Other Reviews - - Other Review

Perioperative strategies to improve sinus surgery outcomes in patients with cystic fibrosis: a systematic review

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

systematic review

Participants

CF patients

Interventions

Intraoperative techniques and postoperative practices after functional endoscopy sinus surgery (FESS). Perioperative strategies included postoperative medical therapies, intraoperative techniques and image guidance, intranasal corticosteroid injection, dornase alfa, gene therapy, and second-look procedures.

Main results

The initial PubMed search identified 169 articles. One additional article was identified through the Cochrane Library. After reviewing the abstracts, 41 selected studies were examined in further detail, and 22 articles were ultimately selected for suitability for this review. The bibliographies of these articles were reviewed and no additional articles were identified. Perioperative strategies included postoperative medical therapies, intraoperative techniques and image guidance, intranasal corticosteroid injection, dornase alfa, gene therapy, and second-look procedures. Most studies were limited to case series with relatively small numbers of patients. Very few randomized controlled studies were identified.

Authors' conclusions

Despite the prevalence of recurrent sinonasal disease after FESS in patients with CF, evidence for definitive perioperative management in this population is lacking. Most recommendations are based on small case series. Multicenter studies to evaluate perioperative strategies that improve FESS outcomes in patients with CF are warranted.

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See also

Otolaryngol Head Neck Surg. 2013 Jul;149(1):30-9. Epub 2013 May 14.

Keywords

Sinusitis; Respiratory Tract Infections; Respiratory Tract Diseases; Infection; Bacterial Infections; Adult; non pharmacological intervention - surg;