Abstract
The cavum septum pellucidum (CSP) is defined as a crevice-like space of variable width between the left and right transparent septum. In this report, a rare case of pseudo primary abscess formed in the CSP due to ventriculitis is presented.

Keywords: Cavum septum pellucidum, pseudo primary abscess, ventriculitis

Introduction
The cavum septum pellucidum (CSP) is defined as a crevice-like space of variable width between the left and right transparent septum. The CSP and other ventricles communicate with each other, and cerebrospinal fluid (CSF) enters the CSP from the third and lateral ventricles, in which CSF is produced. In this report, a rare case of a pseudo primary abscess formed in the CSP due to ventriculitis is presented.

Case Report
A 22-year-old man was admitted to the hospital because of fever, vomiting, headache, and altered sensorium. His temperature was 38°C. Neurological evaluation showed that he was in a state of confusion. His neck was stiff and Kernig and Lasegue signs were positive. A lumbar puncture yielded white cloudy CSF. The CSF contained 1800 white cells/mm³, of which 85% were neutrophils; and the protein concentration was 100 mg/100 ml. Initial computed tomography (CT) and magnetic resonance imaging performed showed a CSP in his brain. The CSP was enhanced by contrast materials [Figures 1 and 2]. The patient was treated with intravenous administration broad spectrum antibiotics. On the 4th day in hospital, the patient’s condition deteriorated and he went in no motor response. A repeat scan showed ventriculomegaly [Figure 3] and immediately a ventriculoperitoneal shunt was inserted. An abscess in CSP was suspected, and the patient was planned for drainage of the abscess through interhemispheric approach. The patient continued to receive intravenous broad spectrum antibiotics. The size of the abscess decreased markedly on a CT, which was performed after the surgery [Figure 4].

Discussion
The width of CSP is between 6 mm and 20 mm. In addition, expansion or inside lesions of the cava can produce symptoms by distorting the vessels, compressing the hypothalamo-septal triangle, or compressing the optic pathways.[1-3] Fenestration to the lateral ventricles, cystoventriculoatrial shunts or cystoperitoneal shunts have been recommended in symptomatic cases because spontaneous regressions have only occurred in three cases reported in the literature.[1,4-6]
In this case, an abscess was formed in the CSP, probably due to ventriculitis. One explanation for this phenomenon is the slow filling and delayed clearance theory.\cite{7} It seems that there was delayed filling of purulent CSF and clearance of CSF from the CSP to other ventricles is slow. Some CSPs might be noncommunicating, the CSF of which might filter through the septal laminae and be reabsorbed by vessels of the septa.\cite{8} In this form of CSP, however, purulent CSF would not directly enter the CSP and it is unlikely that abscess formation or clearance of the abscess would occur. In the case of a communicating CSP, the CSF flow continues and purulent CSF would enter the CSP. Clearance of the CSF would be delayed because of its pouched shape with one entrance. This condition is very rare and it is important to look for ventriculomegaly if the condition of the patient deteriorated.

**Financial support and sponsorship**

Nil.

**Conflicts of interest**

There are no conflicts of interest.

**References**