Primary Peritoneal Hydatidosis: Clinically Mimicking Carcinoma Of Ovary
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Abstract
Hydatid disease (HD) is a world wide zoonosis produced by larval stage of Echinococcus. There is paucity of literature on specific findings related to various complications and unusual anatomic locations. Peritoneal echinococcosis is almost always secondary to hepatic disease, although occasional cases of primary peritoneal hydatid disease have also been reported. Peritoneal echinococcosis usually goes undetected until cysts are large enough to produce symptoms. CT scan is modality of choice in detecting this disease. The unusual clinical presentation of a case of primary peritoneal hydatid disease compelled authors to bring it to the literature to enhance clinical experience of those dealing such problem.

CASE REPORT
A 48 yrs old female presented with gradually increasing abdominal distention of two years duration. Anorexia and weight loss were associated complaints. There were no jaundice, bowel or bladder complaints. On clinical examination the distended abdomen was soft, non tender, no shifting dullness and multiple small, firm nodular swellings in abdominal cavity with restricted mobility and minimal movement with respiration (Fig 1). Routine blood investigation showed eosinophilia of 18% and raised ESR (36 mm 1st hr.) USG abdomen showed multiple thin walled cystic swellings in peritoneal cavity varying in size (1-10cm) involving liver spleen, mesocolon, retroperitoneum, omentum, pouch of Douglas, lesser sac and broad ligament and ovaries. However CT abdomen (Fig 2 &3) suggested possible diagnosis of carcinoma ovary.
Serologic work up was negative for E. granulosus and serum CA-125 was within normal limit. Abdominal exploration revealed multiple cystic swellings with daughter cysts involving every intraabdominal organ except intestine (Fig 4). Debulking surgery (Fig 5) followed by chemotherapy with praziquantel and albendazole made uneventful but prolonged recovery. Patient is asymptomatic at eight months follow up.

**DISCUSSION**

More than 2000 yrs ago human echinococcus disease was described by Hippocrates with the particular term “Liver filled with water”. HD is endemic in many parts of world including India. Most frequently it affects liver (75%), Lung (15%) and other anatomic locations in 10%. However no organ is immune to affection. Peritoneal HD is almost always secondary to hepatic disease, although some unusual cases of primary peritoneal hydatidosis have been described. The overall frequency of peritoneal disease in cases of abdominal echinococcosis is approximately 13%.
Diagnosis of HD is usually radiological and aided by serological testing. USG is the first line of screening for abdominal hydatidosis. Sonographic appearance of HD may vary. The cyst wall usually manifests as double echogenic lines separated by a hypoechochogenic layer. Simple cysts don't demonstrate internal structures although multiple echogenic foci due to hydatid sand may be seen. Detachement of endocyst from pericyst may appear as floating membranes inside cavity. CT Scan best demonstrates cyst wall calcification and cyst infection. Wider field of view and better delineation of extent of disease as well as cyst wall make C.T scan imaging modality of choice in peritoneal seedling. It is also a useful modality to assess response to treatment. In diffuse peritoneal HD, medical management is preferred. The combination therapy with albendazole and praziquantel is more effective than either agent alone. Thickening, calcification of wall, reduction in size and number can be taken as therapeutic response on follow up CT Scan. HD may be confused with cystadenocarcinoma ovary. A preliminary diagnosis by either cytology and fine needle aspiration may not always be helpful as the thick mucin aspirated with poor cellularity could mimic the laminated membrane of hydatid and could be easily misinterpreted as ectocyst of HD. Familiarity with such atypical manifestations of HD may be helpful in the sense that such patients are explored and not discarded merely considering them as advanced carcinoma. Although literature describes medical treatment as the first modality for primary peritoneal hydatidosis, it would be a part of contention for such case, keeping in view the large size and associated distressing symptoms.

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References
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