Live twin ectopic pregnancy with a high βhCG value in a woman with a poor obstetric history.

A case report

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Introduction
Twin ectopic pregnancy is rare, with about a hundred cases described worldwide (1) and an estimated incidence of 1 in 200 of all ectopic pregnancies (2). The incidence of live twin tubal pregnancy is reported as 1 in 125,000 pregnancies with only 8 reported cases of fetal cardiac activity (1, 3) found in the English literature. Quantitative βhCG and ultrasound has revolutionised early diagnosis and outcome.

Case report
A 29 year old woman, gravida 4, para1, presented at the Pretoria Academic Hospital with an 8 week history of amenorrhoea, lower abdominal pain and vaginal bleeding for 2 weeks. She had a poor obstetric history, with a previous fresh stillborn baby at term (home birth) and 2 previous spontaneous first trimester miscarriages (at 8 weeks and 12 weeks). On examination she was haemodynamically stable with generalized tenderness, rebound and guarding over her lower abdomen. There was a palpable mass in the left iliac fossa. On vaginal examination, the cervix was closed with cervical excitation tenderness. The haemoglobin was 12.9g/dl and the quantitative βhCG 110 744mIU/ml.

Transabdominal and transvaginal sonar revealed an empty uterus with an ectopic twin pregnancy on the left side. The crown rump lengths were 27.4mm (9 weeks 4 days) and 37.3mm (10 weeks 1 day) respectively with fetal cardiac activity present in both and a membrane separating the twins (Fig. 1, 2). There was free fluid in the pouch of Douglas (Fig. 3).

At laparotomy 800ml haemoperitoneum with a ruptured left tubal twin ectopic pregnancy in the ampulla was found (Fig. 4). A left salpingectomy was done and no post-operative complications occurred.

Discussion
Various authors have reported an association between recurrent spontaneous abortions and ectopic pregnancies, suggesting a common risk or etiological factor. The relative risk for ectopic pregnancy after recurrent early losses was found to be between 2.2 and 4.3 (4, 5). This is the first report of a twin ectopic associated with a poor obstetric history including early pregnancy losses. One previous case report in the literature reported a
twin ectopic in a gravida 7, para 4 woman without describing her obstetric history. We could not find a known association between twinning and recurrent miscarriage. The highest previously published βhCG value in twin ectopic was 31 672mIU/ml (mean value 9 846mIU/ml) in a 7 week pregnancy (Ansari). The highest gestational age reported in recent literature (with ultrasound diagnosis) was 11 weeks (Shivanand) however, the βhCG value was not reported. The mean reported gestation is 8 weeks. As far as we could establish, our patient (at gestational age of 10 weeks) had the highest βhCG level ever reported for twin ectopic pregnancy. Multiple pregnancies, live and advanced ectopic pregnancy are known to be associated with higher βhCG values than expected.

Figure 1. Transabdominal ultrasound image demonstrating CRL of twin 1 and membrane separating the sacs.

Figure 2. Transabdominal ultrasound image with CRL of twin 2.
Figure 3. Transabdominal ultrasound image demonstrating empty uterus, free fluid and ectopic pregnancy.

Figure 4. Twin fetuses found in ruptured left fallopian tube.
References


