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.
Secondly a very early rupture due to the thin horn wall and a hypoplastic cavity was evident. Even the only scan which was done, failed to detect the ongoing RHP. Thor-ough search of electronic database of Pubmed and Google Scholar from 1950 to 2014 using MeSH terms “rudimen-tary horn pregnancy”, “acute”, “rupture”, and “first trimester” did not show any case of such early first trimester acute presentation (8 weeks).

Although having a diagnostic dilemma till rupture, high clinical index of suspicion supported by radiological diagnostic modalities may help to clinch and treat it at pre-ges-tational or pre-rupture state before it causes emergency leading to maternal morbidity or mortality. However, in case of emergency prompt diagnosis and immediate re-oval of the RH is lifesaving. Even a simple pelvic finding of a soft, lateral mass corre-sponding to a small gravid horn with a normal uterus should raise the clinician’s doubt. The obstetrician where the patient had her first antenatal visit could have caught the condition by doing a simple pelvic examination. But this is subjective needing clinical expertise. While pre-pregnancy diagnosis can be reached by hysterosalpin-gography, laparoscopy or hysteroscopy, antenatal di-gnosis can be made by a simple trans-vaginal ultrasono-graphy. Expertise is needed to detect it by ultrasound at pre-rupture state. Even in our case the diagnosis was missed at 7 week scan. Ultrasound can confirm RHP by revealing pregnancy circumscribed by a variable thickness of myometrium. This myometrial thickness is not seen in tubal ectopic pregnan-cy (10). Three dimensional ultrasound can be of special help in detecting mullerian anomalies. However, the diagnosis can be elaborated by using MRI, but could not be done in our case owing to the emergency state. Radio-im-aging 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 gyne-cological 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 im-
ages.

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

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