

Dermoid cyst associated with colloid cyst

Intracranial dermoid cyst and colloid cysts of the third ventricle are rare benign congenital lesions of early adulthood. Both lesions are thought to be congenital in origin however association is rare.

Cheng et al. from the Department of Neurosurgery, Stanford University School of Medicine in 1999 reported a case of nasal dermoid sinus cyst associated with colloid cyst of third ventricle and proposed a fascinating theory of "anterior neuropore corridor defects" to explain the spectrum of these associated rare midline lesions. According to this theory, defective closure of situs neuroporicus promotes the neuroepithelium adjacent to commissural plate derivatives to form a vacuolated paraphysis growing slowly as colloid cyst of the third ventricle

The reported case was a 16-year-old male with both a nasal dermoid sinus cyst (NDSC) and a third ventricle colloid cyst. The NDSC was excised via a single-stage combined intracranial-extracranial approach and the third ventricle colloid cyst was resected endoscopically ¹⁾.

Similar derivation from paraphysial remnants was also reported by Nagaraju et al. ²⁾, in 2010 supporting Cheng's hypothesis ³⁾.

Kurwale et al. report a 22-year-old male with suprasellar dermoid cyst and colloid cyst of the third ventricle presenting simultaneously ⁴⁾.

References

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Cheng ML, Chang SD, Pang D, Adler JR. Intracranial nasal dermoid sinus cyst associated with colloid cyst of the third ventricle. Case report and new concepts. *Pediatr Neurosurg*. 1999 Oct;31(4):201-6. PubMed PMID: 10705930.

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Nagaraju S, O'Donovan DG, Cross J, Fernandes H. Colloid cyst of the third cerebral ventricle with an embryological remnant consistent with paraphysis cerebri in an adult human. *Clin Neuropathol*. 2010 May-Jun;29(3):121-6. PubMed PMID: 20423684.

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Kurwale N, Kumar R, Sharma MC, Sharma BS. Suprasellar dermoid cyst associated with colloid cyst of the third ventricle: Disordered embryogenesis or a mere coincidence? *J Neurosci Rural Pract*. 2013 Jul;4(3):345-7. doi: 10.4103/0976-3147.118803. PubMed PMID: 24250183; PubMed Central PMCID: PMC3821436.

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