Cerebral Venous Sinus Thrombosis Presenting as Cortical Blindness

Kortikal Körlük ile Prezente Olan Serebral Venöz Sinüs Trombozu

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Dear Editor,

A 30-year-old male, alcoholic, smoker presented with a headache of moderate intensity, associated with multiple episodes of vomiting, which he had for the past three days. The headache was associated with bilateral vision loss that started one day ago before admission.

On examination, the patient was conscious and well oriented to time place and person. The vitals of the patient was normal. On neurologic examination, higher mental functions were intact. Ophthalmologic examination revealed that visual acuity was reduced to a perception of light bilaterally, both eyes exhibited normal pupillary reflex without movement restriction. The patient’s fundus examination showed bilateral hyperaemic discs and a mildly swollen left disc (Figure 1).

Bilateral plantar reflexes were flexor, and the rest of the neurologic examination was unremarkable. The patient's routine blood parameters (hematologic and biochemical) were normal. A contrast-enhanced computed tomography scan of the brain showed a non-enhancing hypodensity in the bilateral occipital and left parieto-temporal region involving both gray and white matter not restricted to an arterial territory (1). The patient’s brain magnetic resonance imaging (MRI) and MRI venography was performed, which showed acute infarct in the bilateral parieto-occipital region (Figure 2).

MRI venography revealed diffuse attenuation of flow-related enhancement of the right transverse, right sigmoid sinus, proximal part of left transverse sinus and right internal jugular vein suggestive of thrombosis (Figure 3).

Treatment with body weight-adjusted low-molecular-weight heparin (2) initially and followed later by warfarin resulted in partial recovery of vision and relief of headache. Currently, the patient is on our regular follow-up, and he has been advised against alcohol intake. Later an extensive search for any underlying hypercoagulable state (3) was performed including protein C and S level, anti-thrombin three levels, factor 5 Leiden and prothrombin gene mutations, anti-phospholipids antibodies, anti-nuclear

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antibody, and serum homocysteine level, but no abnormality could be demonstrated.

**Ethics**

**Informed Consent:** Consent form was filled out by all participants.

**Peer-review:** Internally peer-reviewed.

**Authorship Contributions**


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**References**


**Figure 2.** Brain magnetic resonance imaging showing infarct in bilateral occipital and left temporoparietal area, which is not limited to a single arterial territory.

**Figure 3.** Magnetic resonance venography showing thrombosis of right sigmoid sinus, transverse sinus and internal jugular vein.