Factors influencing sound-source localization in children with bilateral cochlear implants

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Aim

To assess the effects of inter-implant interval and onset of profound deafness, controlling for age, CI manufacturer and time since CI2 (N=127)
Inter-implant Interval
Onset of profound deafness
Significant predictors

Linear multi-variable regression modelling
N = 127  Adj. $R^2 = 0.259$

- **Inter-implant interval**: 1.7° RMS error worse per year ($p<0.001$) compared to simultaneous.
- **Time with hearing thresholds better than 90 dB HL bilaterally**: 1.3° RMS error better per year ($p=0.004$) compared to congenital deafness
- **Time since CI**: 1.6° RMS error better per year ($p=0.035$)
- **CI Manufacturer**: M1 5.8° RMS error better than M2 ($p=0.006$); M1 9.2° RMS error better than M3 ($p=0.043$)
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