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The role of magnetoencephalography in the presurgical evaluation of patients with MRI-negative operculo-insular epilepsy

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Highlights

- ✧ MEGSSs were shown in the operculo-insular region in 11/13 patients with negative MRI.
- ✧ MEG findings changed the plan of intracranial electrode implantation in 5 patients.
- ✧ Intracranial recording showed frequent spikes in the region where MEGSSs concentrate.
- ✧ Removing the cortex with frequent spikes and with MEGSSs resulted in good outcome.
- ✧ MEG played an additional role in localising MRI-negative operculo-insular epilepsy.

ABSTRACT

Purpose: Magnetoencephalography (MEG) is considered to be a useful clinical tool to provide additional information for localising the epileptogenic zone or planning intracranial electrode implantation. This study aimed to evaluate the value of MEG in the presurgical localisation of the operculo-insular epileptogenic zone in patients with negative magnetic resonance imaging (MRI).

Methods: Thirteen patients with operculo-insular epilepsy and negative MRI who

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