Teaching Video NeurolImages: Cerebral amyloid angiopathy-related transient focal neurologic episodes

A video-EEG report

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Figure EEG and imaging

(A) Video-EEG recording during one of the 4 transient focal neurologic episodes without any change on EEG. Acute subarachnoid hemorrhage in the right central sulcus: (B) hypointensity on T2* and (C) hyperintensity on fluid-attenuated inversion recovery. (D) Cortical superficial siderosis in right medial occipitotemporal gyrus on T2*. (E) CT angiography discloses no vascular abnormality.

A 77-year-old man, with no trauma history, presented with recurrent transient left arm paresthesia for 2 weeks. Brain MRI showed acute cortical subarachnoid hemorrhage and criteria for probable cerebral amyloid angiopathy (CAA) (figure, video 1). A 24-hour video-EEG recorded 4 transient focal neurologic episodes (TFNE) with the following sequence: paresthesia always starting from the hand and slowly spreading to the arm, the shoulder, and sometimes the perioral area. During these episodes, EEG remains unchanged.

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Although simple partial seizure may not have an EEG correlate, this case supports the hypothesis of focal cortical spreading depression rather than ischemic or epileptic origin of CAA-related TFNE.¹

Author contributions

A. Viguier, P. Girardie, and J. Curot: case report concept and design, drafting the manuscript. A. Viguier, P. Girardie, L. Calviere, and F. Bonneville: patient's clinical assessment, acquisition of clinical and radiologic data. J. Curot, M. Denuelle, and L. Valton: acquisition, analysis, and interpretation of EEG video recording. A. Viguier, P. Girardie, N. Raposo,

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Reference

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