A 23-year-old patient with multiple sclerosis on dimethyl fumarate presented with new-onset left-sided hearing loss, vertigo, and tinnitus. Prior to presentation, serial imaging showed no new or active lesions.

Rinne test was positive bilaterally and Weber test was lateralized to the right side. The remainder of the neurologic examination was normal. ENT workup excluded other causes of deafness. Contrast MRI brain revealed an active demyelinating plaque in the left paramedian pons extending to the root entry zone of the VIIIth cranial nerve (figure). This differs from previously reported cases because there is evidence of involvement of the VIIIth nerve fascicle rather than the nerve.

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