

Non-lesional mesial temporal lobe epilepsy

Among 29 patients with non-lesional MRI and mesial temporal lobe seizure onset recorded during stereo-EEG (SEEG) evaluation, four patients with unilateral preimplantation hypothesis had independent bilateral mesial temporal seizures on SEEG despite unilateral non-invasive evaluation data. Three of these patients were treated with a bitemporal [responsive neurostimulation](#) system(RNS). Independent bilateral mesial temporal seizures have been confirmed on RNS ECoG ([electrocorticography](#)). The fourth patient underwent right [anterior temporal lobectomy](#).

Perven et al. propose that patients with non-lesional mesial temporal lobe epilepsy would benefit from bilateral invasive evaluation of mesial temporal structures to predict those patients who would be at most risk for surgical failure. [Neurostimulation](#) could be an initial treatment option for patients with independent bitemporal seizure onset ¹⁾.

¹⁾

Perven G, Podkorytova I, Ding K, Agostini M, Alick S, Das R, Dave H, Dieppa M, Doyle A, Harvey J, Lega B, Zepeda R, Hays R. Non-lesional mesial temporal lobe epilepsy requires bilateral invasive evaluation. *Epilepsy Behav Rep.* 2021 Mar 27;15:100441. doi: 10.1016/j.ebr.2021.100441. PMID: 33898964; PMCID: PMC8058515.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=non-lesional_mesial_temporal_lobe_epilepsy

Last update: **2024/06/07 02:50**

