

Experience with high-frequency oscillations at Epilepsy Centre Motol in Prague.

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Abstract:

The Epilepsy Centre Motol in Prague is one of the major epilepsy surgery and epilepsy research centres in the Czech Republic. Members of the centre have established the Intracranial Signal Analysis Research Group Prague, which brings together epileptologists, mathematicians and basic scientists. The central aim of the group is to develop and implement new techniques of electrophysiological and image data processing to increase their diagnostic yield. HFOs represent one of the main research directions and HFOs are examined from intracranial data of each patient undergoing presurgical examination. Resection planning based on information gained from HFO properties is still very limited at our centre. The major limitations are a lack of clear definitions of pathological HFOs, an absence of unified guidelines for HFO detection and insufficient knowledge about appropriate interpretation of HFO derived information.