Case Report

Rare case of ruptured uterus in previously normal delivered patient due to hydatid cystic disease in pregnant uterus

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INTRODUCTION

Hydatid cystic disease is parasitic disease caused by Echinococcus granulosus. Dogs and carnivores like fox are definitive hosts harbouring warms in intestine. Eggs passed in stools eaten by intermediate hosts and larvae encyst in liver, lungs and other organs. Humans are accidental hosts. Incidence of hydatid cystic disease in genital organs is low around 0.5%. Hydatid cyst most often found in liver - 60%, lungs - 30% accounting approximately 90% of the disease. Incidence of hydatid disease in pregnancy is very rare ranging from 1/20000 to 1/30000. 22 years old G2P1L1 with 39weeks gestation age (GA) with intrauterine fetal death (IUFD) with query ruptured uterus, extra uterine pregnancy, transverse lie with severe anaemia referred from Jalgaon civil hospital for further management.

Keywords: Hydatid cystic disease, Pregnancy, Echinococcus granulosus, Intrauterine fetal death

ABSTRACT

Hydatid cystic disease is parasitic disease caused by Echinococcus granulosus. Dogs and carnivores like fox are definitive hosts harbouring warms in intestine. Eggs passed in stools eaten by intermediate hosts and larvae encyst in liver, lungs and other organs. Incidence of hydatid cystic disease in genital organs is low around 0.5%. Hydatid cyst most often found in liver - 60%, lungs - 30% accounting approximately 90% of the disease. Incidence of hydatid disease in pregnancy is very rare ranging from 1/20000 to 1/30000. 22 years old G2P1L1 with 39weeks gestation age (GA) with intrauterine fetal death (IUFD) with query ruptured uterus, extra uterine pregnancy, transverse lie with severe anaemia referred from Jalgaon civil hospital for further management.

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INTRODUCTION

Hydatid cystic disease is parasitic disease caused by Echinococcus granulosus. Dogs and carnivores like fox are definitive hosts harbouring warms in intestine.

Echinococcosis or hydatid disease is an infection of sheep, cattle, pigs, horses or rodents caused by larval stage of canine tapeworm Echinococcus granulosus or Echinococcus multilocularis. Hydatid cysts due to the former are found more commonly in sheep-rearing areas of the world namely Australia, New Zealand, Argentina, Chile, India and Mediterranean region. Parasites are found in dogs (definitive hosts) and in sheep (intermediate hosts). The adult worm is located at the intestine of dogs; eggs or oncospheres are passed in the dog’s stool. Humans get infected by ingesting eggs, as people are intermediate hosts in the life cycle of worms. This occurs when people consume food or drinks contaminated with eggs or come into contact with fecal material containing eggs.

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Hydatid cysts during pregnancy are rare and there is no standardized recommended treatment. Both surgical and medical modalities have been tried. Hydatid disease of the liver is common in India; though it has not been reported during pregnancy from this part of India.

CASE REPORT

22years old G2P1L1 with 39weeks gestation age (GA) with Intrauterine fetal death (IUFD) with query ruptured
uterus, extra uterine pregnancy, transverse lie with severe anaemia referred from Jalgaon civil hospital for further management.

Patient has given history of chief complaints of pain in abdomen, fatigue, weakness since 2 days patient has started labour pain since 2 days with increasing frequency and intensity of contraction for about one day and suddenly loss of contraction and pain with increasing complaints of weakness and fatigue. On general examination patient having tachycardia with normal hypertension, severe pallor. Patient haemoglobin was 5.8gm and received one bag of blood during transfer. On per abdominal examination there was distension with multiple fetal parts palpable with presence of guarding, rigidity and tenderness. Fetal heart sound was not appreciable. Per vaginal examination os was closed with no bleeding, leaking or any discharge.

Her obstetric history was 3 years old living male child Full term normal delivery (FTND). She was unregistered and belongs to shepherd community. She has only recent ultrasound of 2-3 days back suggestive of single live
intrauterine pregnancy of 36.5 weeks GA with cephalic presentation. Referral day ultrasound shows IUFD with query extraterine pregnancy, ruptured uterus. Ultrasound done at our hospital single fetus of 35 weeks GA, absent FHS in abdominal cavity with positive spalding sign. Gross hemoperitoneum with dilated and aperistaltic bowel loops noted. 14x14 cm left adnexal cyst with multiple septation noted. Radiologist gives opinion of parovarion cyst or myoma.

Figure 5: Large hydatid cyst in posterior wall of the uterus.

Figure 6: Large hydatid cyst in posterior wall of the uterus and its attachment.

Figure 7: Large hydatid cyst in posterior wall of the uterus extending in pouch of dougles.

Figure 8: Excision of hydatid cyst with the help of cautary.

Figure 9: Large and daughter hydatid cysts.

Arrangement of blood, FFP preoperative preparation done patient shifted to operation theatre. Abdomen was opened 2.6kg IUD (intrauterine death) female child in macerated condition. Placenta delivered out (Figure 1 and 2). Approximately 100cc of hemoperitoneum was present. Suction irrigation done. Uterus in lower uterine segment was ruptured with having 7-8 cm vertical rent with irregular border (Figure 3). Edges were freshened and suturing done with vicryl no. 1-0. Anteriorly hemostasis achieved (Figure 4).

In posterior wall of uterus approximately 10x10cm cystic structure was noted in pouch of Douglass. (Figure 5, 6, and 7) Initially it was looking like degenerated myoma. It was the reason for obstructed labour leading to ruptured
Commonly reported anomalies if given in first trimester include limb defects and facial abnormalities. One case of liver hydatosis during pregnancy diagnosed at 25 weeks of gestation which was successfully managed by medical treatment only with oral albendazole was reported earlier from India. Vliet V et al managed a 20-year-old Turkish woman with three huge echinococcus cysts of the liver who was admitted in the third trimester of pregnancy. During pregnancy she received albendazole and during vaginal delivery she received both albendazole and medication aimed at preventing anaphylactic reaction (corticosteroids).

Surgery may be conservative or extensive. Surgery is still the first choice for type III cysts, type IV cysts, and cysts opening into the bile ducts or peritoneal cavity. There is often no need for therapy for type V hydatid cysts.

**CONCLUSION**

In conclusion gynaecologists should be kept in mind one of differential diagnosis of pelvic or adnexal mass in pregnancy may be hydatid disease though it is very rare.

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**REFERENCES**


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