REVIEWER COMMENTS

Intraoperative validation of functional magnetic resonance imaging and cortical reorganization patterns in patients with brain tumors involving the primary motor cortex

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The claim that reorganization patterns are demonstrated in this group of patients must be viewed with some skepticism because of the well-known distributed and bilateral cortical activation that can occur during motor activity without the presence of pathology. It is important to recognize that some of the failure of overlap of fMR imaging and stimulation data can be related to spatial distortion inherent in echo planar techniques as well as to brain shift during the surgical exposure. The idea that fMR imaging data will be obtainable with an open scanner is very far from reality. The following reference should be of further interest:

Hill, et al.: Pitfalls in comparing fMRI and invasive electrophysiology recordings, in Wells WM, Colchester ACF, Delp S [eds]: **Proceedings of Medical Image Computing and Computer Assisted Intervention**. Berlin: Springer-Verlag, 1998, pp 842-852