

Section Editor John J. Millichap, MD

# Teaching Video Neuro*Images*: Re-emergent jaw tremor in Parkinson disease

Taku Hatano, MD, PhD Naohide Kurita, MD Manami Kobayashi, MD Nobutaka Hattori, MD, PhD

Correspondence to Dr. Hatano: thatano@juntendo.ac.jp

Supplemental data at Neurology.org

Download teaching slides: Neurology.org A 77-year-old woman who was diagnosed with Parkinson disease at 51 years of age presented with a 4-year history of intermittent jaw tremor. This was present at rest and declined in amplitude during voluntary movements. Tremor reappeared after the patient bit a tongue depressor continuously for 10 seconds (video on the *Neurology*® Web site at Neurology.org). "Re-emergent tremor" is a postural hand tremor that appears after some delay while maintaining a posture and is similar to the classic resting tremor of Parkinson disease. 1 Re-emergent jaw tremor may represent an additional type of tremor characteristic of Parkinson disease.

#### **AUTHOR CONTRIBUTIONS**

T.H. drafted and revised the manuscript, developed the study concept and design, analyzed, interpreted, and helped in data acquisition, and takes responsibility for the conduct of the research and final approval. N.K. participated in the data collection. M.K. participated in the data collection. N.H. revised the manuscript for content.

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#### **REFERENCE**

 Jankovic J, Schwartz KS, Ondo W. Re-emergent tremor of Parkinson's disease. J Neurol Neurosurg Psychiatry 1999; 67:646–650.



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