Clinical commentary

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Defecation reflex seizures: a case report with long-term VEEG monitoring, neuroimaging and comprehensive epilepsy evaluation

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Reflex seizures

- Reflex seizures are those consistently elicited by a specific afferent sensory stimulus or an activity undertaken by the patient.
- About 5-6% of patients with epilepsy present with reflex epilepsy.
- Stimulus may be somatosensorial, proprioceptive, praxic or cognitive.
- Reflex seizures may be difficult to control with antiepileptic medication.



Defecation reflex seizures

- Defecation has rarely been reported as a trigger for reflex seizures.
- We describe the third case of epilepsy induced by defecation reported in the literature.
- These may be a diagnostic challenge and postpone specific treatment, leading to misdiagnosis and inappropriately attributing symptoms to syncope.



Defecation reflex seizures

- In our case, we observed convergence of irritative, symptomatogenic and ictal onset zones, pointing to the dominant temporal region.
- The structural and functional connectivity between the temporal lobe and insula may suggest that these are symptomatogenic areas for the clinical presentation of defecation reflex seizures.
- Despite successful seizure control following a correct diagnosis, cognitive, behavioural and quality of life impairments were observed. This seizure type may be unpleasant and stigmatizing for affected patients.

