IgG4-related disease presenting with headache and papilloedema

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DESCRIPTION

A previously healthy man aged 57 years presented with a 4-week duration of predominant decubitus daily holocranial headache after minor head injury. Apart from unintentional weight loss of 8 pounds, there were no associated constitutional or systemic manifestations. The general and neurological examination was unremarkable. The funduscopy showed bilateral grade 2 papilloedema. Brain magnetic resonance (MRI) findings are shown in figure 1A-E. The brain MRI showed the presence of diffuse dural thickening (figure 1B-E) hypointense on unenhanced T1 imaging (figure 1B-F), with dural enhancement on T1-weighed imaging (figure 1B–F). The opening cerebrospinal fluid (CSF) pressure was 380 mm Hg. With the exception of serum-elevated IgG4 immunoglobulin (IgG4=302 mg/dL) and elevated CSF protein level (68 mg/dL), the wide and extensive complementary study including body positron emission tomography scan, laboratory blood/CSF work-up was negative, excluding neoplastic, infectious, autoimmune and collagen vascular disorders. Meningeal biopsy showed fibrous thickening with moderate and predominant B and T cells inflammatory infiltrate. The patient improved with spinal taps evacuation and methylprednisolone treatment.

Intracranial hypertrophic pachymeningitis is a severe and rare manifestation in the spectrum of IgG4-related diseases.^{1 2} Biopsy of meninges is the gold standard for the diagnosis.³ Exclusion of systemic inflammatory disorders and demonstration elevated serum IgG4 can support the diagnosis in patients with typical diffuse dural thickening.^{1 3} The disease responds to immunosuppressive drugs such as corticosteroids, methotrexate, azathioprine, mycophenolate or cyclophosphamide.^{1 2} Mass effect due to dural thickening can cause progressive neurological debilitation, blindness and cerebellar ataxia. In the case of symptomatic hydrocephalus, surgical exploration for decompression may be required.¹⁻³

Learning points

- Intracranial hypertrophic pachymeningitis is a severe and rare manifestation in the spectrum of IgG4-related diseases.
- The disease responds to immunosuppressive drugs such as corticosteroids, methotrexate, azathioprine, mycophenolate or cyclophosphamide.

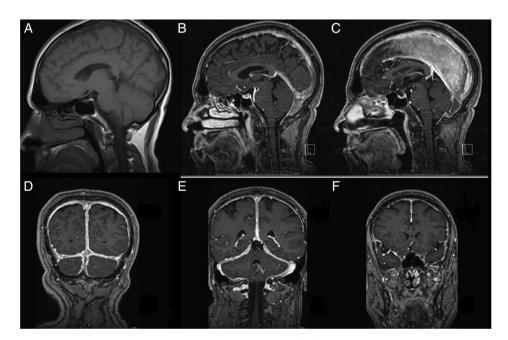


Figure 1 Sagittal (A) T1-weighed imaging showing the presence of diffuse meningeal thickening. On sagittal (B,C) and posterior to anterior coronal (D–F) gadolinium-enhanced T1-weighed imaging, there is marked infratentorial and supratentorial diffuse meningeal enhancement.



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REFERENCES

- Vasaitis L. IgG4-related disease: a relatively new concept for clinicians. *Eur J Intern* Med 2016;27:1–9.
- 2 Lu LX, Della-Torre E, Stone JH. IgG4-related hypertrophic pachymeningitis: clinical features, diagnostic criteria, and treatment. JAMA Neurol 2014;71:785–93.
- 3 Lindstrom KM, Cousar JB, Lopes MB. IgG4-related meningeal disease: clinico-pathological features and proposal for diagnostic criteria. *Acta Neuropathol* 2010;120:765–76.

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