel trial. Duration of one year.

### Participants

2 participants excluded, one from treatment group, one as had been randomised twice (both times to no treatment group). 72 CF participants, age range 1.1 - 24.8 years. 34 males. Individuals with chronic lung infection excluded or if they had been treated with rhDNase in previous 2 months.

### Interventions

Aerosolised rhDNase 2.5 mg once daily versus no rhDNase treatment.

### Outcome measures

number of positive sputum cultures, FEV1.

### Main results

Overall, the number of positive cultures was significantly higher in the untreated group (82%) compared with the treated group (72%) (p

### Authors' conclusions

Long-term DNase treatment was beneficial to CF patients without chronic lower respiratory tract infection, leading to reduced demand for antibiotics and to improved lung function.

<http://dx.doi.org/10.1080/08035250600752466>

### See also

Acta Paediatr. 2006 Sep;95(9):1070-4.

### Keywords

Adolescent; Adult; Anti-Bacterial Agents; Bacterial Infections; Child; Deoxyribonuclease; Airway clearance drugs -expectorants- mucolytic- mucociliary-; Infant; Infection; Inhalation OR nebulised; pharmacological\_intervention; Pneumonia; Respiratory Tract Infections; colonization; Staphylococcus aureus; Respiratory System Agents; Respiratory Tract Diseases; Dornase alpha; Pulmozyme;