## images

## Gigantic cerebral hydatid cysts in childhood

Hüseyin Per,\* Hakan Gümüs,\* Sefer Kumandas,\* Bülent Tucer,† Ali Yikilmaz,‡ Ahmet Menku,† Abdulhakim Coskun,‡ Ali Kurtsoy †

From the \*Department of Pediatric Neurology, †Department of Neurosurgery and ‡Department of Radiology, Erciyes University, Kayseri, Turkey

Correspondence and reprint requests: Pediatric Neurology Erciyes University Kayseri 38039, Turkey T: +90-352-240 5005 F: +90-352-437 5825 hper@erciyes.edu.tr Accepted for publication September 2006

Ann Saudi Med 2007;27(1):61-62

chinococcosis is a parasitic disease caused by infestation of various body tissues by the encysted larvae of Echinococcosis granulosa, the tapeworm. The definitive host for the adult form is usually the dog, where the tapeworm lives in large numbers in the intestines. The disease is related to the inefficiency of environmental health and protective care and dealing with animals, which is prevalent in South America, Africa, Australia, the Mediterranean countries and the Middle East. Cerebral hydatid cysts are rare and comprise only 2% to 3% of all reported hydatid cysts. They

constitute up to 3% to 4% of all intracranial space-occupying lesions. <sup>1-6</sup> The parietal region is reported to be the most common location of cerebral hydatid cysts. <sup>1-3,7-1</sup> On MR, the signal intensity of the cyst is isointense with cerebrospinal fluid on all pulse sequences. Variable amounts of septa can be observed. The MRI demonstrates the hydatid cyst as a spheral, thin-walled structure containing fluid with CSF imaging characters. <sup>8,14-16</sup> Cerebral hydatid cysts are benign, slowly growing cysts. The lesions may remain asymptomatic until they are quite large.

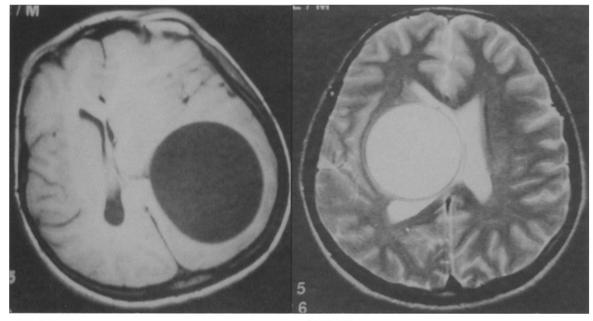


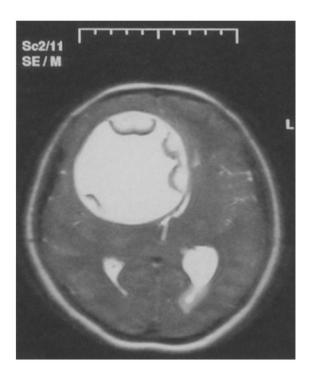
Figure 1. (left) T1-weighted axial image showing a cystic lesion with a well-defined border in the left parietal region and a markedly left-to-right midline shift

Figure 2. (right) T2-weighted axial image showing a gigantic right thalamic hydatid cyst causing displacement of the midline structures.

## GIGANTIC HYDATID CYSTS

images

Figure 3. T2-weighted axial MR image showing a gigantic right frontotemporoparietal hydatic cyst causing displacement of the midline structures.



## **REFERENCES**

- 1. Ayres MC, Dewey IM, German WS. Cerebral Hydatidosis. J Neurosurg 1963;20:371-377
- Ciurea AV, Vasilescu G, Nuteanu L, Carp N. Cerebral hydatid cyst in children. Experience of 27 cases. Child's Nerv Syst 1995;11:679-685
- 3. Dew HR. Primary cerebral hydatid disease. Aust N Z J Surg 1995;24:261-271 4. Ersahin Y, Mutluer S, Guzelbag E. Intracra-
- Ersahin Y, Muttuer S, Guzelbag E. Intracranial hydatid cysts in children. Neurosurgery 1993;33:219-225
- Krajewski R, Stelmasiak Z. Cerebral hydatid cyst in children. Child's Nerv Syst 1991;7:154-155
  Özek M. Complications of central nervous system hydatid disease. Pediatr Neurosurg 1994:20:84-91
- 7. Carrea R, Dowling E Jr, Guevara JA. Surgical treatment of hydatid cysts of the central nervous

- system in pediatric age (Dowling's technique). Childs Brain 1975;1:4-21
- 8. Çataltepe O, Çolak A, Özcan OE, Özgen T. Intracranial hydatid cysts: experience with surgical treatment in 120 patients. Neurochirurgia 1992:35:108-111
- 9. Turgut M. Intracranial hydatidozis in Turkey: Its clinical presentation, diagnostic studies surgical management, and outcome. A review of 276 cases. Neurosurg Rev 2001;24:200-208
- 10. Kaya U, Özden B, Turker K, Tarcan B. Intracranial hydatid cysts. Study of 17 cases. Neurosurg 1975;42:580-584
- 11. Kurtsoy A, Öktem S, Koç K, Akdemir H, Menkü A. Successful surgical treatment of a thalamic hydatid cyst with contralateral transcallosal approach. Pediatr Neurosurg 1999;31:96-99
- 12. Menkü A, Kulaksýzoglu O, Tucer B, Kurtsoy A, Akdemir H. Successful surgical excision of a gigantic cerebral hydatid cyst: Case report. Minim Invasive Neurosurg 2004;47:61-64
- 13. Öktem IS, Akdemir H, Pasoglu A, Kurtsoy A, Selçuklu A. Hydatid cyst of the posterior fossa: A case report. Erciyes Tip Dergisi 1994;16:303-306 14. Shamam O El, Amer T, Atta MA. Magnetic
- Shamam O El, Amer T, Atta MA. Magnetic resonance imaging of simple and infected hydatid cysts of the brain. Magnetic Resonance Imaging 2001:19:965-974
- 15. Sahin-Akyar G. Computed tomography and magnetic resonance imaging findings in cerebral hydatid disease. Radiography 2002;8:251-258
- 16. Tüzün M, Altınörs N, Arda IS, Hekimoglu B. Cerebral hydatid CT and MR findings. Journal of Clinical Imaging 2002;26:353-357