Ectopic Molar Pregnancy: A Rare Entity

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Abstract

Introduction: Ectopic molar pregnancy is a rare occurrence and consequently not often considered as a diagnostic possibility. In this article, an attempt was made to stress on the need for histopathological examination and follow up of every case of ectopic pregnancy. This was substantiated with the help of a case report.

Case Presentation: A 30-year-old gravida 4, para 3, pregnant woman with a 7-week history of amenorrhea attended hospital with abdominal pain. Per vaginal examination revealed a tender left adnexal mass measuring 4x4 cm and on ultrasonography there was a live fetus corresponding to a 7-week and 6 days gestation with free fluid in the pelvic cavity. Laparotomy, revealed a ruptured left tubal ectopic pregnancy and histopathological examination was suggestive of a molar pregnancy.

Conclusion: Although rare, molar changes can occur at any site of an ectopic pregnancy. Clinical diagnosis of a molar pregnancy is difficult but histopathology is the gold standard for diagnosis.

Keywords: Ectopic molar pregnancy, Ectopic pregnancy, Histopathology, Human chorionic gonadotropin, Molar pregnancy.

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required facility and expertise.

During the operation, hemoperitonium was found with a normal uterus, an intact right-sided fallopian tube and a ruptured left tubal ectopic pregnancy. Consequently, left-sided salpingectomy was performed to maintain proper homeostasis.

Gross examination showed grey brown tissue, measuring 6x4x2 cm with moles ranging in size from 1 to 3 mm and a fetus corresponding to 6 to 7 weeks of gestation (Figure 1). The specimen was then subjected to histopathological examination (Figure 1).

On histological examination, there were chorionic villi showing circumferential trophoblastic proliferation, hydropic changes and karyorrhexis. Based on these findings, the possibility of a molar pregnancy was thought and serum β-hCG level determination was asked. Postoperatively, on the day of surgery, serum β-hCG was 5308 mIU/ml. Her post-operative period was otherwise unevenful, but she was followed up by weekly serum β-hCG measurements. The tests showed a decreasing trend and turned negative at the end of the 6th week. Barrier contraception was advised for at least 1 year during which she was also on regular follow-ups.

**Discussion**

Clinically, tubal molar pregnancy mimics normal tubal ectopic pregnancy and, therefore, makes the diagnosis difficult (3). However, provisional diagnosis is made during surgery and histopathological examination can determine the final diagnosis.

Molar changes may even be found in cervical pregnancies (4, 5). Molar changes can be detected by transvaginal color Doppler ultrasonography. Magnetic resonance imaging is also helpful in localizing the lesion.

Conservative fertility-sparing management was found successful in a reported case of cervical molar pregnancy (5).

Cornual pregnancy itself is a very rare condition and a challenging diagnosis to make. Rupture of the horn does not usually take place until the twelfth week of gestation but, when it does, there is nearly always severe bleeding which makes the condition extremely dangerous. Molar changes are even found in cornual pregnancies (6, 7). Reported cases of molar changes in ovarian pregnancy are also found in the literature (8).

Conservative fertility-sparing management was found successful in a reported case of cervical molar pregnancy (5).

One extensive study on routine pre-evacuation ultrasound diagnosis of hydatidiform mole suggests that ultrasonography identifies less than 50% of hydatidiform moles. Detection rates are, however, higher for complete compared to partial moles, and improve even further after the 14th week of gestation (14).

Histopathological examination of conception...
products remains the current gold standard for the diagnosis of gestational trophoblastic neoplasia. There is also a possibility of over-diagnosis by histological examination, especially in early ectopic tubal pregnancies, due to a more florid extra-villous trophoblastic proliferation compared with evacuated uterine products of conception (1). Extra caution should be taken to strictly apply the morphological criteria of circumferential trophoblastic proliferation, hydropic changes, scalloped villi and stromal karyorrhexis for diagnosis (15).

**Conclusion**

Ectopic molar pregnancy is a rare condition, which can occur at any place in the pelvic cavity. Invasive mole and choriocarcinoma might even follow such a pregnancy. However, ultrasonography might not be able to fully diagnose ectopic molar pregnancies, leaving histopathological examination of the conception products the current gold standard for the diagnosis.

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**References**