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primary studies - published RCT

## Long term effects of denufosal tetrasodium in patients with cystic fibrosis.

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

Multicenter, randomized, parallel group double-blind placebo-controlled trial

### Participants

CF patients with mild lung function impairment age 5 years and older. Multicenter, conducted at 102 CF care centers in Australia, Canada and the United States. 685 patients were screened for the study and 466 patients (233 in each group) were randomized to study treatment.

### Interventions

The active group (n=233) received 60 mg denufosal via inhalation three times daily

### Outcome measures

The primary efficacy endpoint was change in FEV(1) in liters from Day 0 to week 48.

### Main results

The adjusted mean change in FEV(1) was 40 mL for denufosal and 32 mL for placebo with a resulting treatment effect of 8 mL (95% CI -0.040, 0.056). The average rate of change in FEV(1) percent of predicted over 0 to 48 weeks was -3.04% for placebo vs. -2.30 for denufosal (a difference of 24% relative to placebo) among all patients. The incidence of pulmonary exacerbation was 26% vs. 21% for the placebo and denufosal groups with no differences in the time to first event. The study treatments were well tolerated and there was no evidence of systemic effects in any safety parameter assessed.

### Authors' conclusions

In patients with CF treatment with denufosal for 48 weeks did not improve pulmonary function or reduce the incidence of pulmonary exacerbations.

<http://dx.doi.org/10.1016/j.jcf.2012.05.003>

### See also

J Cyst Fibros. 2012 Dec;11(6):539-49. doi: 10.1016/j.jcf.2012.05.003. Epub 2012 Jun 8.

### Keywords

Adolescent; Adult; Child; Other drugs; denufosal; pharmacological\_intervention; Inhalation OR nebulised;