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Critical Review: Is there Evidence that Asymmetric Microphone Fitting Strategies Provide More Benefit Compared to Traditional Directional Microphone Fittings?

Vusich, L.
M.Cl.Sc. (Aud) Candidate
School of Communication Sciences and Disorders, U.W.O.

This critical review examined the current literatur

This strategy was effective in identifying one article. Two other articles were found using article referencing of the first paper.

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Studies selected for inclusion in this critical review were required to directly compare asymmetric microphone fitting strategies with traditional directional fittings. Because of the newness of the research question, no limits were set on the demographics of research participants, outcome measures, or methodological design.

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Results of the literature search yielded the following types of articles congruent with the selection criteria: Within-subjects experimental design (3).

Results

A speech recognition in noise screening was completed initially with hearing aids set to binaural OMNI and binaural DIR to confirm that each subject could in fact obtain a directional advantage. SNR was adjusted in 3dB steps starting at 0dB until a minimum 15% directional advantage was obtained.

Tests of speech recognition in noise were completed using Harvard Sentences for four hearing aid conditions (binaural OMNI, binaural DIR, OMNI right/ DIR left, DIR right/ OMNI left). The speech came from a speaker located directly in front of the

amplification, as well as reduce the return rate of hearing aids.

The challenge for making the asymmetric fitting