SYMPTOMATIC RATHKE'S CLEFT CYST: A CASE REPORT

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ABSTRACT

A large Rathke's cyst was marsupialized into the sphenoid sinus of a 45-year-old woman who presented with headache, polydipsia, cessation of menses and diplopia. A brief review of cases is presented.

Keywords: Rathke's cleft cyst, Marsupialization

The CT scan demonstrated a large sellar-suprasellar cyst extending to the sphenoid sinus (Fig. 1).

A sublabial trans-sphenoidal approach was adopted. After opening the sphenoid sinus, the cyst was exposed. First it was punctured and about 20cc of creamy mucinous material aspirated, then the cyst was marsupialized into the sphenoid sinus.

The patient's postoperative course was uneventful. Headache, visual field defect and diplopia improved. The postoperative CT scan revealed decompression of neural elements. The pathological report of the resected sample was compatible with RCC (Fig. 2).

Two years later the patient was asymptomatic but had not resumed menstruation.

DISCUSSION

Small incidental Rathke's cleft cysts are identified between the anterior and posterior lobes of the pituitary gland.
A symptomatic Rathke's cleft cyst is a rare clinical occurrence. It is believed that RCC is derived from Rathke's pouch. Some have suggested that RCC may arise from neuroepithelium, as these cysts exhibit a wide range of histological features that are indistinguishable from colloid cysts. A hypothesis of common embryological origin from endodermal remnants has been proposed suggesting that RCC, colloid cysts and neuroenteric cysts share similar histological and immunohistological features. Suffice it to say that immunochemistry (glial fibrillary acidic protein, carcinoembryonic antigen and cytokeratin) fails to distinguish RCC, neuroenteric cyst and colloid cysts from each other. Although the histological pattern of RCC is usually distinct from that of craniopharyngioma, nevertheless the differentiation of the cyst lined with squamous epithelium is not always easy.

The first report of these cysts was forwarded by Goldziehen. Yoshida et al. in 1977, after reviewing the available literature, collected 34 cases, 19 of whom had been operated on and 15 who had been autopsied. Most cases occur in patients 40 to 60 years old. There was no sex predilection. The presenting symptoms were impairment of visual acuity, visual field defect, hypopituitarism, headache, diabetes insipidus, diplopia and dwarfism.

Our case presented with full-blown symptoms of a sellar-parasellar lesion, including headache, diplopia, bitemporal hemianopia, hypopituitarism, polydipsia and cessation of menses.
Parasellar cysts such as RCC, mucocele and arachnoid cyst should be differentiated by imaging studies preoperatively. CT scans performed for RCC demonstrate a hypodense intra- and suprasellar cyst with enhancement of the wall. MRI has shown these cysts to possess the same intensity of CSF in a number of cases.\(^1\)

The size of these cysts have been reported so far to be between 8-20 mm.\(^2\) Our case had a large cyst, 50 mm in largest diameter. The cyst was marsupialized into the sphenoid sinus in order to prevent its recollection.

REFERENCES
