



### *The Influence of Time of Hearing Aid Use on Auditory Perception in Various Acoustic Situations*

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The assessment of sound perception in hearing aids, especially in the context of benefits that a prosthesis can bring, is a complex issue.

The paper presents the development of a method for the assessment of auditory perception and the effectiveness of applying hearing aids for hearing-impaired people during short-term use. The method consists of a survey based on the APHAB questionnaire. Additional criteria such as the degree of hearing loss, number of hours and days of hearing aid use as well as patient's experience were taken into consideration. A web-based application has been developed to allow testing from any computer with Internet access. The scope of investigations and measurements has been chosen in such a way that they can be used with the existing human resources and typical audiology equipment base at hearing centers.

The results of the benefit obtained from the use of hearing aids in various acoustic environments, taking into account the time of their use, are presented. The research results show that in the first period of use of hearing aids, speech perception improves, especially in noisy environments. The perception of unpleasant sounds also increases, which leads to deterioration of hearing aid acceptance by their users.