Dear Editor,

A 32-year-old female patient presented with numbness of the right hand and right side of the face. She had no systemic illness and she had undergone infertility treatment during seven years of marriage. The patient became pregnant with in vitro fertilization, and she was admitted to hospital with high fever at the 24th week of pregnancy and was diagnosed as having salpingitis, and intravenous antibiotherapy treatment was applied. She underwent a cesarean section due to vaginal bleeding at the 28th week of pregnancy and had a healthy premature baby. Fifteen days after giving birth, her symptoms of numbness of the right hand and right side of the face began. The numbness episodes lasted about five minutes and repeated several times during the day. The patient, who had more frequent episodes after the second month, was hospitalized for further examination and treatment. Although the medical history of the patient was normal except for infertility, it was learned that a sibling of the patient had a diagnosis of tuberculosis.

The neurologic examination on admission was as follows: She was conscious, cooperative and oriented. Cranial nerve examination was intact, she had no motor deficits, superficial tactile sensation and cerebellar tests were intact, and deep tendon reflexes were normoactive. She had bilateral flexor plantar response, vibration and position senses were intact, and gait was normal.

In laboratory examinations, there were no significant pathologic findings except mild iron deficiency anemia on routine complete blood count and blood biochemistry. The erythrocyte sedimentation rate was 70 mm/h. She had normal chest X-ray and electrocardiography of the patient was in sinus rhythm. Electroencephalography revealed slow and sharp wave asymmetry in the left frontotemporal area and the current symptoms were not compatible with epileptic seizures. Cerebral and cervical magnetic resonance imaging (MRI) revealed multiple parenchymal lesions in the cerebrum, cerebellum, and brainstem, with dimensions not exceeding 1 cm and peripheral thick ring-like enhancement,

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and some causing vasogenic edema (Figure 1). Although the lesions were considered to be tuberculosis granulomas, magnetic resonance spectroscopy and diffusion-weighted MRI examination were recommended for the differential diagnosis. Metabolic values were not specific and there was no acute diffusion limitation. Cerebrospinal fluid (CSF) examination revealed a protein concentration of 43 mg/dL, a lactate concentration of 1.37 mmol/L, and glucose a concentration of 53 mg/dL (concurrent blood glucose level was 78 mg/dL). No cells were detected on direct microscopic examination and cytologic examination was normal. All infectious parameters including tuberculosis examined from the CSF were normal. There was no growth in the CSF culture. Abdominopelvic ultrasonography revealed gallbladder sludge. Computed tomography examination of the thorax and abdomen revealed an appearance compatible with miliary tuberculosis of the lungs.

Following a positive QuantiFERON test result, the patients was accepted as having miliary tuberculosis and was transferred to the infectious diseases clinic (Figure 1). Although tuberculosis is a major health problem in developing countries, disseminated tuberculosis infections of the central nervous system (CNS) are very rare (1). Extrapulmonary involvement of tuberculosis accounts for 10-20% of all cases (2,3). Fallopian tuberculosis is one of the regions where extrapulmonary involvement is seen and it can disseminate from there by hematogenous spread (4). Tuberculosis cases with CNS involvement can present with very different clinical conditions. These include meningitis, encephalitis, arachnoiditis and findings of space-occupying lesion depending on granulomas (3). Tuberculomas, the most common form of CNS tuberculosis in the parenchyma, are small, tumor-like structures. They may cause focal neurologic signs and seizures due to increased intracranial pressure (3). Our patient was considered as having miliary tuberculosis with CNS involvement from salpingitis due to immunosuppression caused by pregnancy.

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

Peer-review: Internally peer-reviewed.

Authorship Contributions

Conflict of Interest: No conflict of interest was declared by the authors.

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References