Neurosarcoidosis presenting as a large dural mass lesion

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DESCRIPTION

A woman aged 52 years presented with episodic holocranial headaches with recurrent episodes of diminution of vision in the right eye and decreased sensation on the right side of face for the past 1 year. Clinical examination revealed optic atrophy in the right eye and sensory loss on the ophthalmic and maxillary division of the trigeminal nerve. MRI brain revealed extensive nodular enhancement on T1-weighted contrast images predominantly involving the dura around bilateral temporal lobes, right fronto-basal area and bilateral cavernous sinuses (figure 1). CT scan of the chest showed multiple lung nodules and mediastinal lymphadenopathy. Cerebrospinal fluid examination, cryptococcal antigen, vasculitic screen, HIV serology and serum ACE levels were all in normal range.

As MRI brain demonstrated extensive thickening of the dura matter, the possible differentials of tuberculous, non-infectious inflammatory causes like sarcoidosis and meningioma en plaque was kept. Dural biopsy was performed which revealed numerous discrete epithelioid cell granulomas along with foreign body and Langhans type of giant cells with negative staining for acid-fast bacilli and fungus, consistent with a diagnosis of sarcoidosis (figure 2). The patient was treated with steroids. During follow-up, the patient was headache-free and facial sensation recovered, but her vision did not improve.

Learning points

▸ Neurosarcoidosis can present like a mass lesion.
▸ All efforts should be made to obtain a biopsy and confirm with histopathological diagnosis.

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