









VIDEO ARTICLE

Hysteroscopic Intact Removal of an Angular Pregnancy with a **5Fr Electrode**

Antonio Mollo, MD, Antonio Raffone, MD, Francesco Paolo Improda, MD, Antonio Travaglino, MD, Gabriele Saccone, MD, Pierluigi Giampaolino, MD, Fulvio Zullo, MD, and Giuseppe De Placido, MD

From the Department of Neuroscience, Reproductive Sciences and Dentistry, School of Medicine, University Federico II, Naples, Italy (Drs. Mollo, Raffone, Improda, Saccone, Zullo, and De Placido), Department of Advanced Biomedical Sciences, School of Medicine, University Federico II, Naples, Italy (Dr. Travaglino), and Department of Public Health, University Federico II, Naples, Italy (Dr. Giampaolino).

ABSTRACT Study Objective: Angular pregnancy is a rare and life-threatening condition in which the embryo is implanted in the lateral angle of the uterine cavity, medial to the uterotubal junction and round ligament. Angular pregnancy is associated with a high risk of uterine rupture of about 23% [1]. No consensus has been achieved regarding the diagnostic and therapeutic approach of angular pregnancy [2]. Thus, the aim of this study was to report a case of hysteroscopic treatment of an angular pregnancy in a 34-year-old women.

Design: Step-by-step video presentation of the surgical treatment (Canadian Task Force classification III).

Setting: Department of Neuroscience, Reproductive Sciences and Dentistry, School of Medicine, University of Naples Federico II, Naples, Italy.

Patient: A 34-year-old woman. Written informed consent was obtained from the patient.

Intervention: Hysteroscopy.

Measurements and Main Results: A 34-year-old woman was admitted to our Department with pelvic pain at 6 weeks of gestation. β-Human chorionic gonadotropin (β-hCG) was 5331 mIU/mL. The transvaginal ultrasound showed a gestational sac of 15 × 11 mm in the left uterine angle of an embryo without cardiac activity. The woman opted for a conservative approach with multiple-dose methotrexate [3]. Five days later the β-hCG increased to 7589 mIU/mL with no regression of pregnancy at the transvaginal ultrasound. Therefore, a surgical approach was offered to the patient [4,5]. Laparoscopy showed normal salpinges, whereas hysteroscopy identified the gestational sac in the left uterine angle. A 5Fr bipolar electrode was used to open the gestational capsular decidua. The chorionic villi were progressively separated from the implantation site. Using grasping forceps we removed the specimen for histologic examination. Histologic examination confirmed the diagnosis of angular pregnancy. On the second postoperative day β-hCG was 1131 mIU/mL, and the patient was discharged the day after. At the 1-month follow-up visit, β -hCG and transvaginal ultrasound were negative for pregnancy. The office hysteroscopy showed an empty uterine cavity at 3-months' follow-up.

Conclusion: Our case shows that hysteroscopy may be used as a diagnostic and therapeutic tool for angular pregnancy, providing a unique image of the intact removal of the gestational sac. Journal of Minimally Invasive Gynecology (2019) 26, 32-33 © 2018 AAGL. All rights reserved.

Keywords:

Cornual pregnancy; Ectopic pregnancy; Gestational sac; Hysteroscopy; Minimally invasive treatment

The authors declare that they have no conflict of interest. Institutional review board approval was not required for this study.

Corresponding author: Antonio Raffone, MD, Department of Neuroscience, Reproductive Sciences and Dentistry, School of Medicine, University of Naples Federico II, Via Sergio Pansini, 5, Naples, 80131, Italy.

E-mail: anton.raffone@libero.it

Submitted February 12, 2018. Accepted for publication March 16, 2018. Available at www.sciencedirect.com and www.jmig.org



Supplementary Data

Supplementary data related to this article can be found at https://doi.org/10.1016/j.jmig.2018.03.015.

References

- Jansen RP, Elliott PM. Angular intrauterine pregnancy. Obstet Gynecol. 1981;58:167–175.
- Larraín D, Marengo F, Bourdel N, et al. Proximal ectopic pregnancy: a descriptive general population-based study and results of different management options in 86 cases. Fertil Steril. 2011;95:867–871.
- Yang C, Cai J, Geng Y, Gao Y. Multiple-dose and double-dose versus single-dose administration of methotrexate for the treatment of ectopic pregnancy: a systematic review and meta-analysis. *Reprod Biomed Online*. 2017;34:383–391.
- Hajenius PJ, Mol F, Mol BW, Bossuyt PM, Ankum WM, van der Veen F. Interventions for tubal ectopic pregnancy. *Cochrane Database Syst Rev*. 2007;(2):CD00032.
- Mollo A, Alviggi C, Conforti A, Insabato L, De Placido G. Intact removal
 of spontaneous twin ectopic caesarean scar pregnancy by office hysteroscopy: case report and literature review. Reprod Biomed Online.
 2014;29:530–533.