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# Ocena percepcji mowy w funkcji zaprogramowanej ilości maksimumów spektralnych u pacjentów dorosłych z implantem ślimakowym

Evaluation of speech perception depending of number of spectral maxima in implanted adults

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**Subjects.** 11 adults cochlear implant users, age since 18 till 70 years old (mean 43); 6 male and 5 female; diagnosis-postlingual deafness; used CI over 3 years. **Method.** The aim of study was evaluation of an optimal number of spectral speech coding maxima. The speech audiometry in free field for programmed 8, 10 and 12 spectral maxima and subjective evaluation of quality of speech perception in different acoustic environmental were performed. **Results.** Results of the study showed the better speech intelligibility for programmed 8 (approx. 54%) and 10 spectral maxima (27%). **Conclusion.** The number of speech spectral maxima over 10 is not necessary to increasing of speech intelligibility. In the BTE (behind the ear) speech processor the power consumption were important reduced for 8 spectral maxima. Application of 810 number of maxima is optimal in first session (switch-on) programming of speech processor.