

EKTOPIK GEBELİK

Metin ŞENTÜRK¹

GİRİŞ

Ektopik gebelik döllenmiş yumurtanın uterin kavite dışında başka yere bir yere yerleşmesidir. Birinci trimester gebeliklerin %1 ile %2'sini oluşturur ve bu küçük orana rağmen, gebeliğe bağlı tüm ölümlerin %6'sını oluşturur. Birinci trimester anne ölümünün en sık nedenidir. (1,2). Buna ek olarak, dış gebeliği takiben başarılı bir gebelik şansı azalır. Neyse ki, idrar ve serum insan koryonik gonadotropini (β -hCG) ölçümleri ve transvajinal sonografi erken tanıyı olanaklı kılmaktadır. Tüm ektopik gebeliklerin yaklaşık %96'sı fallop tüplerinde yerleşir. Geri kalan tutulma en sıktan en aza doğru servikal, intersitisyel, sezaryen skarı, ovarian ve abdominal gruplarıdır.

RİSK FAKTÖRLERİ

Ektopik gebeliğin en önemli sebebi enfeksiyon, cerrahi, konjenital anomali ya da tümörlere bağlı olarak normal tubal anatomisinin bozulmasıdır. Başlıca risk faktörlerini sıralayacak olursak;

1. Daha önce ektopik gebelik öyküsü
2. Pelvik enflamatuvar hastalık
3. İnfertilite ve buna bağlı gruplar
 - a. In vitro fertilizasyon (İVF)

- b. Tubal rekonstrüktif cerrahi
 - c. Diğer asiste reproduktif yöntemleri
4. Kontraseptif yöntemler
 - a. Sterilizasyon
 - b. İntrauterin araç (RIA)
 - c. Kombine oral kontraseptifler
 - d. Sadece progesterin içeren oral kontraseptifler
 5. Diğer faktörler
 - a. Sigara
 - b. İn utero dietilstilbestrol (DES) maruziyeti
 - c. Vajinal duş
 - d. İleri yaş

TUBAL GEBELİK

Sınıflandırma

Dış gebeliklerin yaklaşık %96'sı fallop tüplerinin farklı kısımlarına implante olur ve fimbriyal, ampuller, istmik veya interstisyel tubal gebeliğe neden olur (Şekil 1). Gösterildiği gibi, en yaygın yerleşim yeri ampulladır ve bunu istmus izler. Kalan %5 tubal olmayan dış gebelikler, over, periton boşluğuna ya da serviks veya geçirilmiş sezaryen skarına implante olur. Bazen, çoğul gebeliklerden biri intrauterin yerleşirken, eş

¹ Op. Dr. Metin ŞENTÜRK, Kastamonu Eğitim ve Araştırma Hastanesi Kadın Hastalıkları ve Doğum Bölümü metin.senturk@me.com

**KAYNAKLAR**

1. Berg CJ, Callaghan WM, Syverson C, et al: Pregnancy-related mortality in the United States, 1998-2005. *Obstet Gynecol* 116:1302, 2010
2. Sulberg DB, Cain LR, Dailquist I, et al: Ectopic pregnancy rates in the Medicaid population. *Am J Obstet Gynecol* 208(4):274.e1, 2013
3. Mukul LV, Teal SB: Current management of ectopic pregnancy. *Obstet Gynecol Clin North Am* 34:403, 2007
4. Eze IN, Obuna JA, Ejikeme BN: Bilateral tubal ectopic pregnancies: report of two cases. *Ann Afr Med* 11(2):112, 2012
5. Svisky R, Maymon R, Vaknin Z, et al: Twin tubal pregnancy: a rising complication: Preventing ruptured ectopic pregnancy? *Fertil Steril* 94(5):1910.e13, 2010
6. Ankum WM, Mol BWJ, Van der Veen F, et al: Risk factors for ectopic pregnancy: a meta-analysis. *Fertil Steril* 65:1093, 1996
7. Skjeldestad FE, Hadgu A, Eriksson N: Epidemiology of repeat ectopic pregnancy: a population-based prospective cohort study. *Obstet Gynecol* 91:129, 1998
8. Westrom L, Joesoef R, Reynolds G, et al: Pelvic inflammatory disease and fertility: a cohort study of 1,844 women with laparoscopically verified disease and 657 control women with normal laparoscopic results. *Sex Transm Dis* 19(4):185, 1992
9. Hoover RN, Hyer M, Pfeiffer RM, et al: Adverse health outcomes in women exposed in utero to diethylstilbestrol. *N Engl J Med* 365(14):1304, 2011
10. Clayton HB, Schieve LA, Peterson HB, et al: Ectopic pregnancy risk with assisted reproductive technology procedures. *Obstet Gynecol* 107(3):595, 2006
11. Waylen AL, Metwally M, Jones GL, et al: Effects of cigarette smoking upon clinical outcomes of assisted reproduction: a meta-analysis. *Hum Reprod Update* 15:31, 2009
12. Furlong LA: Ectopic pregnancy risk when contraception fails. A review. *J Reprod Med* 47(11):881, 2002
13. Kalinski MA, Guss DA: Hemorrhagic shock from a ruptured ectopic pregnancy in a patient with a negative urine pregnancy test result. *Ann Emerg Med* 40:102, 2002
14. Barnhart K, Mennuti MT, Benjamin I, et al: Prompt diagnosis of ectopic pregnancy in an emergency department setting. *Obstet Gynecol* 84:1010, 1994
15. Connolly A, Ryan DH, Stuebe AM, et al: Reevaluation of discriminatory and threshold levels for serum B-hCG in early pregnancy. *Obstet Gynecol* 121(1):65, 2013
16. Stovall TG, Ling FW, Carson SA, et al: Serum progesterone and uterine curet-differential diagnosis of ectopic pregnancy. *Fertil Steril* 57:456, 1992b
17. Lipscomb GH, McCord ML, Stovall TG, et al: Predictors of success of methotrexate treatment in women with tubal ectopic pregnancies. *N Engl J Med* 341:1974, 1999a
18. Pisarska MD, Carson SA, Buster JE: Ectopic pregnancy. *Lancet* 351:1115, 1998
19. Mol BWJ, Lijmer JG, Ankum WM, et al: The accuracy of single serum progesterone measurement in the diagnosis of ectopic pregnancy: a meta-analysis. *Hum Reprod* 13:3220, 1998
20. American College of Obstetricians and Gynecologists: Medical management of ectopic pregnancy. Practice Bulletin No. 94, June 2008, Reaffirmed 2012
21. Perkins SL, Al-Ramahi M, Claman P: Comparison of serum progesterone as an indicator of pregnancy non-viability in spontaneously pregnant emergency room and infertility clinic patient populations. *Fertil Steril* 73:499, 2000
22. Hammoud AO, Hammoud I, Bujald E, et al: The role of sonographic endometrial patterns and endometrial thickness in the differential diagnosis of ectopic pregnancy. *Am J Obstet Gynecol* 192:1370, 2005
23. Hill LM, Kislak S, Martin JG: Transvaginal sonographic detection of the pseudogestational sac associated with ectopic pregnancy. *Obstet Gynecol* 75(6):986, 1990
24. Nyberg DA, Mack LA, Laing FC, et al: Distinguishing normal from abnormal gestational sac growth in early pregnancy. *J Ultrasound Med* 6(1):23, 1987
25. Ackerman TE, Levi CS, Lyons EA, et al: Decidual cyst: endovaginal sonographic sign of ectopic pregnancy. *Radiology* 189(3):727, 1993b
26. Branney SW, Wolfe RE, Moore EE, et al: Quantitative sensitivity of ultrasound detecting free intraperitoneal fluid. *J Trauma* 40(6):1052, 1995
27. Rodgeron JD, Heegaard WG, Plummer D, et al: Emergency department right upper quadrant ultrasound is associated with a reduced time to diagnosis and treatment of ruptured ectopic pregnancies. *Acad Emerg Med* 8(4):331, 2001
28. Rose JS: Ultrasound in abdominal trauma. *Emerg Med Clin North Am* 22(3):581, 2004
29. Glezerman M, Press F, Carpman M: Culdocentesis is an obsolete diagnostic tool in suspected ectopic pregnancy. *Arch Gynecol Obstet* 252:5, 1992
30. Vermesh M, Graczykowski JW, Sauer MV: Reevaluation of the role of culdocentesis in the management of ectopic pregnancy. *Am J Obstet Gynecol* 162:411, 1990
31. Stika CS: Methotrexate; the pharmacology behind medical treatment for ectopic pregnancy. *Clin Obstet Gynecol* 55(2):433, 2012
32. Kooi S, Kock HC: A review of the literature on non-surgical treatment in tubal pregnancy. *Obstet Gynecol Sure* 47:739, 1992
33. Lipscomb GH, Puckett KJ, Bran D, et al: Management of separation pain after single-dose methotrexate therapy for ectopic pregnancy. *Obstet Gynecol* 93:590, 1999b
34. Lipscomb GH, Bran ML, et al: Analysis hundred fifteen ectopic pregnancies treated single dose methotrexate. *Am J Obstet Gynecol* 178:1354, 1998
35. Al-Sunaidi M, Tulandi T: Surgical treatment of ectopic pregnancy. *Semin Reprod Med* 25(2):117, 2007
36. Lau S, Tulandi T: Medical and management of interstitial ectopic pregnancy. *72:207*
37. Tulandi T, Al-Jaroudi D: Interstitial pregnancy: results generated from the Society of Reproductive Surgeons. *Obstet Gynecol* 103:47, 2004
38. Timor-Tritsch IE, Monteagudo A, Matera C, et al: Sonographic evolution of cornual pregnancies treated



- without surgery. *Obstet Gynecol* 79(6):1044, 1992
39. Word L, Hoffman BL: Surgeries for benign gynecologic conditions. In Hoffman BL, Schorge JO, Schaffer JJ, et al (eds): *Williams Gynecology*, 2nd ed. New York, McGraw-Hill, 2012, p 1037
 40. Zuo X, Shen A, Chen M: Successful management of unruptured interstitial pregnancy in 17 consecutive cases by using laparoscopic surgery. *Aust N Z J Obstet Gynaecol* 52(4):387, 2012
 41. Jansen RP, Elliott PM: Angular intrauterine pregnancy. *Obstet Gynecol* 58(2):167, 1981
 42. Atrash HK, Friede A, Hogue CJ: Abdominal pregnancy in the United States
 43. Worley KC, Hnat MD, Cunningham FG: Advanced extrauterine pregnancy: diagnostic and therapeutic challenges. *Am J Obstet Gynecol* 198:297e1, 2008
 44. Zeck W, Kelters I, Winter R, et al: Lessons learned from four advanced abdominal pregnancies at an East African Health Center. *J Perinat Med* 35(4):278, 2007
 45. Costa SD, Presley J, Bastert G: Advanced abdominal pregnancy. *Obstet Gynecol Surv* 46:515, 1991
 46. Sherer DM, Dalloul M, Gorelick C, et al: Unusual maternal vasculature in the placental periphery leading to the diagnosis of abdominal pregnancy at 25 weeks' gestation. *J Clin Ultrasound* 35(5):268, 2007
 47. Bertrand G, Le Ray C, Simard-Emond L, et al: Imaging in the management of abdominal pregnancy: a case report and review of the literature. *J Obstet Gynaecol Can* 31(1):57, 2009
 48. Mittal SK, Singh N, Verma AK, et al: Fetal MRI in the pre-operative diagnosis and assessment of secondary abdominal pregnancy: a rare sequela of a previous caesarean section. *Diagn Interv Radiol* 18(5):496, 2012
 49. Gomez E, Vergara L, Weber C, et al: Successful expectant management of an abdominal pregnancy diagnosed at 14 weeks. *J Matern Fetal Neonatal Med* 21(12):917, 2008
 50. Varma R, Mascarenhas L, James D: Successful outcome of advanced abdominal pregnancy with exclusive omental insertion. *Ultrasound Obstet Gynecol* 12:192, 2003
 51. Stevens CA: Malformations and deformations in abdominal pregnancy *A Med Genet* 47:1189, 1993
 52. Seckin B, Turkcapar FA, Tarhan I, et al: Advanced intraligamentary pregnancy resulting in a live birth. *J Obstet Gynaecol* 31(3):260, 2011
 53. Spiegelberg O: Zur Casuistic der Ovarialschwangerschaft. *Arch Gynaecol* 13:73, 1878
 54. Ko PC, Lo LM, Hsich TT, et al: Twenty-one years of experience with ovarian ectopic pregnancy at one institution in Taiwan. *Int J Gynecol Obstet* 119(2):154, 2012
 55. Pagidas K, Frishman GN: Nonsurgical management of primary ovarian pregnancy with transvaginal ultrasound-guided local administration of methotrexate. *J Minim Invasive Gynecol* 20(2) 252, 2013
 56. Ginsburg ES, Frates MC, Rein MS, et al: Early diagnosis and treatment of cervical pregnancy in an vitro fertilization program. *Fertil Steril* 61:966, 1994
 57. Jeng CJ, Ko ML, Shen J: Transvaginal ultrasound-guided treatment of cervical pregnancy. *Obstet Gynecol* 109:1076, 2007
 58. Ushakov FB, Elchalal U, Aceman PJ, et al: Cervical pregnancy: past and future. *Obstet Gynecol Surv* 52:45, 1997
 59. Kirk E, Condous G, Haider Z, et al: The conservative management of cervical ectopic pregnancies. *Ultrasound Obstet Gynecol* 27(4):430, 2006
 60. Kung FT, Chang SY, Tsai YC, et al: Subsequent reproduction and obstetric outcome after methotrexate treatment of cervical pregnancy; a review of original literature and international collaborative follow-up. *Hum Reprod* 12:591, 1997
 61. Verma U, Goharkhay N: Conservative management of cervical ectopic pregnancy. *Fertil Steril* 91(3):671, 2009
 62. Ash A, Smith A, Maxwell D: Caesarean scar pregnancy. *BJOG* 114:253.
 63. Rotas MA, Haberman S, Levгур M: Cesarean scar ectopic pregnancies. *Obstet Gynecol* 107:1373, 2006
 64. Timor-Tritsch IE, Monteagudo A, Santos R, et al: The diagnosis, treatment, and follow-up of cesarean scar pregnancy. *Am J Obstet Gynecol* 207(1):44. e1, 2012b
 65. Teng HC, Kumar G, Ramli NM: A viable secondary intra-abdominal pregnancy resulting from rupture of uterine scar: role of MRI. *Br J Radiol* 80:e134, 2007
 66. Shen L, Tan A, Zhu H: Bilateral uterine artery chemoembolization with methotrexate for cesarean scar pregnancy. *Am J Obstet Gynecol* 207(5):386.e1, 2012
 67. Timor-Tritsch IE, Monteagudo A: Unforeseen consequences of the increasing rate of cesarean deliveries: early placenta accreta and cesarean scar pregnancy. A review. *Am J Obstet Gynecol* 207(1):14, 2012a
 68. Yang XY, Yu H, Li KM, et al: Uterine artery embolisation combined with local methotrexate for treatment of caesarean scar pregnancy. *BJOG* 117(8):990, 2010
 69. Michener C, Dickinson JE: Caesarean scar ectopic pregnancy: a single centre case series. *Aust N Z J Obstet Gynaecol* 49(5):451, 2009
 70. Seow KM, Huang LW, Lin YH: Cesarean scar pregnancy: issues in management. *Ultrasound Obstet Gynecol* 23(3):247, 2004
 71. Wang Z, Le A, Shan L, et al: Assessment of transvaginal hysterotomy combined with medication for cesarean scar ectopic pregnancy. *J Minim Invasive Gynecol* 19(5):639, 2012
 72. Yang Q, Piao S, Wang G, et al: Hysteroscopic surgery of ectopic pregnancy in the cesarean section scar. *J Minim Invasive Gynecol* 16(4):432, 2009
 73. Chin PS, Wee HY, Chern BS: Laparoscopic management of primary hepatic pregnancy. *Aust N Z J Obstet Gynaecol* 50(1):95, 2010
 74. Chopra S, Keepanasseril A, Suri V, et al: Primary omental pregnancy: case report and review of literature. *Arch Gynecol Obstet* 279(4):441, 2009
 75. Gang G, Yudong Y, Zhang G: Successful laparoscopic management of early splenic pregnancy: case report and review of literature. *J Minim Invasive Gynecol* 17(6):794, 2010
 76. Martinez-Varea A, Hidalgo-Mora JJ, Payá V, et al: Retroperitoneal ectopic pregnancy after intrauterine insemination. *Fertil Steril* 95(7): 2433.e1, 2011