Introduction
The rudimentary horn pregnancy (RHP) (incidence of 1/10,000 to 1/40,000) usually ends up in rupture of gravid horn in second or third trimester, leading to potentially fatal hemorrhage. Modern modalities can diagnose it in a very early pre-rupture stage, thus making medical management possible (1). Acute presentation at an early gestation is a very rare phenomenon. This case reports such an early presentation in the first trimester at 8 weeks, which has not been reported so far in literature.

Case Presentation
A 30-year-old third gravida with previous two institutional vaginal deliveries, last delivery 3 years back, presented with acute abdominal pain with hemorrhagic shock following 2 months amenorrhea. Her urine pregnancy test was positive, gestational age being 9 weeks by last menstrual period and 8 weeks 5 days by a scan done at 7 weeks reporting an intrauterine pregnancy. With normal menstrual history and history of barrier contraceptive usage, she had first antenatal visit about 2 weeks back to an obstetrician, who without pelvic examination advised a dating scan. She was pale, had cold extremities, blood pressure of 88/50 mm Hg and pulse rate of 120/minute. There was marked lower abdominal guarding and tenderness with dull percussion note in both flanks. Vaginal examination revealed a soft, bulky uterus deviated to the right side with a tender, soft to firm mass through left fornix. Her hemoglobin level was 6 gm/dl. Immediate trans-vaginal sonography done in casualty room showed a normal size uterus with a heterogeneous complex cystic mass of 5.5×6 cm in left adnexa and evidence of free fluid in peritoneal cavity. With provisional diagnosis of ruptured ectopic pregnancy with shock, the patient immediately underwent emergency exploratory laparotomy along with simultaneous volume resuscitation. There was about 1 litre hemoperitoneum. The uterus was unicornuate with absolutely normal right adnexa. A non-communicating rudimentary horn (RH) on left side carrying the ectopic sac was in the process of rupture with surrounding omentum adhered to it, with area of active bleeding (Figure 1). The horn was connected to the left wall of the uterus by a thick fibrous band with the ipsilateral adnexa stretched over it. The RH with left tube and contents of ectopic pregnancy was excised along with right tubal ligation (Figure 2). She received 3 units of blood transfusion and was discharged on seventh post-operative day. Follow up at 1 month was normal. Histopathology report further confirmed the diagnosis.

Discussion
In non-pregnant state, RH is the most difficult congenital mullerian malformation to be detected in a silent state.
Unicornuate uterus with a RH often presents with recurrent first trimester abortions (5%-10%), a second trimester loss (25%), or is incidentally discovered during an infertility work-up. There may be wide spectrum of clinical presentation ranging from a trivial dysmenorrhea in adolescence to intractable vague pelvic pain in a parous woman (2). Hematometra is uncommon due to lack of menstrual shedding from associated aplastic or hypoplastic endometrium. However, our patient had normal gynecological history with previous normal reproductive outcomes.

RHP is due to the intraperitoneal transmigration of the sperm or contra-lateral tubal pick up of the fertilized ovum in the peritoneal cavity. The musculature of RH is thin and mal-developed and endometrium is non-functional invoking a pathological placentation. Natural history of RHP involves rupture occurring in 80%-90% in second or early third trimester; however term is reached by only 10% with a fetal salvage rate of 2% (3-5). Abdominal pregnancies reaching term after rupture of RH, with its placenta deriving fetal blood supply from RH myometrium, have been described in the literature where the pregnancy outcome was a live fetus by cesarean section (2).

In our case the patient had normal gynecological history for timely diagnosis using the existing radiological modalities thus help in timely management.

The standard treatment of RHP, normal or complicated, involves fetal extraction with or without excision of RH along with the ipsilateral tube. Combined medical and surgical treatment has also been suggested (1). Certain other authors’ even proposed prophylactic resection on diagnosis or as incidental finding to avoid any future obstetric insult, but future pregnancy will then require close follow up (2).

**Conclusion**

The clinicians should bear high index of suspicion for this entity even in patients with normal obstetric and gynecological history for timely diagnosis using the existing radiological modalities for prompt treatment to avoid any morbidity or mortality.

**Ethical issues**

Written informed consent was obtained from the patient for publication of this case report and accompanying images.

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Conflict of interests
The authors declare no conflict of interests regarding this manuscript.

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References

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