

CASE STUDY

Periventricular Nodular Heterotopia

29 year old man with 5 to 6 seizures a month characterized by unformed visual phenomenon without impaired awareness, 3 seizures a month with loss of awareness and left hand dystonic posturing, and rare generalized tonic clonic seizures.

HISTORY

Seizure onset: 15 years of age

Seizure risk factors: none

Prior treatments: failed trials of 5 antiepileptic medications

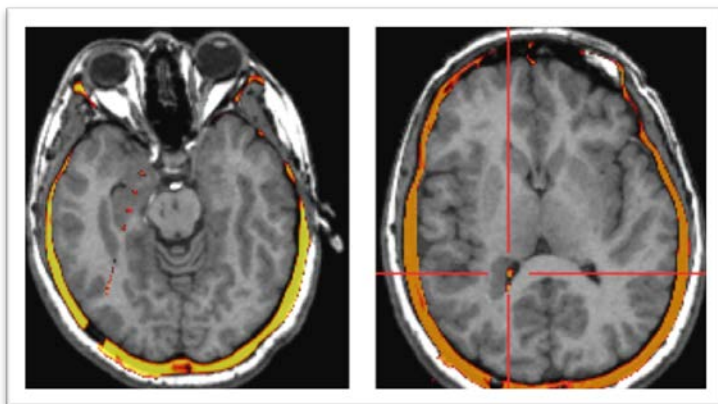
Scalp EEG: interictal left anterior temporal spikes and left posterior quadrant sharps; video-EEG captured simple partial visual seizures with left posterior quadrant rhythmic slowing and 2 complex partial seizures with left anterior temporal ictal onset

MRI: left temporal periventricular nodular heterotopia

Neuropsychological testing: normal

EVALUATION & PLAN

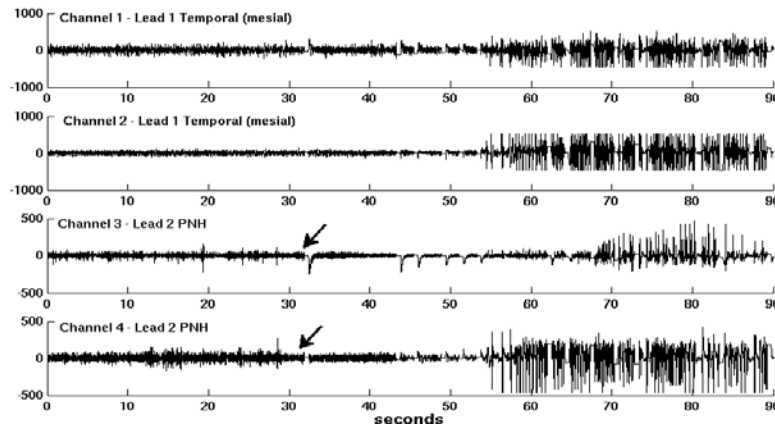
- Partial onset seizures of left occipital and/ or left mesial temporal lobe origin, possibly related to PVNH
- Candidate for RNS System with leads in PVNH and left hippocampus



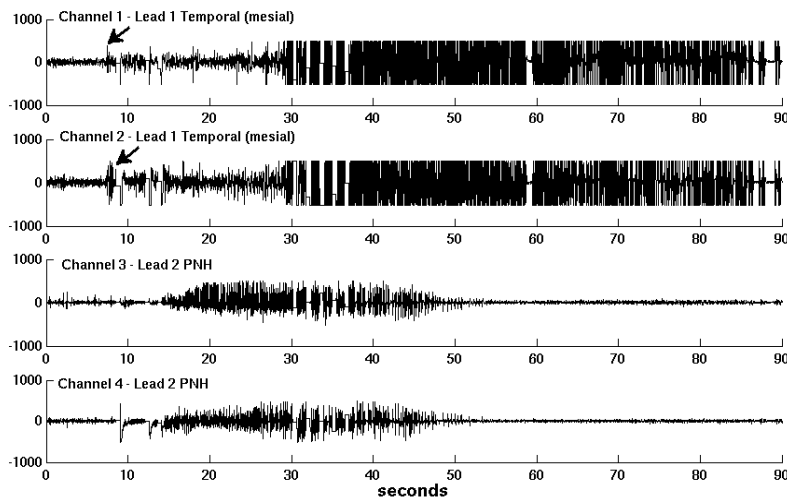


ECOG

Example 1: Electrographic seizure beginning in a PVNH and spreading to the hippocampus. Channels 1 and 2 are recording from a depth lead placed in the left hippocampus. Channels 3 and 4 are recording from a depth lead placed in a PVNH.



Example 2: Electrographic seizure beginning in the hippocampus and spreading to a PVNH. Channels 1 and 2 are recording from a depth lead placed in the left hippocampus. Channels 3 and 4 are recording from a depth lead placed in a PVNH.



This case study is a composite adapted from actual case files; results are not necessarily representative of the patient population.



See important prescribing and safety information in the RNS® System labeling. This is intended as supplementary information and should be used in conjunction with the labeling. Refer to the labeling for a description of the RNS® System and its components, indications for use, contraindications, warnings, cautions, adverse events and instructions for use. The manuals are available at www.NeuroPace.com.

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