A Ruptured Cornual Ectopic Pregnancy At 18 Weeks' Gestation: A Case Report

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Citation


Abstract

A cornual pregnancy is an ectopic pregnancy that develops in the interstitial portion of the fallopian tube invading through the uterine wall. Cornual pregnancies often rupture later than other tubal pregnancies because the myometrium is more distensible than the fallopian tube. Increased vascularity associated with interstitial ectopic pregnancies is more likely to result in a catastrophic hemorrhage and death. The mortality rate of interstitial pregnancy is more than twice that of other tubal pregnancies. We report a case where cornual pregnancy was diagnosed at 18 weeks of gestation after uterine rupture and profound hemorrhage occurred. The patient underwent hysterectomy. Close monitoring of pregnancies in these patients is important to prevent a deleterious delay in treatment of a cornual pregnancy.

INTRODUCTION

Cornual pregnancy is a rare form ectopic pregnancy. Interstitial pregnancies account for 2–4 % of ectopic pregnancies and that 20 % of cases that advance beyond 12 weeks of gestation end in rupture [1].

We report a case where cornual pregnancy was diagnosed at 18 weeks of gestation after uterine rupture and profound hemorrhage occurred.

CASE REPORT

A 32-year multigravida, G:2, P:1, presented in our clinic with the complaint of an acute lower painful abdomen at 17 + 5 weeks of gestation. She had severe abdominal pain 4 hours before admission. Her temperature was 35.3 °C, blood pressure (BP) 70/40 mmHg and pulse rate 72 beats/min. The lower abdomen was firmly tender with rebound. On her pelvic examination slightly enlarged uterus and cervical tenderness on motion had been detected. The initial laboratory tests included haemoglobin 7.5 g/dL, hematocrit 22.3 %. Platelet count, bilirubin, alanine and aspartate transaminase and alkaline phosphatase were within normal limits. Her past medical was not history was not informative, she had had an uncomplicated normal spontaneous vaginal delivery at term. She had no risk factors for ectopic pregnancy. On the abdominal ultrasonography, the endometrial cavity was empty and a 18-week-old viable fetus with gestational sac (FL: 24mm:17W1D, BPD: 39mm:18W) was depicted in the abdomen with massive free fluid. An emergency laparotomy was performed under general anesthesia. There was approximately 4000 ml of blood in the abdominal cavity with a male fetus (15.25 cm length, 192 g) protruded from the right ruptured cornual region. The rupture measured about 12-13 cm in diameter, and placental tissue protruded through it (Figure1 and 2). Normal left fallopian tube and, both ovaries were seen. Hysterectomy was done. Peroperatively, in total she had received 5 units of red blood cells and 2 units of fresh frozen plasma. The postoperative course was uneventful, and she was discharged on postoperative day 6 in good condition.
Cornual pregnancy is diagnosed with ultrasonographical criteria in the presence of a positive hCG level indicating pregnancy [6]. These criteria are: visualization of no gestational sac in the uterine cavity; illustrating an asymmetrically located gestational sac within the uterus (or in close proximity to the uterus); observing a thin myometrial layer surrounding the gestational sac or a thicker wall around the gestational sac. It has been also used transvaginal three-dimensional ultrasound scanning, with its capacity to reproduce the coronal plane of the uterus, facilitates exact localization of the gestational sac relative to the uterine cornu [7]. It's clear that the diagnosis of cornual pregnancy is dependent on the quality of ultrasound and the skills of investigator especially in hemodynamically stable patients. Cornual pregnancies often rupture later than other tubal pregnancies because the myometrium is more distensible than the fallopian tube. The intramural tubal segment lies in close proximity to the uterine artery and interstitial tubal rupture usually results in brisk hemorrhage and higher maternal morbidity and mortality rates than other ectopic pregnancies.

At a later gestation or after rupture, laparotomy with hysterectomy or cornual resection have been traditionally treated the cornual pregnancies. When an unruptured cornual pregnancy is diagnosed, there is a variety of conservative management options, such as medical management with methotrexate applied by parenteral route or directly injection of methotrexate or potassium chloride into the cornual gestational sac with ultrasonography guidance, laparoscopic cornual resection, and selective uterine artery embolization when conservative treatment with uterine preservation is desired [7,8,9]. In the previous reports, most of the authors used electric cauterization method for bleeding control and cornual incision. Some authors performed cornual resection without suturing the myometrial defect [10]. One of the major advantages of conservative treatment of cornual pregnancy is the preservation fertility and the key disadvantage is the risk of uterine rupture during the subsequent pregnancy. The method of deep cornual resection has an accepted risk for uterine rupture for the subsequent pregnancy [11]. In our case, because of the advanced condition of the pregnancy, the cornual was found to be largely ruptured with massive hemorrhage in the abdominal cavity. Therefore no other conservative therapeutic methods seemed possible. According to Brever H et al. [12], this case demonstrates the importance of maintaining a suspicion for ectopic pregnancy at advanced gestational ages and for uterine rupture even in the absence of symptoms.
References

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