Placenta Percreta: A Rare Cause of Mid Trimester Cornual Uterine Rupture

Shikha Rani* and Mamta Rani

Department of Obstetrics & Gynaecology, Government Medical College & Hospital, India

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*Corresponding author: Shikha Rani, Antenatal Medical Officer cum Lecturer, Department of Obstetrics & Gynaecology, Government Medical College & Hospital, Chandigarh, India, Tel: +9199646640559; Email: shikhataneja2000@yahoo.co.in

Abstract

Abnormal placentation and its complications had increased during the past few years. Ever increasing rates of cesarean section has been responsible for this. Placenta accreta is a life threatening condition. We are reporting a case of placenta percreta leading to cornual uterine rupture.

Keywords: Placenta Accrete; Uterine Rupture; Mid Trimester Collapse

Introduction

Various obstetrical causes of mid trimester collapse are known like incomplete abortion, ectopic pregnancy, uterine rupture, abruptio placenta, placenta previa and accreta and ovarian torsion. Spontaneous uterine rupture is an uncommon dreadful condition has been reported in 1 in 5000 deliveries [1]. Placenta percreta leading to uterine rupture is even rare. Placenta accreta is usually associated with some insult to uterine endometrium, myometrium or vascular supply.

Various risk factors for placenta accreta are previous cesarean section, myomectomy, uterine curettage, advance maternal age, multiparity etc. [2]. Placenta accreta is mostly associated with some uterine insult and is mostly in lower segment [3]. However, we are reporting a case of fundal placenta percreta leading to cornual uterine rupture.

Case Summary

36 yrs pregnant women G3P1L1AI at 19+3 weeks with previous cesarean reported in our emergency department with complains of painless bleeding per vaginum. On admission her vitals were stable. Per abdomen examination revealed 18 weeks relaxed uterus. There was no bleeding on local examination. Ultrasonography revealed a single live breech fetus with placenta starting from fundus anteriorly and partially covering os. There were no signs of placenta accreta in the lower uterine segment. Her first baby was born 9yrs back by lower segment cesarean section in view of placenta previa. She had a spontaneous complete abortion of 10 weeks gestation and no instrumentation was done. After 48 hrs of conservative management patient was discharged.

She was readmitted at 22+5 weeks with bleeding per vaginum associated with pain abdomen. On admission her vitals were stable. Per abdomen examination revealed 22 weeks relaxed uterus with soft abdomen. Per speculum examination showed closed so with minimal dark blood in vagina. On investigation her hemoglobin was 8.1 gm% and rest all investigations were normal. Ultrasonography confirmed the previous findings. On 4th day of readmission she complained persistent severe pain. Her pulse rate was 110/min low volume and blood pressure was 70/50mm Hg. Per abdomen guarding and rigidity, uterine height increased to 26 weeks and tenderness present all over. In suspicious of uterine rupture an urgent bed side ultrasonography was done. Ultrasound showed fundal uterine rupture with fetus lying in the peritoneal cavity. Immediate resuscitation was started and patient was shifted for laparotomy.

Figure 1: Left uterine cornual rupture.

Intra-operatively 1.7 liters of hemoperitoneum was present. Fetus was lying in the peritoneal cavity. Left uterine cornual
rupture was present (Figure 1). Placenta was densely adherent to uterine muscle at left cornual end, same was removed in piece meal. A small piece of myometrial tissue from cornual end was sent for histo-pathological examination. Left sided cornual repair with left salpingectomy and right sided tubectomy was performed. Postoperative period remained uneventful and patient was discharged. Histopathology report confirmed placenta accreta (Figure 2).

Discussion

Placenta accreta is a nightmare for an obstetrician as it associated with lot of maternal morbidity and mortality. The exact etiology of placenta accrete is not clear. Multiple factors which can lead to abnormal placentation are loss of decidua spongiosis, few decidual killer cells, relative hypoxia of cesarean scar tissue, increased trophoblastic inclusion [4,5]. This explains placenta accreta in sites other than lower uterine segment, patients without placenta previa, no history of uterine surgery or other high-risk situations. Like in our patient fundal placenta percreta leading to cornual rupture.

Ultrasonography is a very useful tool for screening of placenta accrete. Ultrasound evidence of placenta accreta are placental lacunae, interruption or bulging in bladder wall, myometrial thickness <1mm at placental site, loss of clear space between myometrium and placenta, placenta invading the surrounding structures. On color Doppler turbulent blood flow extending from placenta into the surrounding tissues. Ultrasonography is the mainstay imaging for screening for placenta accreta. Magnetic resonance imaging is complementary to ultrasonography [3]. However, high index of suspicion is required o diagnosed upper segment placenta accreta.

Upper segment placenta accreta usually presents in early pregnancy as acute abdomen [6]. Similar has been reported by Jang et al. [7] a case of placenta percreta leading to fundal uterine rupture at 14 weeks of gestation [7]. It was incidentally diagnosed on laparoscopy done for acute pain abdomen. Hornemann et al. [8] reported a case of placenta percreta induced uterine fundal rupture [8].

Except elderly women we couldn’t find any other high risk factor for upper uterine segment placenta percreta in our patient. Also the patient denied any dilatation and curettage for the abortion. Due to which diagnosis is delayed in our patient. High index of suspicion can help in early diagnosis of this dreadful condition.

Conclusion

Recognition, readiness and swift response to this threatening condition can help to have good maternal outcome.

Conflict of Interest

There is no conflict of interest.

References
