The trueLOUDNESS fitting procedure in practice

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The trueLOUDNESS fitting method considers individual binaural broadband loudness summation when calculating gain values for hearing aids. Binaural broadband loudness summation shows large individual differences so that large differences in calculated gain for people with similar hearing thresholds can occur.

Recently, the trueLOUDNESS method has been made available on ACAM5 audiometers in combination with A2000 free-field headphones. The first hearing aid acousticians were able to test the procedure in practice. The acousticians were accompanied by Hörzentrum Oldenburg as unusual results for the gains compared to audiogram-based methods can occur. For instance, gain values can be predicted at frequencies with normal hearing thresholds. High compression ratios of more than 1:3, and negative gain values at an input level of 80 dB (G80) are possible.

In this presentation, case studies from practical application will be shown. I shall show how customers were provided and fitted using trueLOUDNESS, how gains differed from audiogram-based prescription, and what customer feedback was like.