Teaching *NeuroImages*: “Penguin” or “hummingbird” sign and midbrain atrophy in progressive supranuclear palsy

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An 82-year-old man presented to us with a 2-year history of progressive difficulty walking. On examination, he had bradykinesia, bradyphrenia, axial rigidity without appendicular rigidity, cogwheeling, or tremor, and restriction of upward and downward gaze. Imaging revealed prominent midbrain atrophy without pontine atrophy, referred to as the “penguin” or “hummingbird” sign (figure), which may be helpful in distinguishing progressive supranuclear palsy from multisystem atrophy, Parkinson disease, and healthy controls.^{1,2}

REFERENCES

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Figure

Midsagittal MRI of the brain demonstrates prominent midbrain atrophy without pontine atrophy (divided by white line), forming the silhouette of the “penguin” or “hummingbird” sign

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