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Images in Infectious Diseases

An Atypically Located Hydatid Cyst

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A 37-year-old man presented to a university hospital in Turkey due to seizures. Multiple lesions were detected in the brain through computed and in the liver and thorax through radiographic studies. Radiotherapy was applied to the brain for 10 days at another center on suspicion of malignancy.

The patient exhibited elevated body temperature and impaired consciousness; he was admitted to the internal disease intensive care unit for tests and treatment. He presented a poor general condition and lethargic consciousness. Principal preliminary diagnoses of metastatic tumors and hydatid cysts were considered. Multiple hepatic lesions, local invasion in the right adrenal gland, multiple pulmonary metastases, and local invasion in the upper pole of the right kidney were detected (**Figure 1**, **Figure 2**, **and Figure 3**). A liver biopsy was performed. The pathology report was compatible with alveolar echinococcosis. The ELISA test results were compatible with the diagnosis of echinococcosis (IgG = 2.4). Surgical treatment was not considered appropriate because of the widespread lesion. Albendazole treatment at 800 mg/day was started with a diagnosis of diffuse hydatid cyst. The patient lost consciousness and died.

Hydatid cysts are an important zoonosis worldwide¹. *Echinococcus granulosus* and *E. multilocularis* cause hydatid cyst disease and alveolar cyst disease, respectively^{1,2}. Single organ involvement and a single cyst are more common. Treatment involves albendazole or mebendazole³. Hydatid cysts should be considered during differential diagnosis of patients with cystic masses in endemic regions. Community education is important. Despite being rare, systemic involvement may occur in addition to atypical localization.

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FIGURE 1: Multiple hepatic lesions.

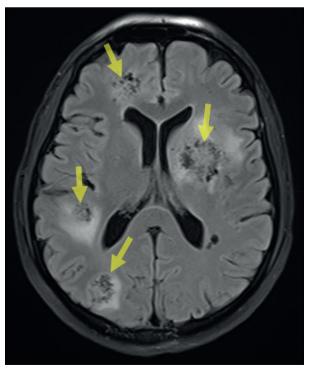


FIGURE 2: Multiple brain lesions.

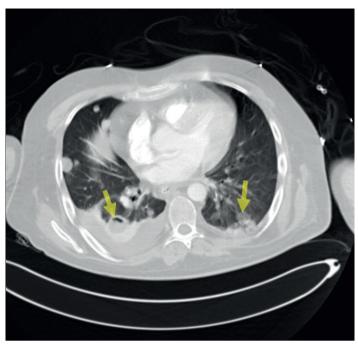


FIGURE 3: Multiple alveolar lesions.

AUTHORS' CONTRIBUTIONS

EP: Conception and design of the study, acquisition of data; EP, SBT: Conception and design of the study, analysis and interpretation of data, final approval of submitted manuscript; EP, SBT: Conception and design of the study, analysis and interpretation of data.

CONFLICT OF INTEREST

The authors declare that there is no conflict of interest.

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