



## Dilated Semicircular Canals Presenting with Microphthalmia as a Constituent of Goldenhar Syndrome in an Elder Patient

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### Abstract

A 52-year-old male patient was admitted with dizziness. On magnetic resonance imaging, bilateral lateral semicircular canals were dilated due to semicircular canal dysplasia. The dimensions of bulbus oculi were reduced bilaterally. In the literature Goldenhar cases have been described in neonates or children with unilateral presentation of microphthalmia. Unlike the literature, our case is diagnosed in elder period with bilateral microphthalmia.

**Keywords:** Semicircular; Dysplasia; Microphthalmia; Elder; Goldenhar; Magnetic resonance imaging

### Case Study

A 52-year-old male patient was admitted to hospital with dizziness. On neurological examination, the patient speech was dysarthric. The patient had a history of infertility. On magnetic resonance imaging, bilateral lateral semicircular canals were dilated due to semicircular canal dysplasia (Figure 1). The dimensions of bulbus oculi were reduced bilaterally (Figure 2). There was a mild scoliosis on MRI. In the literature, CHARGE, Goldenhar syndrome, and Down syndrome are examples of cases semicircular canal dysplasia [1]. In our case, bilateral semicircular canal dysplasia and microphthalmia existed with sterility. Findings were consistent with Goldenhar Syndrome. In the literature Goldenhar cases have been described in neonates or children with unilateral presentation of microphthalmia. Unlike the literature, our case is diagnosed in elder period with bilateral microphthalmia. We emphasize that patients presenting with vestibular symptoms, if

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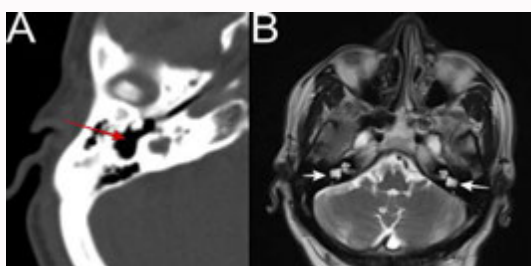
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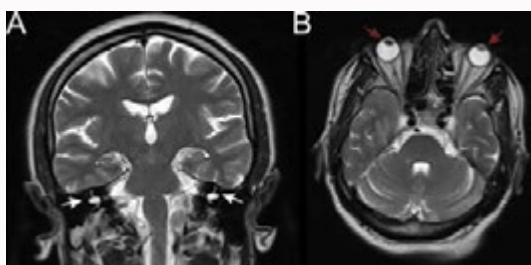
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**Figure 1(A-B):** Bilateral lateral semicircular canals were dilated (white arrows) due to semicircular canal dysplasia (red arrow).



**Figure 2(A-B):** On magnetic resonance imaging, bilateral dilated semicircular canals (white arrows) and microphthalmia (red arrows) were observed.

microphthalmia is accompanied, Goldenhar syndrome should be included in the differential diagnosis, even in the elderly.

Unilateral semicircular canal aplasia in Goldenhar's syndrome. AJNR Am J Neuroradiol. 2000;21(7):1334-6.

## References

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