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4-3-2018

Spontaneous Heterotopic Pregnancy in Natural Conception: A Case Report

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Citation

Aziz, Muhammad; Dou, Cristina; and Arronte, Julio, "Spontaneous Heterotopic Pregnancy in Natural Conception: A Case Report" (2018). *All Publications*. 2754. https://scholarlycommons.baptisthealth.net/se-all-publications/2754

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INTRODUCTION

- Heterotopic pregnancy (HP) is the concurrent development of an intrauterine pregnancy and an ectopic pregnancy (1).
- It is associated with significant risk of maternal and fetal morbidity and mortality, it can even increase the maternal mortality risk up to 90 times greater than that of a normal intrauterine pregnancy when the ectopic is implanted in the abdomen (2, 3).
- The incidence of HP is not uncommon and it ranges from 1 in 30,000 pregnancies in natural conception cycles and can go up to 1 in 3900 pregnancies because of invent of assisted reproduction techniques (ART).
- Other risk factors include family history of multiple gestations, tubal disease, history of pelvic inflammatory disease, elevated female hormones, high numbers of transferred embryos, and technique of embryo transfer (4, 5).
- Current case is relatively rare case of heterotopic pregnancy in a patient with natural conception, who also reported a strong family history of multiple gestation pregnancies. Patient was born as a product of twin pregnancy as well.

CASE PRESENTATION

- ✤ 28 years old Hispanic White nonsmoker female with PMH of liposuction of abdomen and tonsillectomy, presented to ER with complaint of severe abdominal pain, dyspnea, chest pressure, chills, sweats, and pelvic pain.
- At presentation, patient stated that she is 7 weeks pregnant.
- Family history later explored was significant for multiple gestation in her grandmother, mother and her sister.
- Stat EKG, cardiac troponin and pancreatic function tests were negative. Quantitative hCG was 111,360.0 MIU/ML. Transvaginal ultrasound (TV US) showed HP as first gestational sac as 6 weeks 0 days and second gestational sac as right adnexal ectopic pregnancy at 7 weeks 3 days along with a corpus luteum cyst in left ovary.
- Ultrasound was repeated to confirm findings of Heterotopic pregnancy.
- Since this was a desired pregnancy, patient opted to preserve IUP despite risks and to proceed with removal of ruptured ectopic.
- Laparoscopy with right partial salpingectomy, lysis of adhesions and evacuation of hemoperitoneum was performed successfully. Uterus was not explored in order to keep IUP alive. The pathology report showed right fallopian tube with products of conception containing chorionic villi admixed with focally organizing blood clot, proteinaceous debris, scant mucin and blood consistent with tubal ectopic pregnancy.
- Patient was discharged home stable on post op day 1 with recommendation for next couple of days follow up with OB outpatient for her IUP.
- Patient had to visit ER again in next couple of days with c/o vaginal bleeding.
- Stat TV US confirmed abortion with no intrauterine cardiac activity.
- Dilatation and Curettage was performed and pathology report showed partly necrotic decidua, part of endometrium and chorionic villi consistent with missed abortion.

Spontaneous heterotopic pregnancy in natural conception: a case report

Fig 1. Uterus Trans



Fig. 2 Right Adnexa Trans

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FIGURES



- manifestations (2).

- practice (9, 10).
- history of liposuction of abdomen.
- hormones, diet, and race (11-12).

IMPLICATIONS FOR PRACTICE

and families.

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DISCUSSION

HP poses unique therapeutic challenges, as its clinical presentation can easily be confused with other normal and abnormal pregnancy

A detailed history and physical examination is of crucial importance to explore all possible risk factors related to heterotopic pregnancy (4, 5). Management include least invasive therapy to remove tubal pregnancy and preserve the IUP as systemic medical therapy such as methotrexate is contraindicated in the presence of a viable IUP (7, 8). Although the incidence of HP has been increased tremendously over the last decade because of assisted reproduction techniques (ART), yet the other possible causes of HP should not be ignored in clinical

Our case study patient did not seek any ART but patient reported a strong family history of multiple gestation pregnancies and also

According to US statistics, about two-thirds of the increase in the twin birth rate in the last three decades is likely associated with assisted reproductive technology (ART) and non-ART infertility treatments and rest of one third could be related to other factors including family history of multiple gestation on father and mother side, use of

Current study signifies the importance of collecting family history of multiple gestations in child bearing age women and counseling them accordingly regarding the potential benefits and risks of multiple gestations. The women with increased risk of multiple gestations need close monitoring and frequent prenatal visits for the pregnancy care.

Women with multiple gestations are at increased risk of complications and adverse pregnancy outcomes. This can have a significant psychosocial and economic impact on women and the families requiring emotional and psychological support. The role of a family physician can be crucial in alleviating such emotional burden and improving the quality of life in these women