IMPACT OF ADENO/TONSILLECTOMY ON THE ACOUSTIC PARAMETERS OF THE VOICE IN CHILDREN
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Conclusion
Patients with an indication for adeno/tonsillectomy deviate in the pre-operative period significantly from the reference values in one or more of the tested parameters. Largest deviations were recorded at the values of Jitter and Schimmer. After surgery, it is reduced for all parameters, except for Jitter. The most viable parameter that deviates in the post-operative period is Schimmer.

Introduction
To assess effects of adeno/tonsillectomy on the voice in children by means of acoustic analysis.

Methods
Before the cochlear implantation after the 1st, 7th and 30th postoperative day following parameters were evaluated: average fundamental frequency (Fo), Jitter percent (Jitt), Shimmer and noise-to-harmonics ratio (HNR). Sample consisted from 323 children (male 188, female 135), 4-15 years old. 223 patients underwent adeno/tonsillectomy (69.04%), and 100 patients underwent adenoidectomy (30.96%). All the patients were operated under general anesthesia on by the same team of surgeons, using cold steel instruments via standard dissection technique, and adenoids removed by currettage.

Results
Of all the tested acoustic parameters, only the values of the fundamental frequencies were statistically significantly lower one month after adenotonsillectomy \((p=0.0005)\). HNR values are statistically significantly reduced in patients a month after adenoidectomy \((p=0.006)\). Preoperative values of Fo, Jitt, Schimmer and HNR were elevated in 8.1%, 34.5%, 6.3% and 26.0% of children, respectively, and all of them reduced one month after operation \((p<0.01\) for Schimmer and HNR).