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GN Hearing

Verification of Advanced Noise Reduction Algorithms in Hearing Aids

Acoustic test box and real ear measures are well-established best practices in the field of audiology. Test box measures can be used to assess the performance of hearing aids and evaluate whether they are meeting manufacturer's specification. Real ear measures can ensure hearing aids are providing gain that match prescriptive targets. However, these tests often rely on turning off advanced algorithms or looking at the entire hearing aid system. Verification of individual algorithms, such as noise reduction, can also provide value in the clinic. Test box and on ear measures of advanced noise reduction algorithms can help confirm if the algorithm is working, what the algorithm is doing, and how it is impacting the patient. This lecture will highlight clinical goals of verification of advanced noise reduction algorithms, and the utility of test box and real ear measures.