UNIT 2: OBSTETRICS SECTION B: ABNORMAL OBSTETRICS

Educational Topic 16: Spontaneous Abortion

Rationale: Spontaneous abortion is a common and often distressing complication of early pregnancy. An accurate and prompt diagnosis is warranted.

Intended Learning Outcomes:

A student should be able to:

- Develop a differential diagnosis for first trimester vaginal bleeding
- Differentiate the types of spontaneous abortion (missed, complete, incomplete, threatened, septic)
- List the causes of spontaneous abortion
- List the complications of spontaneous abortion
- Discuss treatment options for spontaneous abortion

TEACHING CASE

CASE: A 32 year-old G1 woman presents with a positive urine pregnancy test at 9 weeks 4 days from start of last normal menstrual period. She reports 5 days of moderate painless vaginal bleeding and chills. Physical examination shows a temperature of 101.5° orally, pulse 95, and BP 95/60 with normal bowel sounds, no rebound, and 5/10 suprapubic tenderness. Pelvic exam shows moderate amount of blood in vagina with a closed 5/10 tender cervix and an 8/10 tender uterus. No adnexal masses or tenderness.

Lab data shows a serum β - β -hCG level of 6,500 mIU/ml and ultrasound shows a gestational sac in the uterus with no fetus seen. The ovaries and tubes appear normal.

COMPETENCY-BASED DISCUSSION & KEY TEACHING POINTS: Competencies addressed:

- Patient Care
- Medical Knowledge

- 1. What are the different types of spontaneous abortion?
- 2. Which type or types is most likely in this case and why?
- 3. Why does this patient have a fever and tenderness and what needs to be done about it?
- 4. If this patient was 6 weeks pregnant with no fever or tenderness, had an β -hCG level of 700 mIU/ml and a negative ultrasound with no evidence of a gestational sac, what would be your differential diagnosis if she had a small amount of bleeding and no fever or tenderness?
- 5. How would you make the diagnosis in question 4?
- 6. For a patient with any type of abortion, what blood test is essential to do?
- 7. What are the causes of spontaneous abortion?
- 8. What are treatment options for spontaneous abortion?

REFERENCES

Beckman CRB, et al. Obstetrics and Gynecology. 7th ed. Philadelphia: Lippincott, Williams & Wilkins, 2013.

Hacker NF, Moore JG, et al. Essentials of Obstetrics and Gynecology. 5th ed. Philadelphia: Saunders, 2010.

Copyright © 2014 by Association of Professors of Gynecology and Obstetrics (APGO). For permissions: <u>apgoadmin@apgo.org</u>