

Wpływ rodzaju protezki strzemiączka na stopień poprawy słuchu w chirurgii strzemiączka - analiza retrospektywna 350 przypadków

Does the material of stapes prosthesis influence hearing improvement in stapes surgery - retrospective analysis of 350 cases

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Summary

Aim. Retrospective analysis of the post-op hearing results in stapes surgery using different types of materials for stapes prosthesis after 12 months follow up. **Material and methods.** The total number of 350 otosclerosis patients who underwent surgical treatment at the Otosurgery Department, Medical University of Lodz from 1980-2002. All patients included in the study were divided into 4 groups: group 1 (N=54) - Portmann's method interposition, group 2 (N=160) - stapes replaced with the Shea - type prosthesis, group 3 (N=60) - platinum wire prosthesis (Zini - type), group 4 (N=76) - tefl on-piston operation (Fisch - type). **Results.** The 12 months post-op mean value for air-bone gap (500, 1000, 2000 Hz) presented the following values: group 1-19 dB, group 2-15.9 dB, group 3-18.4 dB, group 4-13.5 dB. The percentage of patients with the mean air-bone gap value of 15 dB or less (500, 1000, 2000 Hz) has the following values in each group: group 1-75%, group 2-81.3%, group 3-83%, group 4-85 %. **Conclusions.** 12 months post-op hearing results compared between the 4 studied groups showed statistically not significant differences. Our experience with tefl on-piston prosthesis shows the lowest post-op mean value of the air-bone gap.