
primary studies - published RCT

Inhaled mannitol improves lung function in cystic fibrosis.

Code: PM18339790

Year: 2008 Date: 2011

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

Phase 3, randomized, double-blind, placebo-controlled, 24-week trial

Participants

A total of 352 patients greater than or equal to 5 years old with cystic fibrosis who had FEV(1) greater than or equal to 75% of predicted normal

Interventions

patients were randomized to receive inhaled denufosal, 60 mg, or placebo three times daily

Outcome measures

Mean change from baseline to Week 24 endpoint in FEV(1) (primary efficacy endpoint); secondary endpoints included exacerbation rate and other measures of lung function.

Main results

Mean change from baseline to Week 24 endpoint in FEV(1) (primary efficacy endpoint) was 0.048 L for denufosal (n = 178) and 0.003 L for placebo (n = 174; P = 0.047). No significant differences between groups were observed for secondary endpoints including exacerbation rate and other measures of lung function. Denufosal was well tolerated with adverse event and growth profiles similar to placebo.

Authors' conclusions

Denufosal improved lung function relative to placebo in cystic fibrosis patients with normal to mildly impaired lung function.

<http://dx.doi.org/10.1378/chest.07-2294>

See also

Chest. 2008 Jun;133(6):1388-96. Epub 2008 Mar 13.

Keywords

Adolescent; Adult; Child; Other drugs; denufosal; pharmacological_intervention; Inhalation OR nebulised;