NEUROLOGICAL PICTURE

Evaluation by magnetic resonance imaging of the entrapped temporal horn syndrome

A 16 year old boy had an intraventricular haemorrhage caused by rupture of a large left parasplenic arteriovenous malformation (AVM). The AVM was totally resected through an interhemispheric approach. The postoperative course was unevenful. One month later, however, he noticed gait disturbances which deteriorated progressively. On neurological examination, he was alert but disoriented to place and time, and homonymous hemianopsia and hemiparesis, including facial weakness, were noted on the right side. Coronal MRI on T1 and T2 weighted images showed a cystic expansion of the entrapped temporal horn of the lateral ventricle (figure). With a diagnosis of entrapment of the left temporal horn, a ventriculoperitoneostomy was performed placing a shunt tube into the left temporal horn. The neurological deficits disappeared completely after surgery.

The MRI findings indicate that hemiparesis, homonymous hemianopsia, and memory disturbance originate respectively from the compression of the internal capsule, Meyer loop and hippocampus, and interstitial oedema within these structures. These neurological deficits, which are caused by the anatomical change of the temporal horn, can be regarded as a characteristic triad for this entity.

Evaluation by magnetic resonance imaging of the entrapped temporal horn syndrome

TAKAO WATANABE and YOICHI KATAYAMA

J Neurol Neurosurg Psychiatry 1999 66: 113
doi: 10.1136/jnnp.66.1.113

Updated information and services can be found at:
http://jnnp.bmj.com/content/66/1/113

These include:

References
This article cites 3 articles, 1 of which you can access for free at:
http://jnnp.bmj.com/content/66/1/113#BIBL

Email alerting service
Receive free email alerts when new articles cite this article. Sign up in the box at the top right corner of the online article.

Topic Collections
Articles on similar topics can be found in the following collections

- Hydrocephalus (134)
- Ophthalmology (842)
- Infection (neurology) (494)
- Radiology (1747)
- Radiology (diagnostics) (1309)

Notes

To request permissions go to:
http://group.bmj.com/group/rights-licensing/permissions

To order reprints go to:
http://journals.bmj.com/cgi/reprintform

To subscribe to BMJ go to:
http://group.bmj.com/subscribe/