Tilmelding af Foredrag

Foredragets titel

Comparison of Hearing Aid Fitting Effectiveness With Audiograms From Either User-Operated or Traditional Audiometry in a Clinical Setting

Forfatter(e)

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Uddannelsesniveau

Førsteforfatter er PhD-studerende under Jesper Hvass Schmidt. Den øvrige forfattergruppe er alle PhD'er indenfor hvert deres felt.

Introduktion

The constrained accessibility of hearing tests is a significant challenge within the hearing rehabilitation system. Integrating user-operated audiometry (UAud) can expand the capacity. Research shows UAud's reliability and accuracy is comparable to traditional audiometry. However, its clinical adoption and acceptance remain limited, partly due to uncertainties regarding its value as a base for hearing aid (HA) fitting. This study compares the effectiveness of HA fitting based on the UAud to that based on traditional audiometry in a clinical setting.

Materiale/metode

The design was a blinded non-inferiority randomized controlled trial. 215 adults referred for HA treatment were included in the analysis. Participants were randomized to receive HAs fitted based on either UAud (UAud group) or traditional audiometry (control group). The primary outcome was changes in self-reported functional hearing impairment from baseline to follow-up. Secondary outcomes included aided speech-in-noise performance at follow-up.

Resultater

Both groups exhibited a significant improvement in self-reported functional hearing impairment from baseline to follow-up. The UAud group’s before-after changes in self-reported functional hearing impairment was non-inferior to that of the control group. The UAud group also demonstrated non-inferiority to the control group across all secondary outcome measures.

Diskussion

As the outcome of HA fitting based on UAud was non inferior to that based on traditional audiometry, it’s suitable for clinical use as a base for HA fitting in the general clinical practice. The use of UAud could play an important role for clinicians in need of effectively treatment of the growing number of HA users in the future.

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