## ■ Multimedia teaching material

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## Generalized periodic discharges with triphasic morphology: to treat or not to treat?

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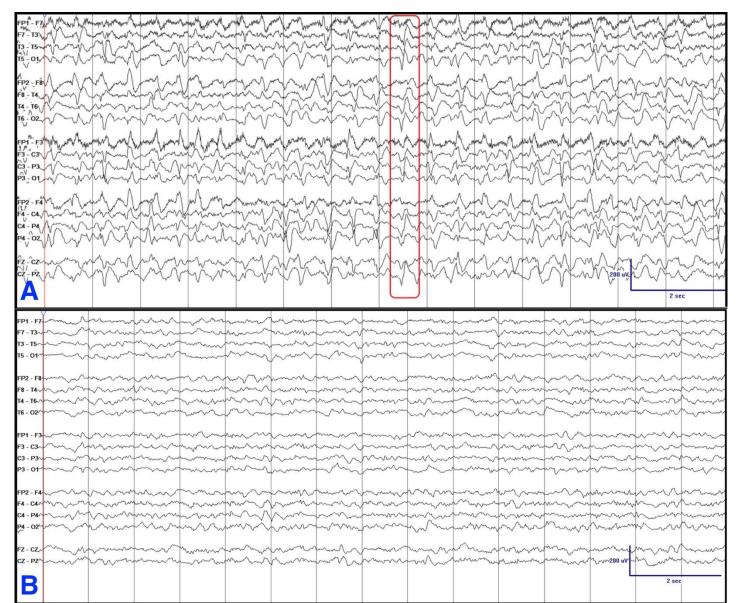


## Vignette

- We report an 82-year-old woman with recurring episodes of confusion, a left posterior fossa meningioma, and chronic hyponatremia due to SIADH.
  She presented with a habitual episode of confusion.
- Basic laboratory workup was unremarkable except for hyponatremia (sodium: 132 mEq/L) and head imaging was unrevealing.
- Continuous-EEG showed 2-Hz generalized periodic discharges (GPDs) with triphasic morphology, or "triphasic waves" (figure 1A).
- She showed improvement in EEG (figure 1B) and mental status following lorazepam at 1 mg, suggesting non-convulsive status epilepticus (NCSE).



## Figure 1





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- Although traditionally associated with toxic-metabolic-infectious encephalopathies, GPDs with triphasic morphology may represent NCSE.
- Select patients should undergo a trial with antiseizure medication to assess for electroclinical improvement. [1, 2]
- Importantly, electrographic improvement alone does not imply a diagnosis of NCSE. [3]

