Uterine artery coil embolization in pregnancy complications

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Disclosure

Speaker name:
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I have the following potential conflicts of interest to report:

- Consulting
- Employment in industry
- Stockholder of a healthcare company
- Owner of a healthcare company
- Other(s)

I do not have any potential conflict of interest
Cervical ectopic pregnancy

Cervical and incisional ectopic pregnancy are rare pregnancy complications but carries the risk of life-threatening hemorrhage.
Cervical Ectopic Pregnancy

- Rare, less than 1% of all ectopic gestations
- Have an estimated incidence of one in 2500 to one in 18,000 pregnancies.
- Passage of a blastocyst through the uterine cavity and its subsequent implantation and growth within the mucosa that lines the endocervical canal
- Dx frequently delayed and is often made intraoperatively in the presence of extensive hemorrhage, necessitating an emergency hysterectomy in about 50% of cases
Patients and methods

- 21 patients with cervical and incisional pregnancies underwent bilateral selective uterine artery coil embolization
- Age range 23-34 years, mean age 28.5 yr
- All patients were under methotrexate therapy.
- Patients were followed at least for 3 months.
Technique

• Bilateral retrograde femoral puncture and crossover approach
• Selective contralateral uterine artery catheterization
• Coil embolization of uterine artery by pushable coils
Results

• **Successful hemostasis in** 13 cases and no major complication related to uterine artery embolization was detected.

• **8 other cases**, elevated beta-human chorionic gonadotropin levels persisted, with a new episode of vaginal bleeding; the bleeding resolved after curettage in 7 patients.

• Significant vaginal hemorrhage occurred 8 weeks later in **only one patient** which required hysterectomy.

• **Uterus** was preserved in 20 patients.
Conclusion

• Bilateral Uterine artery embolization is effective in treating and preventing vaginal hemorrhage associated with cervical and incisional ectopic pregnancy while allowing uterine preservation
Thanks

Perspolis, Iran
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