Certainly, other sources of the fungus are possibilities and the authors postulate that a wick of anterior capsule in the wound probably acted as a nidus and a portal of entry. In any case early diagnosis with persistent and sustained antifungal therapy resulted in an extremely favourable outcome.

References

- Tabbara KF, Al Jabbarti AL. Hospital construction-associated outbreak of ocular aspergillosis after cataract surgery. Ophthalmology 1998;105:522–6.
- Kwon-Chung KJ, Bennet J. Aspergillosis. In: Kwon-Chung KJ, Bennet J, editors. Medical mycology. Philadelphia: Lea & Feibiger, 1992:201–3, 219–23.
- Valenton, M. Wound infection after cataract surgery. Jpn J Ophthalmol 1996;40:447–55.
- Paulose KO, et al. Mycotic infection of the ear (otomycosis): a prospective study. J Laryngol Otol 1989;103:30–5.
- Weishaar PD, Flynn HW Jr, Murray TG, Davis JL, Barr CC, Gross JG, et al. Endogenous Aspergillus endophthalmitis: clinical features and treatment outcomes. Ophthalmology 1998;105:57–65.
- Graham DA, Kinyoun JL, George DP. Endogenous Aspergillus ophthalmitis after lung transplantation. Am J Ophthalmol 1995;119:107–9.
- Hunt KE, Glasgow BJ. Aspergillus endophthalmitis: an unrecognised endemic disease in orthoptic liver transplantation. Ophthalmology 1996;103:757–67.
- 8. Katz G, Winchester K, Lam S. Ocular aspergillosis isolated in the anterior chamber. Ophthalmology 1993;100:1815–9.

Naveen K. Kermani, FRCSEd Shashi P. Aggarwal
Department of Ophthalmology
Guest Hospital
Tipton Road
Dudley DY1 4SE
West Midlands, UK

Sir,

Incomplete bitemporal hemianopia without headache: an unusual case of pituitary apoplexy

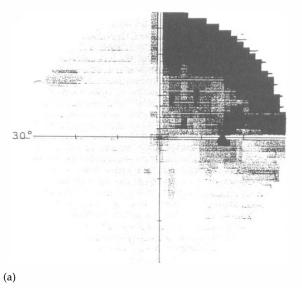
Pituitary apoplexy is a well described but uncommon clinical syndrome resulting from a sudden enlargement

of a pituitary adenoma due to haemorrhage or infarction. Usually, pituitary apoplexy is accompanied by the sudden onset of headache with meningeal irritation, and frequently followed by visual impairment and ophthalmoplegia. ¹⁻⁴ However, these symptoms may not be present and therefore misdiagnosis of the disease frequently occurs. Such a delay in diagnosis may lead to visual impairment because an early diagnosis and subsequently surgical decompression of the sellar region within a few days of apoplexy is of major importance in restoring vision and severe pituitary failure. ⁵⁻⁷

Here we report a patient with an unusual presentation of pituitary apoplexy without headache or other general symptoms. The visual field deficit in both eyes was characterised as being chiasmatic and the CT scan led us to the correct diagnosis within 4 h.

Case report

An otherwise healthy 27-year-old man was referred to our hospital because of the acute onset of blurred vision. He denied any headache or double vision. He also denied any neurological or endocrinological symptoms. Ophthalmic examination showed a visual acuity of 20/20 in the right eye and 20/600 in the left. There was no improvement with pinhole. Ocular motility examination was normal. No intraocular abnormalities were seen in either eye and there was no relative afferent pupillary defect. Perimetry showed incomplete bitemporal hemianopia (Fig. 1). A cerebral CT scan was immediately done and showed a sellar tumour with hypodense areas as a sign of a haematoma (Fig. 2). Based on these findings the diagnosis of pituitary apoplexy was made and transsphenoidal decompression of the sellar region was performed 16 h after the patient had initially experienced blurred vision. Surgery was performed without any intraoperative complications. On the first post-operative day visual acuity in the left eye improved to 20/30 and in neither eye was any visual field defect noted (Fig. 3).



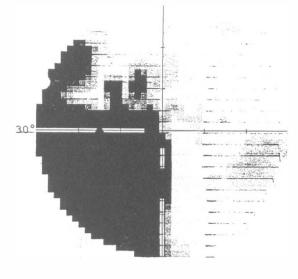


Fig. 1. Visual field before surgery showing an incomplete bitemporal hemianopia. (a) Right eye; (b) left eye.

(b)



Fig. 2. CT scan showing pituitary adenoma with haemorrhage (arrowed).

Comment

The incidence of pituitary adenoma is around 15% of all symptomatic intracranial neoplasms. Although uncommon before the age of 20 years, their incidence increases with age after the fourth decade of life. Autopsy studies have shown that the prevalence of asymptomatic pituitary adenomas may be as high as 27% and that adenomatous hyperplasia may be found in almost every pituitary gland.⁸ Pituitary apoplexy is a rare complication of pituitary adenoma with a frequency between 0.6% and 10% of operated adenomas.^{6,9} The classical clinical appearance of pituitary apoplexy with the sudden onset of headache, often accompanied by vomiting and signs of meningitis, is well recognised, but not always present. Therefore, misdiagnosis of apoplexy is not uncommon. A further cause for confusion is the absence of clinical features of an endocrinological disorder.3,4

Visual impairments are very common at clinical onset and are the most important clinical features of pituitary apoplexy. Depending on the location these visual impairments are shown as a visual field defect that characterises the lesion as being chiasmatic if the growth of the pituitary mass is superior or as ocular motility defects due to inferior growth and cavernous sinus compression.⁴ Therefore, for the correct diagnosis a careful demonstration of a visual field deficit related to

the sellar region or abnormalities in ocular motility is of critical importance. A following CT scan permits the diagnosis of pituitary apoplexy. ¹⁰

References

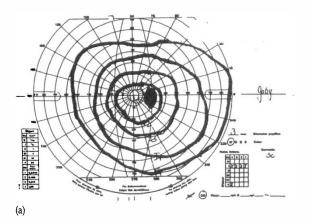
- Millazzo S, Toussaint P, Proust F, Touzet G, Malthieu D. Ophthalmic aspects of pituitary apoplexy. Eur J Ophthalmol 1996;6:69–73.
- Brougham M, Heusner AP, Adams RD. Acute degenerative changes in adenomas of the pituitary body: with special reference to pituitary apoplexy. J Neurosurg 1950;7:421–39.
- 3. Ahmed M, Rifai A, Aj-Jurf M, Akhtar M, Woodhouse N. Classical pituitary apoplexy: presentation and a follow-up of 13 patients. Hormone Res 1989;31:125–32.
- 4. Cardoso ER, Peterson EW. Pituitary apoplexy: a review. Neurosurgery 1984;14:363–73.
- 5. McFadzean RM, Doyle D, Rampling R, Teasdale E, Teasdale G. Pituitary apoplexy and its effect on vision. Neurosurgery 1991;29:669–75.
- Bills DC, Meyer FB, Laws ER, Davis DH, Ebersold MJ, Scheithauer BW, et al. A retrospective analysis of pituitary apoplexy. Neurosurgery 1993;33:602–9.
- Arafah BM, Harrington F, Madhoun ZT, Selman WR. Improvement of pituitary function after surgical decompression for pituitary tumor apoplexy.
 J Clin Endocrinol Metab 1990;71:323–8.
- 8. Burrow GN, Wortzman G, Rewcastle NB, et al. Microadenomas of the pituitary and abnormal sellar tomograms in an unselected autopsy service. N Engl J Med 1981;304:156–8.
- 9. Kaplan B, Day AL, Quisling R, Ballinger W. Hemorrhage into pituitary adenomas. Surg Neurol 1983;20:280–7.
- Naidich TP, Pinto RS, Kushner MJ, Lin PJ, Kricheff II, Leeds NE, Chase NE. Evaluation of sellar and parasellar masses by computed tomography. Radiology 1976;120:91–9.

Chris P. Lohmann¹
Markus Köhler²
Odo-Winfried Ullrich²
¹Department of Ophthalmology
²Department of Neurosurgery
University of Regensburg
Regensburg, Germany

Dr Chris P. Lohmann, MD, PhD Muniversitäts-Augenklinik Franz-Josef-Strauss-Allee D-93042 Regensburg, Germany

Tel: +49 941 9449201 Fax: +49 941 9449202

e-mail: chris.lohmann@klinik.uni-regensburg.de



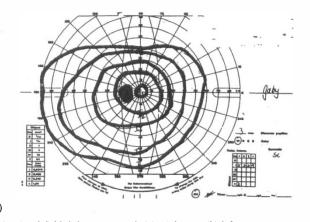


Fig. 3. Visual field 1 day after decompression of the sellar region. No visual field defect was noted. (a) Right eye; (b) left eye.