Abant Tip Dergisi

Olgu Sunumu / Cilt 6 Sayı 2 Yıl 2017

Abant Medical Journal

Case Report / Volume 6 Issue 2 Year 2017

İnterstisyal Dış Gebelik Olgusunun Sistemik Metotreksat ile Başarılı Bir Şekilde Tedavisi

Case report of a Successful Treatment of Interstitial Pregnancy with Systemic Methotrexate

Görker Sel¹, Mehmet İbrahim Harma², Müge Harma², Aykut Barut², İlker İnan Arıkan²

¹Bartın Devlet Hastanesi, Kadın Doğum, Bartın

²Bülent Ecevit Üniversitesi, Kadın Hastalıkları ve Doğum Ana Bilim Dalı, Zonguldak



Özet

Ektopik gebelik ilk trimesterde morbidite ve mortalitenin en sık nedenidir. İnterstisyal gebelik ektopik gebeliğin en nadir formlarından olup tüm ektopik gebeliklerin %2-4'ünü oluşturmaktadır. Bu yazımızda girişime gerek kalmadan sistemik Metotreksat ile başarılı şekilde tedavi edilmiş interstisyal gebelik olgusunu tartıştık. Seri β-hCG ölçümlerinde yeterli regresyon izlendi ve operasyona ihtiyaç kalmadı. Klinik deneyimimize göre hemodinamik olarak stabil, batında ve pelviste ağrısı olmayan interstisyal gebeliği olan hastalarda sistemik MTX tedavisi seri β-hCG ölçümleri ile izlem yapılarak uygulanması cerrahiye gereksinimi azaltmakta ve de böylece morbidite ve mortaliteye de olumlu yönde katkıda bulunmaktadır.

Anahtar Kelimeler: Dış gebelik, interstisyal gebelik, Metotreksat

INTRODUCTION

Ectopic pregnancy is the most common cause of morbidity and mortality in the first trimester (1). Interstitial pregnancy is one of the rarest form of ectopic pregnancies that constitutes of 2-4% of ectopic pregnancies (2). Mortality rate is seven fold higher than other forms of ectopic pregnancies that corresponding to 2% (3).

The terms of interstitial and cornual pregnancy are used as synonyms by some authors. However also the term "cornual pregnancy" is used as gestational sac located in the cornua of bicornuate or septate uterus (4, 5).

We used the term "interstitial pregnancy" as the gestational sac located in the myometrium of uterus.

In interstitial pregnancy, since gestational sac is surrounded by myometrium, symptoms present late. In case of rupture, advanced vasculaturity

Abstract

Ectopic pregnancy is the most common cause of morbidity and mortality in the first trimester of pregnancy. Interstitial pregnancy is one of the rarest form of ectopic pregnancies that constitutes of 2-4% of ectopic pregnancies. In this paper, we discussed the case of the interstitial pregnancy that successfully treated with systemic Methotrexate without requiring operation. Serial $\beta\text{-hCG}$ were regressed without any need to further manipulations including operation. According to our clinical experience, in cases of interstitial pregnancies that hemodynamically stabilized and not having severe abdominal nor pelvic pain, systemic MTX treatment could be applied under serial USG and $\beta\text{-hCG}$ follow-ups, that contribute low morbidity and mortality rates and lesser requirement to surgical approach

Keywords: Ectopic pregnancy, interstitial pregnancy, Methotrexate

may lead to catastrophic hemorrhage. Conventional treatment modalities are hysterectomy and cornual resection (6).

In this paper, we discussed the case of the interstitial pregnancy that successfully treated with systemic Methotrexate (MTX) without requiring operation.

CASE REPORT

Gravida 4, parity 2, living 2, abortus 1; 39 year old pregnant attended to emergency service with the complaint of vaginal hemorrhage, amount of 2-3 peds. She was 9-weeked pregnant according to her last menstrual period. β-hCG was 2541. The transvaginal ultrasound revealed 32.6 mm gestational sac that situated in the myometrium of uterine fundus. Fetal heart activation was not revealed. Endometrial thickness was measured as 7 mm. She did not have abdominal and pelvic pain. She did not have the risk factors for interstitial pregnancy

such as history of ectopic pregnancy, cesarean, in vitro fertilization or pelvic surgery.

The patient was internalized for β -hCG follow-up and systemic MTX treatment. Intramuscular 50 mg/m2 MTX was administered at first and fourth days of treatment. Follow-up was done with serial β -hCG and ultrasound measurements as shown on Table 1.

Table 1. Serial β-hCG values

Date	β-hCG
19 07 2012	2541
21 07 2012	968
27 07 2012	603
28 07 2012	513
30 07 2012	348
10 08 2012	50
30 08 2012	<1.0

At the end of seventh day transvaginal ultrasound revealed 10 mm ectopic mass localized in the myometrium of uterine fundus. Her complaints and serial β -hCG were regressed without any need to further manipulations including operation.

DISCUSSION

Detecting interstitial pregnancy is more difficult than revealing other ectopic pregnancy types, since the gestational sac, located in the myometrium, is isolated from other pelvic organs, so it presents itself as grave hemorrhage leading to hypovolemic shock resulting from rupture of uterus rather than localized pelvic pain as seen in other types.

By the help of expansive use of sensitive β -hCG and TV USG, it is getting easier to diagnose interstitial pregnancy before facing to its complications. Hence, it makes possible to treat interstitial ectopic pregnancy without operation, with sole MTX medication.

In TV-USG, incomplete or asymmetrical myometrium surrounding eccentric located gestational sac sign is a unique diagnostic finding for interstitial pregnancy (7).

Treatment of interstitial pregnancy constitutes of wide range and variety of medical treatment to surgical operations such as cornual resection. Also injection of MTX, potassium chloride to the sac with laparoscopy and hysterescopy guided with USG is an alternative method in treatment of interstitial pregnancy (8).

Systemic MTX medication is widely used in the treatment of ectopic pregnancies, on the other hand in the literature on interstitial pregnancy there is not enough experience on the usage of systemic MTX.

Dilbaz et al. presented a review that conserving three successfully treated cases with single dose of 50 mg/m2 systemic MTX, which was represented as an alternative treatment to surgical resection (9).

Another example for systemic MTX treatment in interstitial pregnancy was represented by Balsak et al. with the dose of 50 mg/m2 applied once a week for two weeks (10).

As introduced above in our case we applied two doses of 50 mg/m2 MTX in the treatment of first and fourth days, which successfully managed and regression of the sac and β -hCG values were obtained.

In conclusion according our knowledge and clinical experience, in the cases of interstitial pregnancies that hemodynamically stabilized and not having severe abdominal nor pelvic pain, systemic MTX treatment could be applied under serial USG and β -hCG follow-ups, that contribute low morbidity and mortality rates and lesser requirement to surgical approach.

REFERENCES

1. Anon, Ectopic pregnancies: United States, 1990-

- 1992.MMWR Morb Mortal Wkly Rep 1995;44:46 48.
- Lau S, Tulandi T. Conservative medical and surgical management of interstitial ectopic pregnancy. Fertil Steril 1999;72:207-15.
- Damario, M. A.; Rock, J. A. (2003). "Ectopic Pregnancy". In Rock, J. A.; Jones, H. W. III. Te Linde's Operative Gynecology (9th ed.). Philadelphia: Lippincott Williams & Wilkins. pp. 507–536.
- 4. Kerr LM, Anderson DF. Angular pregnancy: A clinical entity. Br Med J 1934; 1: 1113-4
- Bond AL, Grifo JA, Chervenak FA. Term interstitial pregnancy with uterine torsion: sonographic, pathologic, and clinical findings. Obstet Gynecol 1989; 73: 857-9
- Stewart EA, Yeh J. The fallopian tubes and ectopic pregnancy. In: Ryan KJ, Berkowitz RS, Barbieri RL, editors. Kistner's gynecology. 6th ed. St. Louis: Mosby-Year Book; 1995. p. 166-86.
- Maliha WE, Gonella P, Degnan EJ. Ruptured interstitial pregnancy presenting as an intrauterine pregnancy by ultrasound. Ann Emerg Med 1991; 20: 910-2
- Karsdorp VHM, Van der Veen F, Boer-Meisel ME, Kenemans P. Successful treatment with methotrexate of five interstiatial pregnancies. Hum Reprod 1992; 7:1164-9
- Dilbaz S, Katas B, Demir B, Dilbaz B. Treating cornual pregnancy with a single methotrexate injection: a report of 3 cases. J Reprod Med 2005; 50: 141-4
- Deniz Balsak, Murat İnal, Yusuf Yıldırım, R. Soner Öner, Şivekar Tınar. Rüptüre Olmamış Kornual Gebeliğin İntravenöz Methotrexate İle Başarılı Tedavisi: Olgu Sunumu. İnönü Üniversitesi Tıp Fakültesi Dergisi 14(1) 65-67 (2007)