HYDATID CYST OF THE UTERINE CERVIX

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I report and discuss a very rare case of primary involvement of the uterine cervix by hydatid cyst a parasitic disease caused by Echinococcus granulosus, whose first and most important site is the liver. The case was misdiagnosed as an ovarian cyst until the time of operation.
And this is to alert the gynaecologist to the possibility of hydatid cyst when a septated mass is found in the pelvis.

INTRODUCTION

Hydatid disease is an illness caused by the cystic phase of the small tapeworm’s Echinococcus granulosus, whose primary host is the dog and whose cysts affect sheep, commonly causing unilocular cyst. The rare E. multilocularis tapeworms affect foxes, and cysts are found in small rodents too and those are the once causing the alveolar type. Human disease occurs when tapeworm ova are ingested by humans, often as a result of close contact with a working or pet dog and often acquired in childhood. The disease is most common in the sheep-raising areas of the world, including South Africa, Australia, New Zealand, the Middle East, Central Europe, and South America. The majority of cysts are found in the liver or the lung. After remaining asymptomatic for decades, the enlarging cysts in the liver may produce abdominal pain or swelling, or may obstruct the biliary system, leading to jaundice. Lung cysts can cause partial bronchial obstruction, with repeated chest infection. Severe anaphylactoid reaction and urticaria occurs in case of rupture of the cysts. The brain can be also affected mainly by metastases of E. multilocularis. Echinococcal cysts may also involve the cervix, which can be the primary or a secondary site of infection. Plain radiographs and ultrasound scans will reveal thin-walled, fluid filled structures. Computed tomographic scans may reveal daughter cysts, and on magnetic resonance scans magnified images may demonstrate scolices within them. ELISA tests, used to detect cyst-associated hydatid antibodies, are highly sensitive. Antigen detection tests can be useful in making diagnosis in acute cases, more importantly, in monitoring the response to chemotherapy. Surgical excision offers the only hope of cure; a common approach is to prepare patients for operation with albendazole for at least 2 weeks or to give this drug for non-operable cases, as cysts of the brain. Praziquantal is also given preoperatively and for 2 weeks following to act against the protoscolices and reduce the risk of secondary seeding.

In cases of cervical cysts surgical excision is the treatment of choice.

I report here a case of hydatid cyst of the uterine cervix, which is one of the extremely rare involved sites.

CASE REPORT

A 32-years-old women, gravida 6, para 3 and with 3 abortions, was referred to us with lower abdominal pain and lower back pain. Previous medical history was unremarkable; surgically the patient had had a caesarean section four years previously for transverse lie. The patient gave a history of non-specific abdominal and pelvic discomfort that was accompanied by some lower back pain. General examination showed no abnormality. On pelvic examination a mass of 7–8 cm in diameter was found in the right lower part of the uterus. It was not possible to differentiate this from the right parametrium. During the trial of cyst excision it ruptured, and the scolices the brood capsules were seen. Only then was the diagnosis of hydatid cyst made, and because of the rup-
ture and the difficulty of excision of the cyst, and the adherence of the right ovary, abdominal hysterectomy with right salpigo-oophorectomy was performed.

During macroscopic analysis the uterus weighed 140 g. On the right side of the lower part of the uterus, under the serosa and inside the myometrium a yellow coloured irregular cystic cavity measuring $7 \times 5 \times 4$ cm, with a lot of chitinous layers of cysts was found with no other pathology.

The diagnosis of hydatid cyst was confirmed histologically and the indirect heamagglutination test was positive in 1/260 titration. After definite diagnosis post-operatively we started albendazole therapy in doses of 10 mg/kg/day for 10 weeks as a prophylactic. The patient progressed well and was discharged on the 8th day post operatively. After 2 months follow-up patient was asymptomatic.

COMMENT

Hydatid cyst is a parasitic disease caused by Taenia Echinococcus. Primary uterine hydatid cyst is an extremely rare condition. I found only a few reports in the literature\textsuperscript{2,3,5}. Based on this reported case, a hydatid cyst of the uterus underlines the difficulties of diagnosis outside the endemic zones and in this very rare localisation. The misdiagnosis in my opinion is one of the reasons leading to the complication of hysterectomy in young women, but the patient was lucky enough that she already has 3 children. There was no chance for the patient to undergo full investigations to reach the correct diagnosis. Computed tomographic scans that can reveal daughter cysts and magnetic resonance scans magnified images that may demonstrate scolices within them, was not done for this patient. This type of investigation will give a better result whatever the diagnosis. From this experience, I suggest that the gynaecologists should be aware of the possibility of a hydatid cyst when they find septated cystic mass in the pelvis. And also if hydatid cyst is diagnosed after operation, in addition to the complication of rupture, the treatment with medication such as albendazole should be started as a prophylaxis.

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