Effect of passive smoking on ciliary regeneration of nasal mucosa after functional endoscopic sinus surgery in children.

Abstract:
Hypothesis and background: Passive smoking in the pediatric age group is associated with an increased frequency of a number of childhood respiratory disorders. However, its effect on ciliary regeneration after functional endoscopic sinus surgery for chronic sinusitis has not previously been reported. Material and methods: We conducted a prospective, non-randomised cohort study on 38 pediatric patients with chronic sinusitis. We compared two patient groups – passive smokers and those not subjected to passive smoking – as regards ciliary regeneration after functional endoscopic sinus surgery, using objective methodology.
Results and conclusion: We found passive smoking to have a negative impact on sinus cilia regeneration following functional endoscopic sinus surgery.