Transient ocular tilt reaction and Tullio phenomenon

A rare association

Following a whiplash injury, a previously healthy 33-year-old man complained of altered hearing in his right ear. While humming, he noticed a disturbing transient impression of environment tilt and dizziness. Neuro-ophthalmic examination was normal, except while humming (video on the *Neurology*® Web site at Neurology.org). Ear, nose, and throat examination and skull CT were unrevealing.

Ocular tilt reaction (OTR) is an eye-head synkinesis (skew deviation, conjugate ocular torsion, and head tilt) resulting from a lesion or a stimulation of either the graviceptive pathways or otoliths.¹ Tullio phenomenon refers to vestibular symptoms induced by sounds.² Our patient exhibited a transient left OTR during humming, which resulted most likely from right utricular hyperactivity.

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Author contributions: François Thommen: drafting/revising the manuscript, accepts responsibility for conduct of research and final approval. François-Xavier Borruat: drafting/revising the manuscript, accepts responsibility for conduct of research and final approval, acquisition of data.

Study funding: No targeted funding reported.

Disclosure: The authors report no disclosures relevant to the manuscript. Go to Neurology.org for full disclosures.

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**Supplemental data
at Neurology.org**

1. Brandt T, Dietrich M. Vestibular syndromes in the roll plane: topographic diagnosis from brainstem to cortex. *Ann Neurol* 1994;36:337–347.
2. Kaski D, Davies R, Luxon L, Bronstein AM, Rudge P. The Tullio phenomenon: a neurologically neglected presentation. *J Neurol* 2012;259:4–21.

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Neurology 2015;84;2291

DOI 10.1212/WNL.0000000000001649

This information is current as of June 1, 2015

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