Rudimentary Horn Pregnancy with Intrauterine Fetal Death

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Abstract
We present a 34 week by date but 21 weeks by USG intact rudimentary horn pregnancy with intra uterine fetal death, that is not communicating with uterus. In this case, initially, induction was done by PGE2 and Misoprostol, it failed; which is why laparotomy was done, revealing about 20 wks size globular mass (20 x 20 x 16) attached on right side of the uterus. Right ovary and right Fallopian tube were normal, attached with the mass. Uterus, left ovary and left fallopian tube were normal.

Key words: Noncommunicating rudimentary horn, pregnancy, unicorneuate uterus.

Introduction
Mauriceau reported first case of rudimentary horn pregnancy in 16691. Unicornuate uterus with rudimentary horn is a rare type of uterine malformation which is susceptible to many obstetrical complications, and in 80-90% cases of rudimentary horn, there is no communication between the two uterine cavities2. Incidence of pregnancy in such rudimentary horn cases is 1 in 76,0001. Conception in non-communicating rudimentary horn arises by trans-peritoneal migration of either spermatozoa or the fertilized ovum from the contralateral side3. Pregnancy outcome is poor, and the most dreaded complication is rupture of rudimentary horn pregnancy. In 80% of cases, the uterine rupture occurs in the first and second trimester; and in 20%, in the third trimester1. Only 8% of rudimentary horn pregnancies are diagnosed before the symptoms appear.

Case
25 years old Primi from Salyan came to our Out Patient Department on 13th Nov 2009 (27th of Kartik 2066) with complaints of amenorrhea for 8 months and absent fetal movements.

Patient was apparently all right 8 months back; she went to local health post when she missed her period, where pregnancy test was done was positive. She had two antenatal visits at two months and four months. First trimester was uneventful. By date it was 34 weeks of gestation.

On examination her general condition was good. No pallor, no icterus, no edema. Her vital sign were within normal limit.

Chest and cardiovascular system were normal. On abdominal examination, the height of uterus was 18 weeks size which was not corresponding to the period of amenorrhea. Foetal part was palpable but there was no foetal heart sound. Per vaginal examination revealed eighteen weeks size mobile mass palpable. The cervical os was closed, cervix was uneffaced and tubular. Ultrasoundography was done which showed gravid uterus with single dead fetus of 21 weeks. Cranial bones were over lapped, complete flexion of spine noted. Amniotic

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Fig1a. Fetus in right rudimentary horn.
fluid was nil. Placenta was posterior. She was admitted in labour room for induction in view of intrauterine fetal death. As all investigations were within normal limit, she was induced with 2 doses of PGE₂ 8 hours apart followed by 200μg of misoprostol start and 400μg four hourly 4 doses (total – 1800μg). As there was no uterine contraction, abdominal pregnancy was suspected and ultrasonography was repeated that showed single dead fetus enclosed within the membrane lying outside the uterus on the right side, within the broad ligament. With the diagnosis of pregnancy in right horn of bicornuate uterus, Laparotomy was done. Intraoperatively about 20 weeks size globular mass (20×20×16) was seen attached on right side of the uterus. Right ovary and right Fallopian tube was normal which was attached with the mass. Uterus, left ovary and left fallopian tube were normal. Cut section revealed single dead male fetus about 20 weeks size with placenta (fig 1) which was not communicating with uterus.

Her post operative period was uneventful; she was discharged on 8th post operative day.

**Comments**

It is difficult to make the diagnosis of rudimentary horn pregnancy before it ruptures or surgical exploration. However trans-vaginal ultrasonography has been successful in detecting such anomaly where laparoscopic management has been carried out. 7. Implantation in the rudimentary hemi uterus is associated has been associated with intra uterine fetal demise, similar to our case. 8

More liberal use of high-resolution sonography and MR imaging in doubtful cases may assist in an earlier diagnosis of rudimentary horn pregnancy making better surgical or medical therapy possible 9, 10.

In conclusion, reassessment of the case topped up with repeat ultrasound for a non-responsive uterus to prostaglandin supplemented by laparotomy proved non-fatal and rewarding.

**References**