Isolated and Recurrent Peripheral Facial Palsy Revealing Primary Sjogren’s Syndrome

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Abstract
Peripheral facial palsy (PFP) is often idiopathic; a secondary systemic cause is noted in less than 1.2% of cases. Primary Sjögren’s Syndrome (PSS) remains an exceptional and often insufficiently known etiology of facial paralysis, and only a few sporadic cases are reported in the medical literature. These inaugural forms of the disease represent a real diagnostic challenge for clinicians. We report an original observation of isolated and recurrent PFP as inaugural symptom of PSS in a 53-year-old female with no notable pathological history.

Keywords: Peripheral facial palsy; Primary Sjögren’s syndrome; Facial paralysis; Neuro Sjogren

Introduction
Primary Sjögren’s syndrome (PSS) is an autoimmune disease characterized by focal lymphoid infiltration of the exocrine glands, mainly manifested by dry ocular and oral syndrome [1]. During the course of the disease, one-third of the patients develop extra-glandular lesions: pulmonary, neurological, renal, hepatic and cardiac, which signal the systemic nature of this disease and condition its prognosis [2,3]. The prevalence of this connective tissue disease is estimated at 1-3% of the general population [1,4] and can reach as much as 4.8% in Europe [2]. The neurological manifestations of this disease are observed in 15-20% of cases and are highly polymorphic and far dominated by peripheral neuropathy [5-8].

The spectrum of PSS-associated neurological manifestations may include: multiple mononeuropathy, symmetrical axonal sensorimotor polyneuropathy, sensory ataxic neuropathy, painful sensory neuropathy, cranial neuropathy, autonomic neuropathy, radiculoneuropathy, aseptic meningitis, encephalopathy, psychiatric symptoms, chorea, seizures, chronic myelopathies, multiple sclerosis-like syndrome, and cognitive impairment [5-8]. Neurological involvement may be the first manifestation of PSS in approximately 25% of cases [7]. Of all the possible neurological manifestations of PSS, peripheral facial palsy (PFP) remains exceptional and unusual [9], and only a few sporadic cases were reported in the medical literature [9-12]; these inaugural forms of the disease represent a real diagnostic challenge for clinicians. We report an original observation of isolated and recurrent PFP as inaugural symptom of PSS.

Case Report
A 53-year-old Tunisian patient, with no notable pathological history, was referred to our department for recurrent PFP. She was treated by her family doctor for three episodes of PFP occurring within a year and a half without any other associated abnormalities. This PFP was right in two times and left in one time. The etiological investigations requested by his treating physician, including a specialized ENT examination and a cerebral CT-scan, were without abnormalities. The diagnosis of idiopathic PFP (Bell’s palsy) was retained. The patient was treated with short course corticosteroid and vitamin therapy but without improvement.

In somatic examination, the patient was apyretic, with correct conscious, respiratory, and hemodynamic status. We noted a marked dryness of the skin and the tongue.
Laboratory tests revealed a marked biological inflammatory syndrome with erythrocyte sedimentation rate at 68 mm/H1, C-reactive protein at 18 mg/l, and polyclonal hypergammaglobulinemia at 24.6 mmol/l. The other basic tests were within normal limits: blood count, creatinine, serum calcium, ionogram, fasting glucose, transaminases, muscle enzymes, lipid parameters, and thyroid hormones. Immunological exploration showed positive anti-nuclear autoantibodies at 1/640 with positive anti-SSA antibodies at 50 IU. The specialized ophthalmologic examination objectified xerophthalmia with bilateral filamentous keratitis and a positive Schirmer’s test.

Biopsy of the accessory salivary glands showed a stage 3 chronic sialadenitis according to the Chisholm classification. Thus, the diagnosis of PSS was retained based on the following criteria: xerophthalmia, xerostomia, positive ophthalmologic tests, stage 3 chronic sialadenitis, and positive anti-nuclear and anti-SSA antibodies. Cerebrospinal fluid analysis and cerebromedullary MRI did not show signs suggestive of specific neurological involvement of PSS (neuro-Sjögren). Similarly, other systemic complications of PSS and a possible lymphomatous transformation were eliminated by specific investigations. At the end of this assessment, the diagnosis of a recurrent and isolated PFP revealing PSS was retained. The patient was treated with systemic corticosteroid therapy at a dose of 1 mg/kg/day and hydroxychloroquine at a dose of 400 mg/d, salicylic acid at a dose of 100 mg/d, and symptomatic treatment of xerophthalmia and xerostomia, with favorable evolution. No recurrence of the PFP has been noted for five years now.

Discussion

PFP is often idiopathic (Bell’s palsy or FRP); a secondary systemic cause is noted in less than 1.2% of cases [13]. PSS remains an exceptional [11] and often insufficiently known etiology of facial paralysis [11,14]. Indeed, only a few sporadic cases have been reported in the literature [9-12,15]. In large series of PSS, this neurological manifestation remains unusual: in fact, only two cases of PFP associated with PSS were found in the series of Teixeira F et al of 93 patients followed for PSS [14], no case has been noted in the European series of 392 patients with PSS of whom 74 had neuro-Sjögren’s [8], and no case of PFP was reported in the Ye W et al series of 566 patients with PSS of whom 184 had neurological signs [6]. PSS-associated PFP can be uni- or bi-lateral [12], episodic or most often recurrent [11], isolated or more often integrated in the framework of a complex neurological attack [11] and can remain for a long time the only manifestation of the disease [11,15]. PFP associated with PSS usually responds well to systemic corticosteroids and others specific therapies for this autoimmune disease.

These forms of isolated and SSP-revealing cranial neuropathies are often ignored and neglected by clinicians, and thus sometimes responsible for a very important diagnosis delay [16]. The exact pathophysiology of this neuropathy is not very well known. It appears to be multifactorial involving vasculitis, autoimmunity, inflammation, and cryoglobulinemia [4,5]. A reported case of PSS-associated PFP involved, in addition to these classic pathogenic factors, a vitamin B12 deficiency [11]. Finally, it should be kept in mind that a PFP for rapid onset and/or progression during PSS should raise concerns about the lymphomatous transformation of this disease [17].

Conclusion

Peripheral facial palsy is an exceptional and uncommon neurologic complication of PSS. The isolated and inaugural forms are often ignored by health practitioners and represent a real diagnostic challenge. It is thus necessary to evoke the diagnosis of PSS in front of any PFP that does not proven, particularly if recurrent and in elderly. Early diagnosis and adequate management can improve the prognosis of this disease, especially that a lymphomatous transformation can be announced by a PFP arising and/or progressing rapidly.

References


