CASE REPORT

Association of Vogt Koyanagi Harada Syndrome and Seronegative Rheumatoid Arthritis

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ABSTRACT

BACKGROUND: Vogt Koyanagi Harada (VKH) Syndrome is a rarely-seen multi-systemic, autoimmune and inflammatory disease. It is observed frequently with neurologic, auditory and skin manifestations and characterized with bilateral, chronic and diffused granulomatous panuveitis. It generally affects women in young-adult period.

CASE: A 57 year-old female patient applied to a special center one year ago with a complaint of decrease in the sight acuity of the right eye. The right eye was operated on with cataract diagnosis. Uveitis was developed firstly in the right eye and then in the left eye after the operation. Having complaints about uveitis, tinnitus and hear loss, the patient was diagnosed with VKH syndrome. The pains started to be felt in small hand joints and both of the two ankles. The pains were increasing especially in the mornings and during rest. The duration of morning stiffness was two hours in hand and foot joints. The patient had had lumbar pain with mechanic characteristic for five years.

CONCLUSION: Being diagnosed with seronegative rheumatoid arthritis (RA), our case is presented because VKH syndrome is rarely seen in Turkey, and the joint findings are at the forefront.

Keyword: Seronegative Rheumatoid Arthritis, joint involvement, Vogt Koyanagi Harada Syndrome

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INTRODUCTION

Vogt Koyanagi Harada Syndrome is a disease with chronic course characterized with neurologic and skin symptoms besides the bilateral granulomatous panuveitis (1). Although the etiology of the disease is not known exactly, it is thought to be caused by autoimmunity created against antigen controlled via T-lymphocytes and associated with melanocytes (2). VKH disease is more prevalent in certain racial and ethnic groups, particularly in Asian individuals and certain Latin-American groups. And individuals have certain HLA groups in Japan (3, 4).

Vogt Koyanagi Harada Syndrome diagnosis is based on making distinguishing it from other uveitis reasons with clinic and laboratory findings (5). Besides neurologic and skin symptoms, the disease consists of typical bilateral exudative retina decollement in eyes, palillitis, choroiditis and iridocyclitis. In this article, the clinical course of a VKH case with delayed diagnosis having ocular and systemic findings suppressed due to corticosteroid treatment is presented. Rheumatoid arthritis is an inflammatory disease having chronic systemic process. Its etiology is not known properly, but it is also known that it generally affects the joints. On the other hand, it has a significant extra-articular involvement with nearly all organ systems influenced. The prevalence in women is three times more than that in men. It has been proved that there is a genetic component transferred through HL A-DQ and-DR alleles (6).

Being diagnosed with seronegative rheumatoid arthritis diagnosis, our case is our case is presented because VKH syndrome is rarely seen in Turkey. No joint findings are seen in VKH syndrome.

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CASE

A 57 year-old female patient applied to a special center one year ago with a complaint of decrease in the sight acuity of the right eye. The right eye was operated on due to cataract diagnosis. Uveitis was developed firstly in the right eye and then in the left eye after the operation. The patient was suit for the VKH syndrome because of the ophthalmologists’ opinion, patients’ age, and skin and auditory involvements. She patient was diagnosed VKH syndrome according to uveitis, tinnitus and hearing sense loss complaints. She had joint complaints and complained of joint problems for more than six weeks. That’s why; she was examined. The pains started to be felt in small hand joints and both of the two ankles. The pains were increasing especially in the mornings and during rest. The duration of morning stiffness was two hours in hand and foot joints. The patient had had lumbar pain with mechanic characteristic for five years. There was not any pain during nights. She had given birth to two children. Considering her family background, it was learnt that her maternal twin had psoriasis. There was not any rheumatic disease in family her background. No psoriasis was detected in the patient.

In physical examination, there was redness in the cornea of left eye and the 3cm alopecic region in hairy skin. There were pressure-induced pains in proximal interphalangeal joints of both hands, metacarpalphalangeal joints of the 4th and 5th fingers in the left hand, wrists, elbows, and both of the two achilles tendons. There was swelling in the 4th and 5th metacarpalphalangeal joints of the left hand. Lumbar region, hip and sacroiliac joint examinations were normal. In neurologic examination, bilateral visual acuity and hear loss were identified.

In laboratory evaluation, the hemogram values were normal, sedimentation was 36 mm/h and CRP was 1.0 mg/dl; rheumatoid factor, anti-nuclear antibody, anti ds-DNA, anti-CCP, and HLA B27 tests were negative. There were erosions in the PIF joints in the hand radiography of patient (Figure 1). In foot magnetic resonance imaging, synovitis was observed (Figure 2).

Figure 1: Images of erosion in PIF joints

Figure 2: Images of synovitis in foot MR
DISCUSSION

Vogt-Koyanagi Harada Syndrome is a multi-systemic disease characterized with granulomatous inflammation, and affecting the auditory system, the meninx and the skin (1). Despite that, it is rarely seen, has chronic course and the potential of leading to blindness (4). Although its prevalence in our country is not known, it has been reported that it constitutes 10% of uveitis in Japan (7), and its annual prevalence is 15.5 per million (8).

Vogt-Koyanagi Harada Syndrome is generally seen in young middle aged individuals, and more frequently in women (8). Complaints may vary depending on the phase in which the disease is diagnosed. Patients having autoimmune vestibulitis apply with tinnitus complaint, while patients with meninx involvement apply with inflammation, nausea and severe headache. Patients with skin involvement have hypopigmentations around the hands and the face (1, 5, 8). Besides all of those findings, while wide choroid inflammation, exudative retina decollement and papillitis accompany the early stages of this disease, some ocular findings such as choroidal depigmentation are observed in late stages (9). Especially, because it develops bilateral granulomatous uveitis, although it can be confused with sympathetic ophthalmia, it is distinguished from that disease since it does not have VKH trauma background (10).

Vogt-Koyanagi Harada syndrome constitutes 8% of endogen and uveitis in Japan and 1-4% in uveitis in mixed races in USA. It has been reported in a study that extra ocular findings in VKH syndrome vary depending on races and ethnic groups. While the prevalence values of meningismus, dysacousia, alopecia, polisis and vitilligo are 80%, 60%, 60% and 25% respectively, dermatological findings have been observed much less frequently. Although the first symptoms of the disease appear generally between the ages of 20’ and 50, it has been reported in a 4 years old child. In genetic factor researches, its relationship with HLA-DR4 and DW53 has been determined (11). It is assumed that a T-cell-mediated autoimmune reaction is created against common membrane antigen in melanocyte and/or neural crest originated tissues (5). This autoimmune response generally results especially with collapse of melanocytes in epidermis, cochlea, meninx and uvea (12).

Our case is a VKH syndrome where the joint involvement is at the forefront. The patient complained of joint problems over than six weeks. The case had joint involvement and morning stiffness in her little joints in the hands and the feet. She had no inflammatory back pain. There was erosions in PIF joints in the hand radiography of the patient (Figure 1). In foot magnetic resonance imaging, synovitis was identified (Figure 2). Sacroiliac joint magnetic resonance imaging was normal. With those findings, the patient was diagnosed with seronegative rheumatoid arthritis diagnosis. Although generally steroid is used in the treatment of VKH syndrome, methotrexate is added into the treatment because there are arthritic findings.

As a result, VKH syndrome is a multi-system syndrome. The system involvement shows variation depending on geographic regions and ethnic origin. Also, it is interesting that both of the two diseases have relationship with HLA genes. With these results, it is a matter of debate provided that the VKH syndrome of our case is joint involvement or seronegative RA.

REFERENCES


