

Abstract EFAS/DGA 2007

Partial Deafness Cochlear Implantation: Outcomes with the DUET Partial Deafness Cochlear Implantation: Outcomes with the DUET Partial Deafness Cochlear Implantation: Outcomes with the DUET

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Recently, Partial Deafness Cochlear Implantation (PDCI) subjects implanted at our center were upgraded with the DUET Hearing System (Combined Electric and Acoustic Stimulation device) from MEDEL. The objectives of this study were to identify a speech test performance with the DUET and to find the type of PDCI subjects benefiting from the DUET.

12 PDCI adults with at least 3 months of experience with their cochlear implant (CI) and hearing aid (HA) participated in this study. Subjects were tested with the monosyllable word and sentence tests in quiet and in noise in the conditions DUET, CI Only, DUET HA Only and Best Aided (DUET plus contralateral hearing). Subjective opinions were obtained from each subject. For each condition, optimized fitting parameters were used.

Mean score of speech tests showed best results in the condition Best Aided and the DUET. The poorest results were in the condition DUET HA Only. An exact area of audiograms for subjects benefiting from the DUET will be presented. Subjects who previously wore an HA in addition to their CI indicated an increased comfort with the DUET.

Majority PDCI subjects do benefit from the DUET not only in noisy, but also in quiet conditions.

Literatur:

H. Skarzynski, A. Lorens, A. Piotrowska; Partial deafness cochlear implantation provides benefit to a new population of individuals with hearing loss; Acta Otolaryngologica, 2006; 126; 934-40

