Ophthalmological Involvement in Scleromyxedema: A Case Report
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Abstract

Introduction: Scleromyxedema, or papulosclerotic mucinosis, is a very rare chronic condition, often associated with extracutaneous manifestations. We report a case associated with a unilateral macular edema and treated effectively with melphalan and corticosteroids. Case report: We examined a 57-year-old woman with severe left visual loss and biopsy-proven scleromyxedema disease, by showing mucin deposition in the superficial dermis, diagnosed four months prior to the ocular involvement. The clinical exam showed the presence of skin-colored micropapules, in the face, the ear lobes, the neck and the upper part of the trunk; the face and hands had a sclerodermiform appearance. Meanwhile, the fundus examination found out a unilateral macular edema confirmed with an optical coherence tomography who showed the macular edema with intraretinal cystic spaces and retinal thickening. A monthly course of melphalan (16 mg / day combined with prednisone 2 mg / kg / day for 4 days / month) allowed disappearance of macular edema. And a clear improvement in cutaneous lesions. Discussion: Most information about scleromyxedema has been retrieved from anecdotal or single case reports. scleromyxedema is a chronic disease, with an unpredictable evolution. However, some lucky patients can have spontaneous clinical resolution It can involve systemic implications, especially neurologic, cardiologic, and hematologic ones, entailing a guarded prognosis. Ocular manifestations are very rare. Rongioletti described this localization in a single patient in the form of bilateral macular edema. There is no specific definitive treatment and the therapeutic response varies greatly between patients. The use of IV immunoglobulins constitute a promising treatment as a first-line therapy, as it is relatively effective and safe for the treatment of cutaneous and extracutaneous manifestations of scleromyxedema, especially ophthalmological involvement. Conclusion: macular edema is a rare ocular feature of scleromyxedema disease and may cause vision loss and scotomes which needs a specific treatment.

Keywords: Scleromyxedema, papulosclerotic mucinosis, micropapules.

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INTRODUCTION

Scleromyxedema, also known as diffuse/generalized and sclerodermoid lichen myxedematous first defined by Arndt-Gottron [1], is a very rare chronic condition, often associated with extracutaneous manifestations. It is a primary cutaneous mucinosis characterized by a generalized, papular and sclerodermoid, cutaneous eruption that usually occurs in association with monoclonal gammopathy [2]. We report a case associated with a unilateral macular edema and treated effectively with melphalan and corticosteroids.

Case Report

We examined a 57-year-old woman with severe left visual loss and biopsy proven scleromyxedema disease, by showing mucin deposition in the superficial dermis, diagnosed four months prior to the ocular involvement. The clinical exam showed the presence of skin-colored firm micropapules, in the face with a diffuse thickening of the skin, especially surrounding the lips, the ear lobes (Figure 1), the neck and the upper part of the trunk; the face and hands had a sclerodermiform appearance. Meanwhile, the fundus examination found out a unilateral macular edema (Figure 2) confirmed with an optical coherence tomography (Figure 3) who showed the macular edema with intraretinal cystic spaces and retinal thickening. A monthly course of melphalan (16 mg / day combined with prednisone 2 mg / kg / day for 4 days / month) allowed disappearance of macular edema. And a clear improvement in cutaneous lesions.
**DISCUSSION**

Most information about scleromyxedema has been retrieved from anecdotal or single case reports. Scleromyxedema is a chronic disease, with an unpredictable evolution. However, some lucky patients can have spontaneous clinical resolution. It can involve systemic implications, especially neurologic, cardiology, and hematologic ones, entailing a guarded prognosis. Ocular manifestations are very rare [1]. Rongioletti described this localization in a single patient in the form of bilateral macular edema [2]. We also find as ophthalmologic manifestations: Corneal deposits [1, 3], thinning of the eyelid, ectropion.

The pathogenesis of scleromyxedema is not clear. The main hypothesis is the possible role of circulating cytokines, such as interleukin 1, tumor necrosis factor, and transforming growth factor-b, known to stimulate glycosaminoglycan synthesis and fibroblast proliferation in the skin [4]. Many authors have also suggested that the paraproteins themselves might act as autoantibodies that stimulate fibroblasts to proliferate and overproduce mucin [5].

There is no specific definitive treatment for the disease, and the therapeutic response varies greatly between patients. The use of IV immunoglobulins constitute a promising treatment as a first-line therapy, as it is relatively effective and safe for the treatment of both cutaneous and extracutaneous manifestations of scleromyxedema, especially ophthalmological involvement [6, 7]. Therefore, the chronic course of this disease affects the patient mentally, thus psychological or psychiatric therapy may also be introduced in order to improve the results of systemic treatment [1].

**CONCLUSION**

Scleromyxedema is a rare mucinous deposition disorder with a pathognomonic clinical presentation characterized by major organ complications that should be recognized as ophthalmological ones. Patients typically respond well to therapy as highlighted in our case.

**REFERENCES**


