Spontaneous Hemoperitoneum Masquerading Placental Abruption: A Case Report

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Hemoperitoneum during pregnancy is a rare but potentially life threatening condition to both mother and fetus. Spontaneous hemoperitoneum may develop from rupture of various abdominal or pelvic viscera like spleen pancreas and also uterus from the uterine ovarian vessels and rarely from pelvic endometrial implants. It mimics placental abruption having similar clinical presentation like acute abdominal pain, peritonitis, shock and fetal distress or death. We present a case of spontaneous rupture of superficial uterine vessels in third trimester of pregnancy with an objective to share our experience in managing this rare emergency condition having diagnostic dilemmas.

Keywords: Placental abruption, rupture of uterine vessel, spontaneous hemoperitoneum

INTRODUCTION

Hemoperitoneum during pregnancy is rare but potentially life threatening to both mother and fetus. Spontaneous hemoperitoneum may develop from rupture of various abdominal or pelvic viscera like spleen pancreas and also uterus from the uterine ovarian vessels and rarely from pelvic endometrial implants. It mimics placental abruption having similar clinical presentation like acute abdominal pain, peritonitis, shock and fetal distress or death. Timely surgical intervention with appropriate volume replacement provides the best outcome.

We present a case of spontaneous rupture of superficial uterine vessels in third trimester of pregnancy and its objective is to share our experience in managing this emergency condition though rare in pregnancy and all the diagnostic dilemmas we had during this case management.

CASE

A 23 year unbooked primigravida, at 27 weeks 5 days period of gestation presented in Nobel Medical College Teaching Hospital on 15th April 2012 with acute abdomen for 12 hours without any history of trauma and bleeding. On examination, she was not pale, blood pressure was 100/60 mmHg, pulse rate was 74/min, abdomen was tense and tender (Fig 1) with regular FHS of 130/min. Patient was admitted and administered IV antibiotics and analgesics. Ultrasound (USG) on the same day revealed normal obstetric scan with small uterine myoma of 3cm in the anterior myometrium.

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With the suspicion of red degeneration of myoma, conservative management was done, until the haemoglobin (Hb) was noticed to fall down from 12gm% to 7.2gm % the next day and repeat USG showed a picture of frank hemoperitoneum. She was transfused with 2 units of O positive blood and emergency exploratory laparotomy was done on 3rd day of admission with clinical impression of Abruptio placenta.

**COMMENT**

Spontaneous hemoperitoneum during pregnancy is rare and the associated morbidity and mortality rates are approximately 49%. The pre-operative diagnosis is usually placental abruption in majority of cases but this has not been the case always. 1-5

On opening abdomen, source of bleeding vessel may not always be visible even after thorough exploration in the case of hemoperitoneum. 1 However, rupture of ovarian venous plexus in later half of pregnancies contributing to hemoperitoneum have come to knowledge through two reported cases in this connection. It is said that rupture of utero-ovarian plexus usually occur in the third trimester but can occur in all trimesters besides puerperium.4 Primary cause for this is still obscure but physiological increase in blood flow to the utero-ovarian vessels during pregnancy imparted by dilatation of vessel may be reasoned to undergo spontaneous rupture. Uterine surface varicose vein have also been involved in rupture and veins over the posterior wall of the uterus like our case has been mentioned. 2,3, 5 One such case that resembles our case, where superficial vein on the posterior uterine wall that got ruptured at 32 weeks of gestation but where both baby and mother were saved by timely caesarean section and volume replacement is worthy of mention here. 3 There have been few cases culminating in hysterectomy, like that of ours. 2

**CONCLUSIONS**

In conclusion one must always think of the rare possibility of rupture of venous supply in and around uterus before the lab findings of drastic fall in hematocrit in cases of acute abdomen in pregnancy as with this case.

**REFERENCES**