“Lentiform fork sign” in uremic striatopallidal syndrome: a rare cause of parkinsonism

“Sinal da forquilha lentiforme” na síndrome estriatopallidal urêmica: uma causa rara de parkinsonismo

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An 88-year-old diabetic man, with end-stage chronic kidney disease, on dialysis, presented with nausea and diarrhea for 2 days. After this period, the patient’s family sought emergency care due to a significant and acute reduction in movement, dysphonia, and dysphagia. His physical examination was consistent with akinetic-rigid parkinsonian syndrome. A brain magnetic resonance imaging scan was performed, and the lentiform fork sign was identified (Figure 1), which, associated with metabolic acidosis, corroborated the diagnosis of uremic striatopallidal syndrome.

Figure 1  Head computed tomography (CT) scan showing symmetrical hypodensity in the lentiform nuclei bilaterally (A). Brain magnetic resonance imaging (MRI) scan in fluid-attenuated inversion recovery (FLAIR) (B) and T2-weighted (C) sequences demonstrating hyperintensity in the lentiform nuclei bilaterally. The white arrows show T2 and FLAIR hyperintensity in the white matter surrounding the lentiform, representing edema in the internal and external capsules. This finding forms the basis of the fork of the “lentiform fork sign”. Facilitated diffusion can be seen on the diffusion-weighted imaging (DWI) (D) and apparent diffusion coefficient (ADC) (E) sequences. Illustrative representation of a fork (F).

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Uremic striatopallidal syndrome is a rare cerebral complication of metabolic acidosis. It may present in the form of chorea or, more commonly, acute parkinsonism.\textsuperscript{1}

**Authors’ Contributions**
TAPG, PJT: writing and review of the manuscript. All authors approved the final version of the manuscript and agree to be responsible for all aspects of the work.

**Conflict of Interest**
The authors have no conflict of interest to declare.

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**Reference**