Case Report

Placenta Increta in a Ruptured Rudimentary Horn Pregnancy - A Rare Case

Subrata Pal¹*, Srabani Chakrabarti², Sanjay Sengupta², Biplab Kr Biswas²

¹Post Graduate Trainee, ²Associate Professor
Dept of Pathology, B S Medical College, Bankura, West Bengal, India.

*Correspondence Email: subratapal1985@gmail.com

ABSTRACT

Pregnancy in a rudimentary horn of uterus is very rare finding and placenta increta in a case of rudimentary horn pregnancy is much rarer occurrence. We are presenting a case of ruptured rudimentary horn pregnancy presented as an acute abdominal emergency, treated by laparotomy. Uterine horn with adhered placenta was resected out and sent for histological examination. On histological examination trophoblastic tissues were deeply infiltrated in the myometrium and intervening decidual layer was absent. Final histological report of placenta increta in a rudimentary horn was done. In conclusion, prompt diagnosis and operative management can avoid catastrophe in a case of rupture rudimentary horn pregnancy with placenta increta.

Key words: Rudimentary uterine horn, rupture of pregnant uterine horn, placenta increta.

INTRODUCTION

Pregnancy in rudimentary horn of uterus has been infrequently reported. But Documented incidence of rudimentary horn pregnancy varies from 1:76000 to 1:140,000 pregnancies. But majority of these pregnancies (80%-90%) usually cause rupture of rudimentary horns during 10th to 20th weeks of gestation resulting fatal haemorrhage. Placenta increta in rudimentary horn is very rare complication of pregnancy. Till now only few cases are reported in world literature. Except few reported cases, most of the pregnancies resulted in uterine rupture leading to massive bleeding with serious morbidity and mortality in young females. However early diagnosis with termination of pregnancy by resection of the rudimentary horn and proper resuscitation can avoid serious and potential catastrophes associated with ruptured rudimentary uterine horn pregnancy complicated with placenta increta.

CASE REPORT

A 27 year old primigravida mother admitted in our obstetrics emergency with severe abdominal pain and severe anaemia during 16th week of pregnancy. She was not a booked case of our institution and was not assessed by ultrasound yet. On clinical examination foetal heart sound was absent, blood pressure was 100/64 mm of Hg and severely anaemic. Following resuscitation patient was urgently sent for emergency laparotomy. On laparotomy she had massive...
intra-peritoneal bleeding (approximately 1500ml), ruptured rudimentary horn of uterus and products were in peritoneal cavity. During laparotomy placenta could not be out due to its adherence at myometrium of the rudimentary horn. The rudimentary horn with the adhered placenta was excised out and sent for histological evaluation. Patient was transfused four units of whole blood and post operative management done in critical care unit. She responded well with post operative management.

On gross examination it was a 6x4x3 cm3 mass covered by peritoneum on its anterior and post aspect. There was a rupture area at fundus of the horn and placental tissue had been invaded deeply in myometrium (Image 1). Multiple serial sections examined from different parts of the specimen. Trophoblastic tissues were invaded deep in the myometrium and the intervening decidual layer was absent (Image2, 3). But placental tissue had not encroached to serosa at any place. Final histopathological report of placenta increta in rudimentary horn was done.

DISCUSSION

Partial development of contra lateral mullerian duct of a unicornuate uterus leads to formation of rudimentary uterine horn. According to American Fertility Society classification of mullerian anomalies it is a class II anomaly.[4] Pregnancy in rudimentary horn is an extremely rare clinical condition. Theory of intraperitoneal transmigration of spermatozoon (by Nahun et al) or fertilized ovum explains the causation of rudimentary horn pregnancy.[10] Whatever may be the mechanism, pregnancy in a rudimentary horn is associated with high chance of spontaneous abortion or rupture of the uterine horn if pregnancy progresses. Pregnancy in rudimentary horn usually ruptures at 2nd trimester causing massive peritoneal haemorrhage and serious maternal mortality & morbidity.[5]
previous literature, only few cases had been diagnosed pre-operatively as unruptured rudimentary horn pregnancy. Diagnosis of rudimentary horn pregnancy is possible by MRI or strong ultrasound in earlier weeks of gestation but ultrasound has significant false evaluation as ectopic, corneal or isthmic pregnancy. Placenta increta is thought to be due to lack of decidual response in endometrium and variable degree of myometrial penetration by chorionic villi. Oral et al. had shown that estimated prevalence of placenta accreta in rudimentary horn pregnancy might be more than 10%. Unlike placenta increta in uterine pregnancy, prior cesarean section, manual removal of placenta and myomectomy could not explain the causation of placenta increta in rudimentary uterine horn pregnancy. It may be due to improper development of relatively weak myometrium which lacks in decidual reaction. Rupture of rudimentary horn pregnancy can be explained by its weak and thin musculature and improper ability for distension during progression of pregnancy. In uterine pregnancy placenta increta can be diagnosed prenatally by MRI & Doppler ultrasound but ultrasound has significant false negativity. But in case of placenta increta in rudimentary uterine horn pregnancy it is very difficult to diagnose by ultrasound and only possible mean is MRI.

CONCLUSION

However most of the previous literatures suggest immediate elective surgery in a case of rudimentary horn pregnancy even it is unruptured to avoid life threatening haemorrhage. Urgent resuscitation & laparotomy are recommended for a ruptured rudimentary uterine horn pregnancy to avoid catastrophe as it is serious and potentially fatal.

REFERENCES


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