



ORIGINAL RESEARCH PAPER

Obstetrics & Gynaecology

A RARE CASE OF CENTRAL PLACENTA PREVIA ACCRETA

KEY WORDS: Central placenta previa with accreta, massive Blood loss, radical surgery

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ABSTRACT

“Surgery is like hunting, If you are going for a rabbit, Be prepared to face a tiger”
Placenta previa accreta, is a rare occurrence which occurs in 3 % of women diagnosed with placenta previa with massive blood loss in almost every case resulting in cesarean hysterectomy. We report the case of central placenta previa with accreta in a case with no cause known to precipitate it. With aggressive radical surgery, massive transfusion protocol, well prepared to face it unexpectedly and vigilant postoperative management, such cases can be managed successfully.

Introduction:

Placenta previa is the complete or partial covering of the internal Os of the cervix with placenta. It is a severe complication of pregnancy and is the most common cause of post-partum hemorrhage, which often endangers the lives of pregnant women, can lead to morbidity and mortality of the mother and neonate. A study conducted by B Kavitha, Bansal H Pota Placenta previa is frequently reported to occur in 1 in 200-250 pregnancies This situation prevents a safe vaginal delivery and requires the delivery of the neonate to be via caesarean delivery.

Placenta accreta is a pathological condition of placentation associated with massive maternal hemorrhage. Initially described in 1937 by Irving and Hertigl as abnormal adherence of placenta to the myometrium due to the partial or complete absence of decidua basalis subsequently redefined by Luke et al as a spectrum of abnormally adherent and invasive placentation disorder. The presence of placenta previa can also increase a woman's risk for placenta accreta spectrum (PAS). A combination of both placenta previa and PAS is therefore further dangerous threatening mother and newborn both.

Case History:

A 32-year-old woman (gravida 3 para 2 live 2, both delivered normally and no abortions or h/o curettage) with 38.2 weeks of GA referred in emergency to GMCH, Aurangabad our tertiary care Centre with complaint of first episode of painless fresh vaginal bleeding. No ANC visits in 2nd and 3rd trimester with no blood investigations were done. Routine early scan at 17 weeks s/o posterior low lying placenta. Obstetric Ultrasound done in emergency suggested grade 4 placenta previa only. Emergency LSCS for placenta previa in bleeding phase was done. A healthy baby weighing 3.1 kg was delivered. The placenta was not in incision line over LUS. There was evidence of complete placenta previa and no plane of separation between placenta and uterus with excess bleeding. There was no encroachment on urinary bladder. So, Total Obstetric hysterectomy with placenta in situ was done as a life-saving procedure after taking written valid informed

consent. The total intraoperative blood loss was 1.5 liters. Massive transfusion protocol i.e. 4-units of PRBC, 4-units of RDP and 4-units of FFP were given. Post-operative recovery was good and she went home healthy.

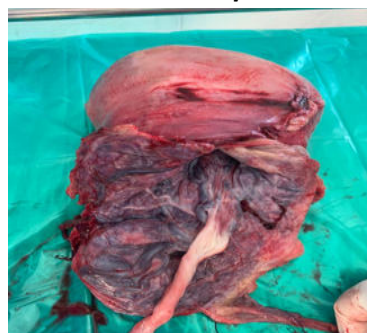


Figure 1-Gross specimen after Obstetric Hysterectomy

Discussion-

As discussed in American Journal of Obstetrics and Gynecology in June 27 year 2020 by Frances M. Anderson-Bagga; Angelica Sze, the incidence of placenta previa accreta^{3,4} has increased from approximately 0.8/1000 deliveries in the 1980's to 3/1000 deliveries in the past decade. In 20 studies studied by Eric Jauniaux, Lene Gronbeck and Sally L Collins⁵, out of 6628 cases of placenta previa, 587 were complicated by PAS. Prevalence of previa was 0.56% whereas the prevalence of placenta previa with PAS was 0.07%. Incidence of PAS in women with placenta previa was 11.10%.

The risk factors for placenta previa are advanced maternal age, multiparity, smoking, cocaine use, prior suction and curettage, assisted reproductive technology, history of cesarean sections and prior placenta previa.^{5,6,7} Usual presentation at the time of admission in 2nd and 3rd trimester is painless vaginal bleeding⁸. In our scenario, patient was a multigravida with painless fresh vaginal bleeding for the first time with no risk factor to explain placenta previa with PAS.

Nearly 90% of placentas identified as "low lying " will ultimately resolve by the third trimester. Follow up sonogram is recommended at 28-32 weeks of gestation to look for persistent placenta previa. Ultrasonography has very high sensitivity of about 93% and specificity of about 71% in the diagnosis of placenta accreta spectrum (PAS)⁹. The role of MRI has increased in recent years in its diagnosis. In our case, ultrasound USG at 17 weeks showed low lying placenta and 38.2 weeks suggested placenta previa. PAS was not reported.

Bedrest, reduced activity and avoidance of intercourse are commonly recommended in early diagnosed placenta previa cases and if the vaginal bleeding subsides for more than 48 hours and fetus is judged to be healthy then inpatient monitoring is continued or patient can be discharged for outpatient management. Also, outpatient vs. inpatient management depends on the stability of the patient, number of episodes of bleeding, proximity to the hospital, as well as compliance. Frances M. Anderson-Bagga suggested that with the early diagnosis of dangerous placenta previa, the patient can be scheduled for elective delivery at 36-37 weeks via C-section but patients with excessive or continuous vaginal bleeding should be delivered via C-Section in emergency situation regardless of gestational age. This case presented for the first time with first episode of bleeding PV at 38.2 weeks and was taken for emergency caesarean section.

A study conducted by Frances M. Anderson-Bagga; Angelica Sze suggested that conservative management is also one of the options in managing patients with PAS if the patient desires fertility. The placenta can be left in situ until there is devascularization of the placental bed so that the remaining placental tissue may either be safely removed or resorbs itself . However there is high recurrence rate of placenta accreta in the next pregnancy ranging from 17 to 29%¹⁰. A review by Kenji Tanimura and Hideto Yamada submitted on march 29th 2018 which summarized the conservative management of 60 women with placenta accreta , showed that infection occurred in 11 women (18%), bleeding in 21 (35%), and disseminated intravascular coagulation in 4(7%). Therefore conservative approach should be considered only when women are willing to accept the risks involved. In our case patient was multigravida with previous two live issues so option of obstetric hysterectomy was chosen.

Preterm birth, vaginal bleeding, placenta accreta, placental abruption, bladder injuries during hysterectomies, ICU admissions, septicemia and even death are the common complications of placenta previa accreta Despite the early and accurate prenatal diagnosis, hysterectomy remains the most common surgical procedure in cases of placenta previa accreta. In our case emergency C- section was immediately proceeded to obstetric hysterectomy. So, during surgery we transfused massive transfusion protocol and retrograde filled up the urinary bladder with normal saline to delineate the bladder and operated on the uterus to avoid any injury to it.

Morbidity and mortality after peripartum hysterectomy are significant. A study conducted by Lovina S.M.Machado has nationwide sample of women in USA who underwent obstetric hysterectomy, reported a mortality rate of 0 to 12.5% , whereas morbidity ranged from 26.5% to 31.5%. Massive blood loss, injuries to genitourinary tract are most common, with reported rates of cystotomy of 6-29% and ureteric injuries in up to 7% of women¹². Postoperatively febrile complications, bowel dysfunctions are relatively frequent. Among women who require re-exploration, approximately three quarters cases are to control bleeding, whereas the remainder are procedures for the repair of operative injuries. In our case patient had no intraoperative complications and remained healthy postoperatively.

Conclusion:

Placenta previa accreta though commonly seen in cases having predisposing high risk factors, it may also be seen unusually without any precipitating cause. So, one should be adequately prepared to surgically face it, unexpectedly with team approach , Massive transfusion protocol, timely surgery and avoiding injury to vital structures can reduce the morbidity and mortality.

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