

# Bacterial pattern in chronic sinusitis and cystic fibrosis

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**Objective.** To assess the association between pathogenic bacteria found in bronchoalveolar lavages and paranasal cavity cultures in patients with cystic fibrosis (CF) who underwent endonasal endoscopic sinus surgery. The authors hypothesized that the pathogenic bacterial pattern of the upper airway would be associated with that of the lower airway. **Study Design.** Prospective case series with planned data collection. **Setting.** Tertiary referral center. **Subjects and Methods.** A group of 16 patients with diagnosis of CF who underwent endonasal endoscopic sinus surgery from July 2001 to August 2009 participated in the study. Culture samples were obtained from bronchoalveolar lavages and paranasal cavities. A Fisher exact test was performed to examine the significance of the association between upper airway and lower airway cultures. **Results.** The most frequent microorganisms in cultures of paranasal cavities and bronchoalveolar lavages were *Pseudomonas aeruginosa*, *Staphylococcus aureus*, and *Str*