Presurgical Evaluation in Nonlesional Epilepsy: MEG
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Robert C. Knowlton, MD, MSPH
University of California San Francisco
Seizure Disorders Surgical Program
Learning Objective

Understand key attributes of MEG in MRI negative epilepsy.

- What to do?
- Aid to EEG?
- Where to go?
- Prediction of yield?
What MEG cannot do

1. Resolve multifocal epileptogenic regions to one primary epileptogenic zone
2. Convert generalized (or effectively generalized) epilepsies to ones that are focal
3. Solve localization of complex spike sources that have temporal and spatial overlap
What to do?...aid to EEG?
Where exactly?
What to do?...aid to EEG?
MEG Prediction of ICEEG Yield, and Surgical Outcome
Impact on Clinical Care and Practice

• Aid in determining if a patient is a candidate for surgery (i.e. allow some patients to move forward in the surgical evaluation).
• Add to EEG—better lateralization, and even sublobar localization of epileptogenic tissue.
• Provide additional information on ultimate yield in surgical evaluation, including outcome.