ISSN: 2474-3682

Ilhame et al. Clin Med Img Lib 2017, 3:076 DOI: 10.23937/2474-3682/1510076

> Volume 3 | Issue 3 Open Access



Clinical Medical Image Library

IMAGE ARTICLE

Extra-Cephalic Involvement in the Syndrome of Parry Romberg

Naciri Ilhame*, Ebongo Christelle, Meziane Mariam, Senouci Karima and Hassam Badredine

Department of Dermatology-Venereology, Ibn Sina University Hospital, Mohammed V University, Rabat, Morocco



*Corresponding author: Naciri Ilhame, Department of Dermatology-Venereology, Ibn Sina University Hospital, Mohammed V University, Rabat, Morocco, Tel: 00-2126-4530-7037, E-mail: ilhamenaciri@hotmail.com

Abstract

Parry-Romberg Syndrome (PRS) is an uncommon disorder characterized by a slowly and acquired progressive atrophy involving skin, soft tissue, cartilage, and bony structures. Accompanying atrophies of the other parts of the body are rarely reported. We report an extremely unusual case with PRS associated with contralateral lower extremity atrophy.

Keywords

Parry romberg syndrome, Facial haematrophy, Extra-cephalic involvement, Lower limb, Scleroderma

Introduction

Accompanying atrophies of the other parts of the body in the SPR are rarely reported [1]. We report an extremely unusual case with PRS associated with contralateral lower extremity atrophy, complicated by dorso-lumbar scoliosis and inequality of the 2 lower limbs.

Clinical Case

A 12-year-old girl, with no significant antecedent, the youngest of a sibling group of three children, whose parents had no consanguineous relationship, consulted for a deformity of the chin progressively evolving for 2 years. The clinical examination revealed a straight hemiatrophy of the chin and the mandibular region without cutaneous in duration and without dental repercussions (Figure 1). It also had a homolateral temporal cicatricial alopecia, a 4 mm achromic macule in the right preauricular (Figure 2), and multiple supple and foldable hyperpigmented plaques on the neck, trunk, flanks and folds. The rest of the somatic examination revealed no abnormalities, other than a discreet scoliotic attitude of the lumbar spine (Figure 3). Antinuclear autoantibodies were positive at 1/80. The serology of borreliosis was negative. The cutaneous biopsy of the achromic macula was in favor of vitiligo. The scan of the

facial mass demonstrated a discreet atrophy of the soft straight jaw parts without osseous involvement. The spinal teleradiography was in favor of dorso-lumbar scoliosis by inequality of the 2 lower limbs, with a 14 mm shortening of the left lower limb without apparent bone lesions.

Electroencephalogram, ultrasound of supra-aortic trunks, and cerebral MRI were normal. A systemic treatment with corticosteroids of 0.5 mg/kg/day and Methotrexate at 12.5 mg/week was initiated. The progression was satisfactory, with the end of the progression of atrophy, within a follow-up of 18 months. A facial lipostructure for morphological restoration is expected after stopping growth.

Comments

Parry-Romberg Syndrome (PRS), also known as progressive facial hemiatrophy, is a rare, sporadic condition frequently seen in women [2]. It appears towards the first or second decade, to gradually evolve for years (2-10 years) before stabilizing [2,3]. Clinically, it is characterized by progressive hemifacial atrophy, skin involvement, adipose tissue, muscles and sometimes adjacent bone tissue, where usually involving dermatomes of one or more branches of the fifth cranial nerve (V) [1], with a higher frequency of reaching the



Citation: Ilhame N, Christelle E, Mariam M, Karima S, Badredine H (2017) Extra-Cephalic Involvement in the Syndrome of Parry Romberg. Clin Med Img Lib 3:076. doi.org/10.23937/2474-3682/1510076

Received: September 21, 2017; Accepted: November 04, 2017; Published: November 06, 2017

Copyright: © 2017 Ilhame N, et al. This is an open-access content distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

DOI: 10.23937/2474-3682/1510076 ISSN: 2474-3682



Figure 1: Right hemifacial atrophy (interesting the territory of mandibular branches of the fifth cranial nerve).



Figure 2: Right temporal scar alopecia, with a 4 mm achromic macula on the right preauricular region.



Figure 3: Scholastic attitude of the lumbar spine.

left side [2]. However, other sites have also been documented, including the neck, shoulders, chest, and lower limbs [4]. Our patient had a right hemifacial lesion (V3 territory) with an extension of the atrophy towards the contralateral lower limb, which was rarely previously described in the literature [1,5,6]. Treatment of SPR can be difficult. The main objective is to stop the progression of atrophy. Once the disease is stabilized, other aesthetic therapies can be used to repair tissue damage and decrease facial asymmetry [2,3]. The etiology of the SPR is still poorly understood and controversial. Some authors believe that this syndrome is a form of scleroderma, while others think it is a different entity [1]. However, many theories of the pathogenic mechanism explaining amyotrophy have been raised: genetic predisposition, trauma, infectious disorders especially in Borrelia burgdorferi, sympathetic dysfunction, vascular abnormalities and immunological disorder theory [3]. The latter is strongly referred to in our case, in front of the association of the SPR to the vitiligo, the presence of anti-nuclear antibodies, and the clinical improvement under immunosuppressors.

Conclusion

PRS may manifest many different clinical findings, but lower extremity involvement is extremely rare. Our case is unique in 2 aspects: The first is the isolated contralateral lower extremity involvement together with hemifacial atrophy (without affecting any part of the body) and the second is the remarkable shortness in the length of the effected extremity.

The authors don't declare any conflicts of interest.

References

- Duymaz A, Karabekmez FE, Keskin M, Tosun Z (2009) Parry-Romberg syndrome: Facial atrophy and its relationship with other regions of the body. Ann Plast Surg 63: 457-461.
- 2. El-Kehdy J, Abbas O, Rubeiz N (2012) A review of Parry-Romberg syndrome. J Am Acad Dermatol 67: 769-784.
- 3. Tolkachjov SN, Patel NG, Tollefson MM (2015) Progressive hemifacial atrophy: A review. Orphanet J Rare Dis 10: 39.
- Wong M, Phillips CD, Hagiwara M, Shatzkes DR (2015) Parry Romberg syndrome: 7 cases and literature review. AJNR Am J Neuroradiol 36: 1355-1361.
- Slimani S, Hounas F, Ladjouze-Rezig A (2009) Multiple linear sclerodermas with a diffuse Parry-Romberg syndrome. Joint Bone Spine 76: 114-116.
- 6. Chapman MS, Peraza JE, Spencer SK (1999) Parry-Romberg syndrome with contralateral and ipsilateral extremity involvement. J Cutan Med Surg 3: 260-262.

