Orbital Myositis and Primary Sjögren Syndrome

To the Editor:

In this report, we describe a new systemic manifestation associated with primary Sjögren syndrome (pSS): orbital myositis (OM). Considered a systemic disorder, pSS is primarily characterized by lymphocytic infiltration of exocrine glands, resulting in functional impairment of salivary and lacrimal glands. The inflammatory process, however, extends beyond the exocrine glands and can potentially affect any organ.

A 40-year-old white man with pSS was admitted with diplopia. Since 2002, his disease manifested with sicca syndrome, polyarthralgia, anti-nuclear antibodies, and anti-SSA and -SSB antibodies, and lymphocytic sialadenitis (focus score of 1) associated with Hashimoto thyroiditis. He previously developed 2 neurological complications: aseptic meningoradiculitis following treatment with infliximab in 2002 (in the Trial of Remicade in Primary Sjögren’s Syndrome randomized clinical trial)1, and bilateral idiopathic sudden sensorineural hearing loss in 2010.

In January 2014, he presented with vertical, binocular diplopia with conjunctival hyperemia, palpebral edema, and polyarthralgia. Examination revealed infracentimetric axillary and inguinal lymphadenopathies without parotid gland swelling. Ophthalmologic examination did not reveal ophthalmomoglia, visual field defect, or accommodative trouble; slit lamp and retinal examination was normal. Pupil light reflexes were normal. Clinical examination was otherwise normal. Cerebral magnetic resonance imaging (MRI) revealed infracentimetric axillary and inguinal lymphadenopathies without parotid gland swelling. Ophthalmologic examination did not reveal ophthalmomoglia, visual field defect, or accommodative trouble; slit lamp and retinal examination was normal. Pupil light reflexes were normal. Clinical examination was otherwise normal.

In Primary Sjögren’s Syndrome randomized clinical trial1, and bilateral OM was diagnosed. Hydroxychloroquine 400 mg/day was initiated to prevent relapse without prednisone because of spontaneous regression of symptoms. Six months later, clinical examination confirmed complete resolution.

OM is a rare idiopathic inflammatory disease, classified as part of orbital inflammatory disease2,3 and defined by inflammation of the extraocular muscles. Clinical characteristics include orbital pain, diplopia, proptosis, swollen eyelids, and conjunctival hyperemia. Recognized causes are autoimmune thyroid (Graves disease), antineutrophil cytoplasmic antibodies-associated vasculitis, sarcoidosis, and systemic lupus erythematosus4,5,6, and recently, observations of OM have been described in IgG4-related disease7. Several inflammatory diseases have also been reported associated with OM: Crohn disease and Behçet disease. Differential diagnoses include orbital cellulitis, non-Hodgkin lymphomas, metastatic solid cancer, and melanoma. To our knowledge, this is the first case report of OM in the context of pSS.

Of the autoimmune diseases, pSS is most commonly associated with non-Hodgkin lymphoma8. We here described an atypical ocular manifestation, initially suggestive of lymphoma, but investigation and spontaneous regression revealed a new extraglandular association with pSS that is idiopathic myositis.

REFERENCES


Figure 1. Inflammatory edema of the right superior rectus orbital muscle on cerebral MRI T2-weighted coronal sequence. MRI: magnetic resonance imaging.


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