Dear Editor,

I read the article by Gemici (1) with great interest, in which the author illustrated an interesting patient with cerebral venous thrombosis (CVT) in whom serial electroencephalography (EEG) showed resolution of bilateral frontal intermittent rhythmic delta activity (FIRDA) in accordance with the clinical recovery in the follow-up. In the conclusion of the study, the author suggested that EEG could be used as a noninvasive monitor in the follow-up of such patients with CVT when findings related to structural abnormalities such as FIRDA were found.

I appreciate the author for presenting this interesting case and drawing attention to the interesting aspects of this clinical situation. However, I would like to comment on the article for a better understanding of the report and present some additional perspectives. First, I think that the significance of FIRDA in EEG might have been further discussed in the report. In the referred article, Threlkeld et al. (2) also reported continuous frontally predominant rhythmic delta activity on continuous EEG monitoring, which had become intermittent within minutes of administering mannitol. Remarkably, on anticoagulation therapy and hyperosmolar therapy in the following 48-hour period, EEG normalized alongside improving mental status revealing a good correlation between EEG and the clinical findings of CVT. In early reports, FIRDA was associated with deep midline lesions, and a relationship with increased intracranial pressure (ICP) was hypothesized (3). However, as far as I know, this report of Gemici (1) with the previous report by Threlkeld et al. (2) are the only illustrations mentioning the resolution of FIRDA activity with the recovery of ICP, which surely present a stronger relationship between FIRDA and ICP in terms of causation. I think that the significance of FIRDA and its use in the follow-up of such patients with CVT when findings related to structural abnormalities such as FIRDA were found.

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risk factors for the development of epileptic seizures in CVT (8). In addition, occlusion of the superior sagittal sinus and cortical veins, which drain venous blood from the upper convexity of the brain, including the motor and sensory cortices, also increase the risk of seizures, suggesting disturbed venous malfunction of these regions, which might not result in neuroimaging evidence on magnetic resonance imaging in some patients (8). However, at this point, the issue of whether changes in ICP can solely evoke seizures remains controversial. Besides, there are also some other differing features of CVT from IIH such as decreased intracranial cerebrospinal fluid (CSF) volume, albeit with increased ICP, which was hypothesized to be responsible for the orthostatic headache in patients with CVT (9). Taken together, I think that EEG data may provide crucial perspectives for our understanding of the pathophysiology of epileptic seizures in CVT and unknown CSF dynamics in CVT (besides its potential significance in monitoring ICP). The significance of FIRDA and its possible predictive value in seizure development may be other interesting topics for deliberations in future studies.

A major limitation of this report may be that the detailed laboratory data of the patient were not included in the report. A recent study suggested that FIRDA most frequently occurred with diffuse brain injury, along with mild-to-moderate metabolic impairment (10). Strikingly, half of the patients were reported to have renal failure (10). At this point, I wonder if the author might indicate that a metabolic disturbance was present in the patient, which would provide a clearer understanding of the relevance of FIRDA.

**Ethics**

**Informed Consent:** It was not taken.

**Peer-review:** Externally peer-reviewed.

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**References**