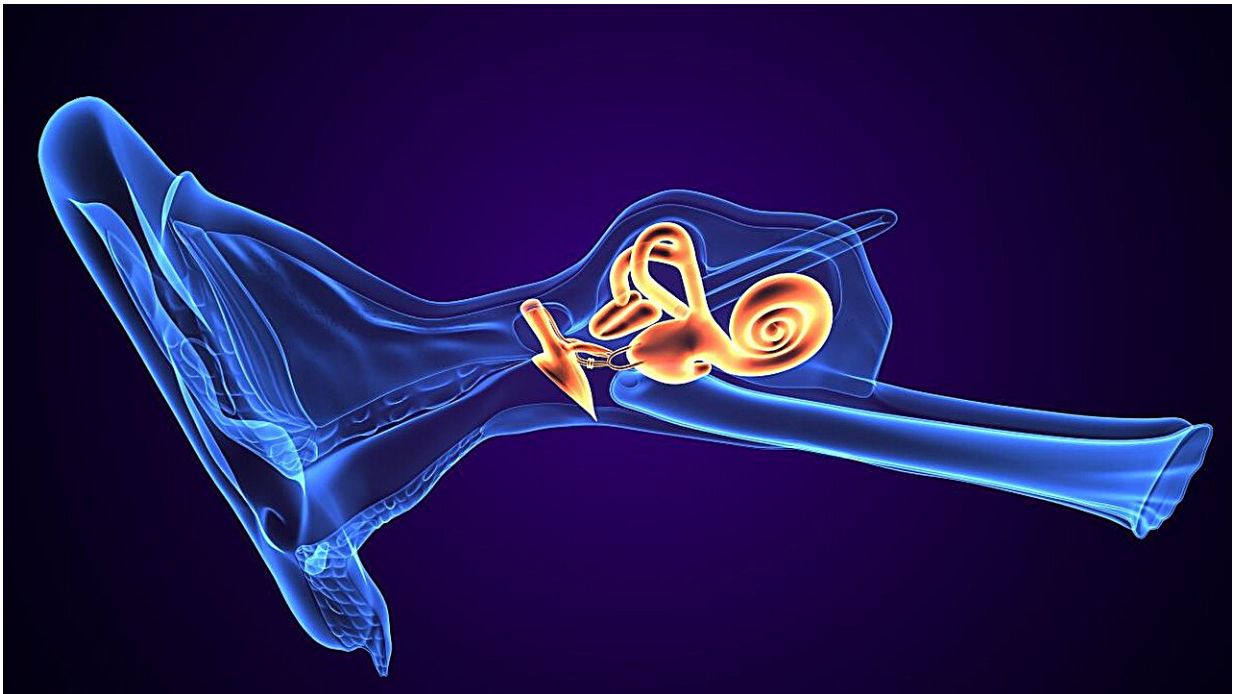


Sacculle-to-utricle ratio inversion may ID early-stage Meniere disease

September 3 2024, by Lori Solomon



The sacculle-to-utricle ratio inversion may serve as an effective imaging marker for diagnosis of early-stage Meniere disease, according to a study published online July 27 in *The Laryngoscope*.

Wenting Deng, M.D., from Sun Yat-Sen Memorial Hospital at Sun Yat-Sen University in Guangzhou, China, and colleagues compared the

saccule-to-utricle ratio inversion in patients with early-stage (56 patients) versus late-stage (70 patients) Meniere disease based on [magnetic resonance](#) imaging.

The researchers found that 46.43 percent of the early-stage group showed an enlarged saccule that was larger than the utricle, with saccule-to-utricle ratio inversion. In the late-stage Meniere disease group, only four individuals (5.71 percent) showed saccule-to-utricle ratio inversion. Within the early-stage Meniere disease subgroup, those with a disease duration of no more than six months had a higher proportion of saccule-to-utricle ratio inversion than the subgroup with a disease duration of more than six months (70 versus 33.33 percent).

"Saccule-to-utricle ratio [inversion](#) may serve as an effective imaging marker for diagnosis of early-stage Meniere disease," the authors write. "Our finding suggests that endolymphatic hydrops in Meniere disease may primarily originate from the saccule."

More information: Wenting Deng et al, Comparing the Saccule-to-Utricle Ratio in Early- Versus Late-Stage Meniere's Disease Patients, *The Laryngoscope* (2024). [DOI: 10.1002/lary.31655](https://doi.org/10.1002/lary.31655)

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