

Speech Perception Benefits for Children Using an Advanced Cochlear Implant Speech Processing Strategy in Quiet and in Noise

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A new speech processing strategy (SPEAK) has been developed by the University of Melbourne and Cochlear Pty Ltd for use with the Nucleus 22-channel electrode array. In this strategy, 20 programmable filters are repetitively scanned at an average rate of 250Hz and the largest spectral components or maxima are selected from the incoming speech signal. This new speech processing strategy has been shown to provide significantly improved benefits in adult implant patients, particularly in the presence of background noise. This report presents data of a preliminary paediatric clinical trial of the new SPEAK speech processing strategy.



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