Vogt-Koyanagi-Harada syndrome associated to hypothyroidism revealed by myocarditis

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ABSTRACT

Purpose: Vogt-Koyanagi-Harada (VKH) syndrome is usually defined as an uveo-meningitis who may be associated with auditory and cutaneous signs. Association of VKH syndrome and autoimmune thyroiditis is uncommon. Observation: A 28-year-old man was admitted with thoracic pain due to myocarditis. Two years ago he presented VKH syndrome with specific ocular manifestation and deafness, treated by corticosteroids and immunosuppressive. Etiologic investigation of myocarditis concluded to deep hypothyroidism related to Hashimoto thyroiditis. The patient improved after substitutive treatment by thyroid hormones. Conclusion: Thyroid function should be systematically investigated in case of VKH syndrome and particularly when associated to dysthyroidism symptoms.

Keywords: Vogt-Koyanagi-Harada; Myocarditis; Hypothyroidism; Hashimoto Thyroiditis.

1. INTRODUCTION

Vogt-Koyanagi-Harada (VKH) Syndrome is usually defined as an uveo-meningitis who may be associated with auditory and cutaneous signs. It primarily affects Asiatic people but also African and Caucasian ones. It would be associated with certain HLA class II antigens. Its pathogenesis is probably autoimmune; however, its association with other autoimmune diseases such as Hashimoto’s thyroiditis is rare.

2. AIM

We report a new case with this original rare association on the one hand and the revelation of thyroiditis by myocarditis on the other hand.

3. OBSERVATION

A North African man of 28 years old was admitted to emergency exploration for acute chest pain preceded by a physical asthenia lasting for one month. Two years earlier he had presented a VKH syndrome whose diagnosis was retained because the presence of a bilateral granulomatous uveitis with retinal detachment, retinal ischemia and areas of sensorineural hearing loss. The patient received high-dose steroid therapy and six courses of cyclophosphamide monthly and had unexpectedly stopped his treatment. Physical examination on admission was a discrete motor weakness of the pelvic girdle and reduced tendon reflexes. Cardiopulmonary auscultation was normal. The electrocardiogram showed signs of subepicardial ischemia in the apical-lateral territory. The biological noted an increase in creatine phosphokinase (CPK) to 2290 IU/l and lactate dehydrogenase (LDH) to 910 IU/l; troponin, triglycerides, total cholesterol, blood counts and parameters inflammation were within the limits of normal. Echocardiography noted diffuse hypokinesis of the left ventricle without impaired ejection fraction or other cardiac abnormalities. Myocardial scintigraphy showed a diffuse hypo perfusion stress. As part of this etiological and myocardial muscle, a thyroid showed peripheral hypothyroidism (TSH > 100 mIU/l and T4 0.1 ng/dl). The anti-peroxidases were present at high titer. No signs of adrenal insufficiency were noted and the basic cortisol was normal. The patient was then treated with substitutive thyroid hormone plus captopril established for myocarditis. Its evolution was favorable with clinical improvement and normalization of laboratory tests. Control echocardiography noted diffuse hypokinesis of the left ventricle without impaired ejection fraction or other cardiac abnormalities. Myocardial scintigraphy showed a diffuse hypo perfusion stress. As part of this etiological and myocardial muscle, a thyroid showed peripheral hypothyroidism (TSH > 100 mIU/l and T4 0.1 ng/dl). The anti-peroxidasises were present at high titer. No signs of adrenal insufficiency were noted and the basic cortisol was normal. The patient was then treated with substitutive thyroid hormone plus captopril established for myocarditis. Its evolution was favorable with clinical improvement and normalization of laboratory tests. Control echocardiography was normal. Ophthalmologic examination had found control of VKH disease in remission, not requiring the resumption of steroid therapy.

4. DISCUSSION

VKH syndrome usually affects young adults between 30 and 40 years with a female predominance [1,2]. Its clinical manifestations is various, they evolve classically into three phases. A phase of meningitis can occur with headache, meningeal irritation, seizures, neurological deficit, hearing loss and psychiatric signs. Second phase is characterized by ophthalmic pain and decreased visual...
VKH syndrome is a systemic disease rare, probably autoimmune origin can be associated with other autoimmune diseases of organs such as Hashimoto’s thyroiditis. This is to systematically seek to establish an early diagnosis and appropriate treatment.

REFERENCES


