The University of Manchester
Biomedical Imaging Institute

MANCHESTER 1824

Cortical activity in bilateral cochlear implant recipients

Kevin Green
Julian Matthews

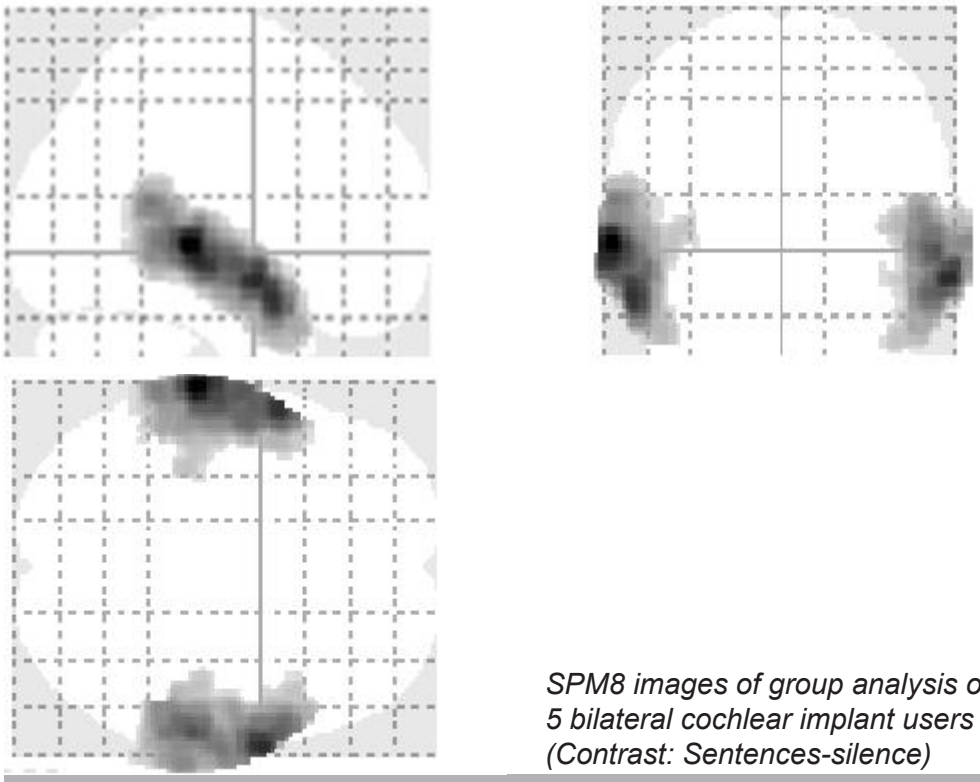
Wednesday 25th April 2012,1.30pm

(with lunch from 1pm)

Room 1.009, Roscoe Building

Biomedical Imaging Institute

BII Seminar



SPM8 images of group analysis of 5 bilateral cochlear implant users (Contrast: Sentences-silence)

Cochlear implants are a well accepted technique for the management of profound sensory hearing loss. While outcomes from implantation tend to be good, up to 15% of cochlear implant recipients get poor speech perception with no clinical reason apparent. Some of this poor performance may be due to factors within the auditory cortices. Study of how the brain adapts to the reintroduction of auditory input via cochlear implants may ultimately allow clinicians to predict which patients will get suboptimal outcomes from implantation. This would permit more accurate counselling of prospective implant candidates and potentially more focussed rehabilitation for those predicted to get poorer outcomes.

Kevin Green is a consultant ENT surgeon based at Manchester Royal Infirmary and specialises in the implantation of auditory devices for the rehabilitation of deafness. His main areas of research are hearing loss and its rehabilitation and the application of functional neuroimaging techniques in deaf patients both before and after cochlear implantation. For more information and to register, visit:

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