Concomitant occurrence of vestibular schwannoma and epidermoid tumor

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ABSTRACT

The occurrence of two tumors adjacent to each other at the same site is very rare. We present here, a patient with a vestibular schwannoma found adjacent to an epidermoid tumor in the cerebellopontine angle.

Key words: Cerebellopontine angle, epidermoid, schwannoma

INTRODUCTION

The coincidental occurrence of two tumors in the cerebellopontine angle is rare. We present a case of a vestibular schwannoma and epidermoid tumor in the same patient.

CASE REPORT

The patient was a 38-year-old male who complained of left sided hearing loss since 8 months which was insidious in onset and progressive in nature. The patient also had history of swaying to the left, 3 months prior to admission. There was no history of irritative symptoms such as facial pain or tinnitus. The patient demonstrated profound sensorineural hearing loss in the left ear and mild left cerebellar signs.

Magnetic resonance imaging (MRI) of the brain revealed a lesion isointense on T1 weighted and hyperintense on T2 weighted sequences in the left cerebellopontine (CP) angle, which was enhancing on contrast [Figure 1a-c]. Ventral to the lesion and the brainstem, occupying bilateral prepontine cisterns and the right cerebellopontine cistern a second lesion was noted, which was hypointense on T1 weighted, hyperintense on T2 weighted sequences. While the initial impression was that of an enlarged prepontine cistern, the second lesion was partially inverting on FLAIR. It also showed restricted diffusion when compared to CSF [Figures 1a, b and 2a, b].

A diagnosis of concomitant vestibular schwannoma with epidermoid tumor was made.

The patient underwent a retromastoid suboccipital craniectomy and excision of the schwannoma. Ventral to this tumor, beyond the arachnoid, the pearly white appearance of the epidermoid was noted [Figure 3]. The second tumor was not decompressed since access to the same via the retromastoid approach was limited.

The patient recovered uneventfully with a Grade 2 House and Brackmann facial paresis and was discharged.

DISCUSSION

Vestibular schwannomas are the most common tumors of the cerebellopontine angle, accounting for 70-80% of all tumors seen in the region. Concomitant existence of two tumors however is rare. There have been two reported cases of a vestibular schwannoma coexisting with an epidermoid cyst as a single cerebellopontine angle mass. Saito et al. reported development of a vestibular schwannoma in a patient many years after excision of a cerebellopontine angle epidermoid. This is the fourth such case of a vestibular schwannoma growing adjacent to an epidermoid tumor.

There have been scattered reports of VII and VIII nerve schwannomas coexistent with ipsilateral arachnoid
It is therefore difficult to explain how these two tumors exist simultaneously. Multiple histological types of primary brain tumors may be seen in phacomatoses or perhaps following cranial irradiation. Saito et al. postulated that perhaps the chronic irritation caused by the remnants of the epidermoid following the first surgery in their case may have caused the schwannoma to develop. \[16\]

The evidence to prove a causality or association is however lacking and this may be a coincidental finding in all the above cases.

**REFERENCES**


**How to cite this article:** Saviir Sastri BV, Satish Babu HV. Concomitant occurrence of vestibular schwannoma and epidermoid tumor. Indian J Neurosurg 2013;2:282-3.

**Source of Support:** Nil, **Conflict of Interest:** None declared.