

Anterior mesial temporal lobe resection

A study identifies potential prognostic factors for favorable anterior [mesial temporal lobe](#) (AMTL) resection outcomes in patients with medically refractory temporal lobe epilepsy (TLE) with bilateral features on pre-operative examination.

Thirty-one patients demonstrated bilateral features defined as: bilateral independent temporal or bitemporal ictal onsets on surface or intracranial EEG, or bitemporal interictal epileptiform abnormalities on [surface EEG](#) with bilateral radiographic mesial temporal sclerosis. Surgical outcomes were classified according to reduction in seizure frequency: I (100% reduction), II ($\geq 75\%$ reduction), III (50-74% reduction), IV ($< 50\%$ reduction).

Of 31 patients, 14 (45%) improved to class I and 9 (29%) had a class II outcome at an average of 4 years after surgery. Eight (26%) patients did not exhibit good surgical outcome (class III, class IV). We found that neuropsychological and Wada memory scores were significantly correlated ($p < 0.05$) with surgical outcome, and logistic regression found neuropsychological evaluation significantly predicted better surgical outcome ($p < 0.05$).

When bilateral features are present on pre-operative evaluation, neuropsychological and Wada test results can provide unique data to better identify those patients more likely to achieve substantial seizure reduction ¹⁾.

¹⁾

Waseem H, Osborn KE, Schoenberg MR, Kelley V, Bozorg AM, Benbadis SR, Vale FL. Predictors of surgical outcome in medically-resistant temporal lobe epilepsy with bilateral features on pre-operative evaluation. Clin Neurol Neurosurg. 2015 Oct 23;139:199-205. doi: 10.1016/j.clineuro.2015.10.016. [Epub ahead of print] PubMed PMID: 26513433.

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