Pregnancy-induced Susac Syndrome: A Case Report

Gebeliğin Tetiklediği Susac Sendromlu Bir Olgu Sunumu

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Dear Editor,

In the 14th week of gestation, a 19-year-old female patient presented to a peripheral hospital with worsening of her symptoms of headache and meaningless somniloquy at nights. She was referred to our center after detecting extensive hyperintense lesions (most of them showing diffusion restriction) in T2 and fluid attenuated inversion recovery sections on brain magnetic resonance imaging (also including the corpus callosum) performed nearly one month after the onset of symptoms (Figure 1). The patient’s presenting neurologic examination revealed impairment in orientation to place, bilateral extensor plantar response, and hyperactive deep tendon reflexes.

During follow-up her electroencephalograph findings were consistent with encephalopathy showing generalized slow (delta-theta) activity (Figure 2). Her audiogram demonstrated sensorineural hearing loss in the low frequencies. The fundus fluorescein angiography examination revealed occlusion in many branches of the central retinal artery (Figure 3). In cerebrospinal fluid, the protein level was 210 mg/dL, glucose concentration was normal, and oligoclonal band was negative.

Her symptoms were relieved after treatment with 1 g/day methylprednisolone and 300 mg/day acetylsalicylic acid for seven days. No fetal anomaly was diagnosed during follow-up.

Susac syndrome, usually seen in young females, is an angiopathy of unknown etiology that presents with various signs including ataxia, vertigo, pyramidal signs, and epileptic seizures due to extensive white and gray matter involvement. As in many autoimmune diseases, steroids, immunosuppressive drugs, and intravenous immunoglobulin are used in the treatment of Susac syndrome (1,2,3).

Susac syndrome is less prevalent among pregnant women because immune-mediated clinical conditions are less common during pregnancy. In the literature, patients diagnosed as having Susac syndrome during pregnancy are limited in number (4,5). The first case was a 35-year-old pregnant woman presenting with acute bilateral loss of vision and the second had presented with confusion and loss of hearing and vision during pregnancy (5,6).

The fact that immune-mediated clinical conditions are less common during pregnancy makes a disease with a low incidence far less prevalent during pregnancy. For this reason, we wanted to present this case, which presented with an uncommon disease in a period when the disease is far less prevalent.

Ethics
Inform consent: Consent forms were completed by all participants.
Peer-review: Internally peer-reviewed.
Authorship Contributions

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References


Figure 1. Periventricular (including corpus callosum) hyperintense lesions

Figure 2. Diffuse slowing of the background rhythm on electroencephalograph

Figure 3. Central retinal artery occlusions on fundus fluorescein angiography