Teaching Video NeuroImage: One Bedside Test, 2 Clinical Signs

One Vestibular, the Other Ocular Motor

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Figure Caloric Irrigation and Video Head Impulse Test

(A) Caloric irrigation and (B) video head impulse test show a severe vestibulo-ocular reflex deficit.

A 60-year-old patient had progressive imbalance. Examination revealed saccadic smooth pursuit, downbeat nystagmus, ataxia of stance and gait, and reduced vibration sense. Video head impulse and caloric testing both showed vestibulo-ocular reflex (VOR) deficits (figure). The patient has cerebellar ataxia with neuronopathy and vestibular areflexia syndrome.^{1,2} Slow head turns while looking at an earth-fixed target produce saccadic rather than smooth compensatory eye movements (Videos 1) due to impairment of both the VOR and smooth pursuit (the visually enhanced VOR): 1 simple bedside test, 2 clinical signs, and 1 precise diagnosis.

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Go to Neurology.org/N for full disclosures. Funding information and disclosures deemed relevant by the authors, if any, are provided at the end of the article.

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Appendix Authors

Name	Location	Contribution
Michael Strupp, MD	Department of Neurology and German Center for Vertigo and Balance Disorders (DSGZ), Ludwig-Maximilians University, Munich, Campus Grosshadern, Munich, Germany	Observation, conception, recruitment and examination of the patient, interpretation of the data, drafting the manuscript
Claudia Frenzel	Department of Neurology Ludwig-Maximilians University, Munich, Campus Grosshadern, Munich, Germany	Neuro-ophthalmological examination of the patient, interpretation of the data, drafting the manuscript

Appendix *(continued)*

Name	Location	Contribution
Nicolina Goldschagg, MD	Department of Neurology and German Center for Vertigo and Balance Disorders (DSGZ), Ludwig-Maximilians University, Munich, Campus Grosshadern, Munich, Germany	Observation, examination of the patient, taking of the video interpretation of the data, drafting the manuscript
G. Michael Halmagyi, MD	Department of Neurology, Royal Prince Alfred Hospital, University of Sydney, Sydney, Australia	Interpretation of the data, drafting the manuscript

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