

Vestibular paroxysmia presenting with irritative nystagmus

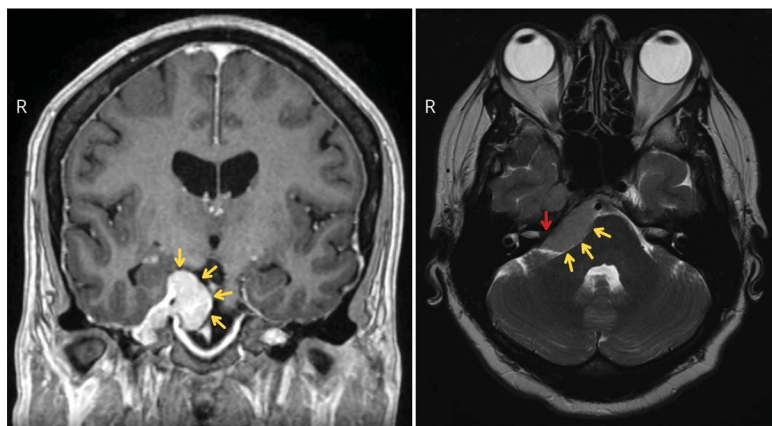
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Figure 1 MRI brain



Postcontrast T1 coronal/axial MRI: right petroclival meningioma (13 × 32 mm), abutting the right vestibulocochlear nerve causing brainstem compression.

A 54-year-old woman with a large right petroclival meningioma (figure 1) reported spontaneous spinning vertigo, oscillopsia, and right-sided “clicking” tinnitus lasting 5–30 seconds, recurring every 5–10 minutes. Examination with video-Frenzel goggles revealed flurries of spontaneous right-beating, horizontal-torsional (irritative) nystagmus, time-locked with vertigo (video 1). Hearing was symmetrical with right vestibular hypofunction affecting all 3 semi-circular canals and the saccule (figure 2). Vestibular paroxysmia was diagnosed and carbamazepine 100 mg BD was prescribed. The patient was asymptomatic at 4 weeks. Eighth cranial nerve neurovascular cross-compression may cause vestibular paroxysmia characterized by brief spells of spontaneous and positional vertigo associated with unilateral audiovestibular deficits.^{1,2}

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Author contributions

Allison Young: acquisition of data, original figure illustrations, revised and approved the manuscript for intellectual content. Benjamin Jonker: acquisition of data, reviewed the clinical case, revised and approved the manuscript for intellectual content. Miriam Welgampola: acquisition of data, reviewed the clinical case, revised and approved the manuscript for intellectual content.

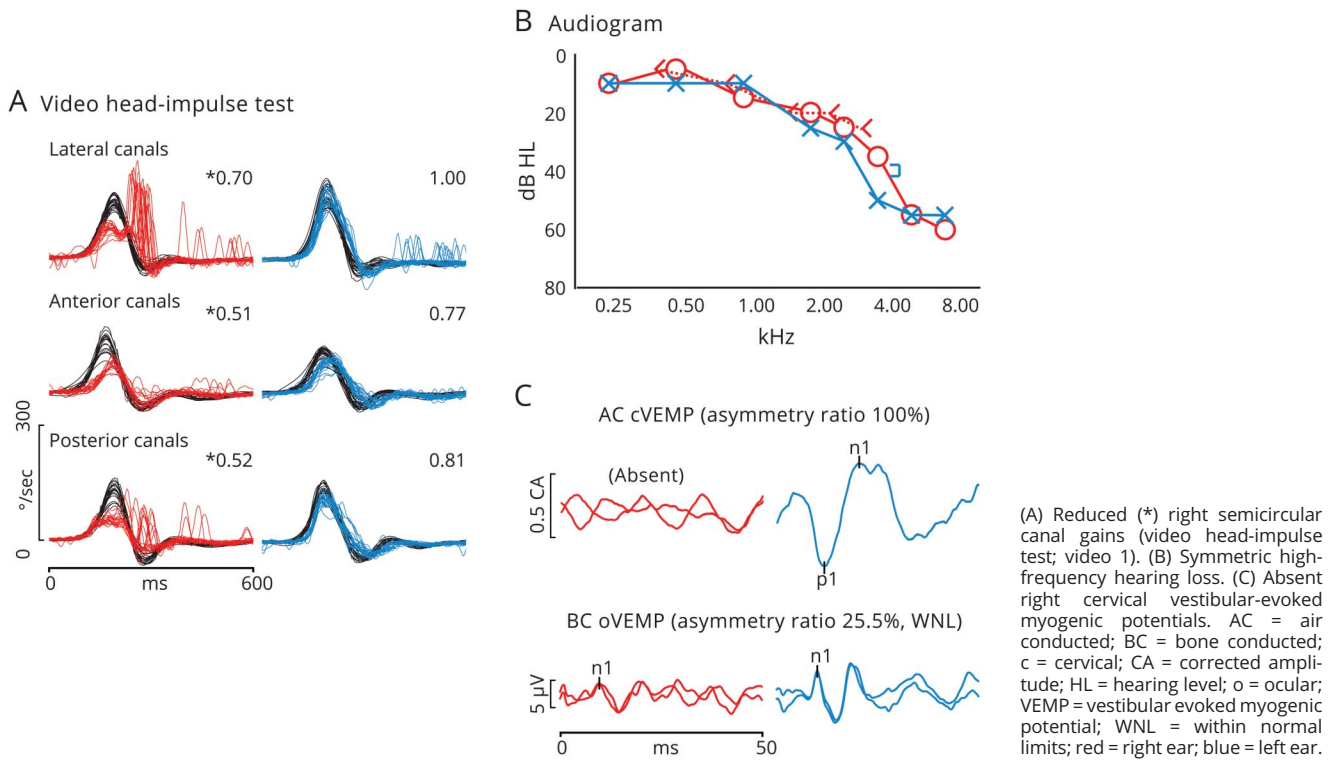
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Figure 2 Audiovestibular test results



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Disclosure

The authors report no disclosures relevant to the manuscript. Go to Neurology.org/N for full disclosures.

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