Teaching Video NeuroImage: Peculiar Hobby Horse Gait in Huntington Disease—like 2

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Monica S Haddad: Drafting/revision of the manuscript for content, including medical writing for content; Analysis or interpretation of data
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A 59-year-old woman presented at age 48 with abnormal hand movements, which became generalized 1 year later, along with a clumsy gait. Two years later, severe apathy and minor auditory hallucinations ensued. Her father died undiagnosed with involuntary movements at 82 years of age, and two of her six sisters have also had a similar clinical picture. Neurological examination revealed generalized chorea and an unusual dystonic gait pattern remarkably similar to the “Hobby Horse Gait” (HHG), described in DYT-TUBB4A (DYT-4), which is characterized by a toe walking stiff-legged and skipping gait (Video 1). Walking backward improved the gait. Diagnostic workup revealed acanthocytes and mild caudate atrophy (Figure 1). A pathogenic 46 CTG/CAG repeat expansion on the JPH3 gene allowed the diagnosis of Huntington’s Disease-like 2, an autosomal dominant Huntington’s disease phenocopy characterized by chorea, dystonia, and Parkinsonism. This case expands underlying conditions recognized to cause the HHG (please see the Supplement).

Appendix 1: Authors

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<tr>
<th>Name</th>
<th>Location</th>
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References
Figure and video titles and legends

**Figure 1.** Brain CT showed mild bilateral caudate atrophy and anterior horn dilation of lateral ventricles (A, arrows) compared to an age-matched normal control (B).

**Video 1.** Segment 1 displays a gait pattern of stiff-legged and skipping gait, resembling a “Hobby Horse gait” pattern, previously observed in DYT-TUBB4A (DYT-4). Segment 2 shows subtle generalized choreic movements, including the face.
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