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Case Report

A rare case of spontaneous heterotopic pregnancy presented as ruptured ectopic pregnancy

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ABSTRACT

Heterotopic gestation, although common with assisted reproductive techniques, is very rare in natural conception. A high index of suspicion can help in timely diagnosis and appropriate intervention. We report a case of 30 year old patient who was treated for a heterotopic pregnancy. She had taken treatment for genital tuberculosis in the past. The patient presented acutely with a ruptured tubal pregnancy in shock and this was managed by emergency laparotomy. A high index of suspicion is needed in women with risk factors for an ectopic pregnancy and in low risk women who have free fluid with or without an adnexal mass with an intrauterine gestation.

Keywords: Heterotopic pregnancy, Ectopic pregnancy

INTRODUCTION

Heterotopic pregnancy defined as the coexistence of intrauterine (IU) and extrauterine gestation, was reported for the first time in 1708 by Duverney during an autopsy.¹ Spontaneous heterotopic pregnancy has traditionally been regarded as a rare and potentially dangerous clinical condition, with a very low incidence. In a spontaneous conception cycle, its incidence is about 1:25,000-1:30,000 pregnancies.^{2,3} Recently, the incidence has been rising in step with increasing risk factors for ectopic pregnancy such as PID, previous tubal surgeries etc. and the increasing use of ovulation induction and new assisted reproductive techniques in infertile couples and is approximately 1 in 7,000 overall and as high as 1 in 900 with ovulation induction.^{4,5} Heterotopic pregnancy can have various presentations. It should be considered more likely in the following cases: (a) after assisted reproduction techniques, (b) with persistent or rising chorionic gonadotropin levels after dilatation and curettage for an induced/spontaneous abortion, (c) when more than one corpus luteum is present in a natural conception, and (d) when vaginal bleeding is absent in the presence of signs and symptoms of ectopic gestation.

A high index of suspicion is needed in women with risk factors for an ectopic pregnancy and in low-risk women with an IU gestation with free fluid in pouch of douglas with or without an adnexal mass or in those presenting with acute abdominal pain and shock, due to the risk of ruptured ectopic pregnancy.⁶ Hence, early diagnosis and management of heterotopic pregnancy is crucial.

CASE REPORT

A 30 year old lady G₂P₁₊₀ with previous cesarean section, presented in our gynaecology emergency unit with acute abdominopelvic pain and bleeding per vaginum in shock with overdue of menses by 15 days. On examination, she was cold, clammy, dyspnoeic and hypotensive. Abdominal examination was suggestive of an acute abdomen with severe tenderness, guarding and rigidity. Her urine pregnancy test was positive. Clinical diagnosis at this stage was an ectopic pregnancy. This was a spontaneous conception. She was successfully treated for genital tuberculosis, 4 years ago. A transvaginal ultrasound was done immediately in emergency unit which showed a solitary IU gestational sac of approximately 5⁺² weeks with yolk sac without cardiac

CONCLUSION

The important learning point from our case was that the diagnosis should be suspected more frequently in women with known risk factors like genital tuberculosis, increased vigilance is required in such cases even if they are asymptomatic and an intrauterine gestation is confirmed. As in our case, on transvaginal scan even after finding an intrauterine early embryonic demise, meticulous scan of adnexae was done which leads to diagnosis of ruptured left ectopic pregnancy with hemoperitoneum. Immediately after diagnosing the condition, prompt decision was taken for exploratory laparotomy and her life was saved. This case highlights that doctors must be alert to the fact that confirming an IU pregnancy clinically or by ultrasound does not exclude the coexistence of an ectopic pregnancy that should systematically be suspected in any woman presenting with abdominal pain, bleeding per vaginum and hypovolemic shock during pregnancy.

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