*Other Reviews - - Other Review*

# Treatment of chronic rhinosinusitis with dornase alfa in patients with cystic fibrosis: a systematic review.

**Code:** PM29323796 **Year:** 2018 **Date:** 2018 **Author:** Shah GB

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

Systematic review

### Participants

Articles about chronic rhinosinusitis in CF paritients

### Interventions

Dornase alfa

### Outcome measures

Sinonasal symptoms, endoscopic and radiographic findings, pulmonary function

### Main results

Sixty-two articles were identified; 6 met the inclusion criteria (104 patients). Improvement measured by sinonasal symptoms, endoscopic and radiographic findings, and pulmonary function was variably reported between the studies. Sinonasal symptoms were shown to improve in all studies with use of intranasal topical dornase. Three placebo-controlled studies showed that topical dornase significantly improved sinonasal symptoms more than saline alone. The impact on pulmonary function and radiographic and endoscopy findings was variable.

### Authors' conclusions

Topical intranasal dornase appears to improve sinonasal symptoms in CF patients to a greater degree than saline alone. The impact on other outcomes is less clear. Larger studies are needed to fully elucidate the true efficacy of dornase alfa in the treatment of CRS in CF patients.

http://dx.doi.org/10.1002/alr.22082

### See also

Int Forum Allergy Rhinol. 2018 Jun;8(6):729-736. doi: 10.1002/alr.22082. Epub 2018 Jan 11.

### Keywords

Adolescent; Adult; Bacterial Infections; Child; Deoxyribonuclease; Infection; Inhalation OR nebulised; nebuliser; non pharmacological intervention - devices OR physiotherapy; pharmacological_intervention; Recombinant Proteins; Respiratory Tract Infections; Sinusitis; Airway clearance drugs -expectorants- mucolytic- mucociliary-; Respiratory System Agents; Respiratory Tract Diseases; Dornase alpha; Pulmozyme;