Case report



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Bithalamic signal anomaly

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History

40 year old patient with acute headaches for 3 days, complicated by an epileptic seizure disorder.

Diagnosis

Thrombophlebitis of the internal cerebral veins

Commentary

• Deep veinous thrombosis is manifested by headache, vomiting, neurological deficit or confusional state. In more severe forms and due to the function of the affected venous territory, it manifests itself by consciousness disorders. The diagnosis is based on imaging. In cases in which a CT scan has been performed as a first-line procedure, it shows both direct and indirect signs [1]. • Direct signs include spontaneous hyperdensity of the thalamic veins in contact with the interventricular foramen, basal veins of Rosenthal at the level of an ambient cistern, internal cerebral veins, vein of Galen, or the right sinus. After intravenous injection of iodinated contrast, thrombosis is recognized as a defect in a deep vein. Indirect signs are hypodensity of the thalamus that may extend to the gray nuclei of the diencephalon, the deep white matter and the posterior part of the midbrain [2].

• Conventional MRI and MR angiography are more efficient than CT. The thrombus is easier to visualize because it is hyperintense in T1 and T2 After intravenous injection of gadolinium, it appears in hyposignal surrounded by enhancement of the walls of the Dural (C, white arrow and D, blue arrow), and hyperintensity of the thalami that may extend to the gray nuclei of the diencephalon (A and B)

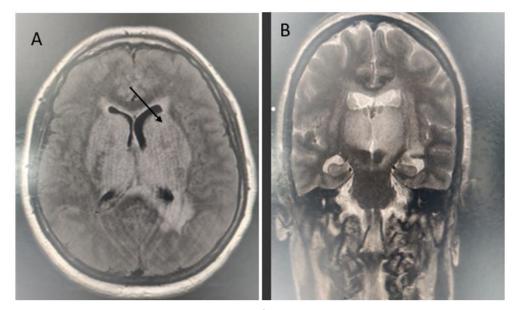


Figure 1: T2 weighted sequence demonstrate an hyperintensity of the thalami that may extend to the gray nuclei of the diencephalon (A and B).

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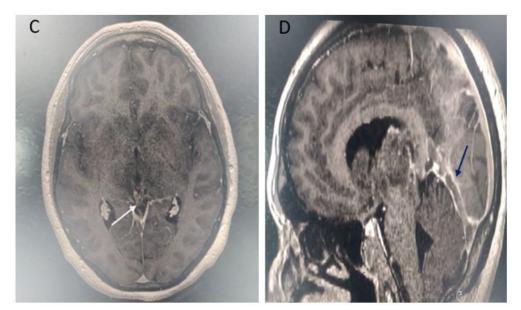


Figure 2: T1 weighted sequence with PDC injection demonstrate an hyposignal surrounded by enhancement of the walls of the Dural (C, white arrow and D, blue arrow), in relation to The thrombus.

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