

primary studies - published RCT

## **Safety, efficacy and convenience of tobramycin inhalation powder in cystic fibrosis patients: The EAGER trial.**

**Code:** PM21075062

**Year:** 2011 **Date:** 2014

**Author:** Konstan MW

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

Multicenter, randomized, double-blind proof of concept study

### **Participants**

70 CF subjects

### **Interventions**

NAC or placebo orally thrice daily for 24weeks.

### **Outcome measures**

Primary endpoint: change in sputum human neutrophil elastase (HNE) activity; secondary, FEV1 and other clinical lung function measures; and safety, the safety and tolerability of NAC and the potential of NAC to promote pulmonary hypertension in subjects with CF.

### **Main results**

Lung function (FEV1 and FEF25-75%) remained stable or increased slightly in the NAC group but decreased in the placebo group ( $p=0.02$  and  $0.02$ ). Log10 HNE activity remained equal between cohorts (difference 0.21, 95% CI -0.07 to 0.48,  $p=0.14$ ).

### **Authors' conclusions**

NAC recipients maintained their lung function while placebo recipients declined (24week FEV1 treatment effect=150mL,  $p$

<http://dx.doi.org/10.1016/j.jcf.2010.10.003>

### **See also**

J Cyst Fibros. 2011 Jan;10(1):54-61. Epub 2010 Nov 12.

### **Keywords**

Acetylcysteine; Airway clearance drugs -expectorants- mucolytic- mucociliary-; Inhalation OR nebulised; N Acetylcysteine; pharmacological\_intervention; Combined Modality Therapy; Oral; Respiratory System Agents; Nacystelyn;