

Letter to the Editor**A case of idiopathic granulomatous hypophysitis****Nilufer Ozdemir Kutbay,¹ Mustafa Berker,² Figen Soylemezoglu,³
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Dear Sir,

Hypophysitis is a rare disease of the pituitary gland whose incidence is 1 case per 9 million people per year.¹ Hypophysitis, which can be categorized as primary (idiopathic) hypophysitis and secondary hypophysitis, may develop through systemic inflammatory disorders such as tuberculosis, Wegener's granulomatosis and sarcoidosis.² Based on histologic features there are two main types of hypophysitis: lymphocytic and granulomatous. Three rare forms have been described, namely IgG4-related hypophysitis, necrotizing hypophysitis and mixed forms.³ Granulomatous hypophysitis, first described in 1917 by Simmonds,⁴ has an incidence of 1 in 10 million and constitutes less than 1% of all pituitary disorders.⁵ Unlike lymphocytic hypophysitis, there is no sex preference. The mean age of diagnosis is 20 yr for females and 50 yr for males. This disorder is characterized by necrotizing granulomas that are formed by histiocytes and plasma cells surrounding

areas of necrosis.⁶ It is easily initially diagnosed as a pituitary adenoma, this based on nonspecific radiological features. We would like to report a rare case of idiopathic granulomatous hypophysitis presenting as a sellar mass and associated with hypopituitarism.

A 34-year-old male visited the endocrine clinic complaining of headache, fatigue and loss of libido. On physical examination his blood pressure was 120/70 mmHg and his pulse rate was 64 beat/min. Central obesity was present. The results of his hormone tests were as follows: TSH: 1.27 μ IU/ml, fT4: 0.582ng/dl, fT3: 1.88pg/ml, ACTH: 14.8pg/ml, cortisol: 9.05ug/dl, LH: 0.81mIU/ml, FSH: 0.97mIU/ml, prolactin: 22.23ng/ml, GH: 0.086ng/ml, IGF-1: 98 (115-307) ng/ml. His urine density was 1013. After the detection of hypopituitarism, a hypophysis magnetic resonance imaging (MRI) was requested. The MRI showed a macroadenoma located in the adenohypophysis. The tumor, measuring 15 \times 9 \times 10mm, had pushed the normal parenchyma inferiorly pressing it into a tape-like form and the infundibulum slightly towards the superiorly (Figure 1). The patient first received steroid treatment followed by thyroid hormone replacement treatment and was referred to the neurosurgery department. A total adenoma excision was performed using the endoscopic endonasal transsphenoidal technique. The pathology test result revealed lymphoplasmacytic cell infiltration that had extensively damaged the adenohypophysis and non-necrotizing granuloma containing Langerhans-type multinucleated giant cells. Gomori metanamin silver, periodic acid-Schiff and asidoresistant bacilli

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