

Electroacoustic Verification of Nonlinear Frequency Compression Hearing Aids

Danielle Glista, Susan Scollie, Marlene Bagatto, Richard Seewald
Child Amplification Laboratory, National Centre for Audiology, University of Western Ontario, London,
Ontario.

Abstract:

Nonlinear frequency compression (NFC) technology may be able to bring previously inaudible high frequency sounds to regions of usable hearing. This technology uses digital signal processing that selectively applies NFC to the high frequencies, while the lower frequency region is left uncompressed. Due to the nature of this signal processing, clinicians should modify verification procedures and fitting interpretations for NFC hearing aid fittings. Specifically, hearing aids with NFC will have a modified output display in the high frequencies depending on the verification procedure used, when compared to conventional amplification. This poster will outline a clinical protocol for electroacoustic verification of NFC hearing aids in the pediatric population.

Contact Information:

Danielle Glista
National Centre for Audiology
Elborn College Building, room 2262M
University of Western Ontario
London, ON
N6G 1H1
Phone: 519-661-2111 ex. 88913
E-mail: daglista@uwo.ca