

A 25-year-old female reports that she missed her period. She reports fatigue and she is feeling “different”. She picked up a home pregnancy test at a drug store. The home pregnancy test detects which of the following hormones?

- A. Human chorionic gonadotropin
- B. Estradiol
- C. Follicle-stimulating hormone
- D. Oxytocin

	Pregnancy tests check your pee or blood for a hormone called human chorionic gonadotropin (hCG). Your body makes this hormone after a fertilized egg attaches to the wall of your uterus. This usually happens about 6 days after fertilization. Levels of hCG rise quickly, doubling every 2 to 3 days.
	Elevated follicle-stimulating hormone (FSH) levels are measured to confirm menopause. When a woman's FSH blood level is consistently elevated to 30 mIU/mL or higher, and she has not had a menstrual period for a year, it is generally accepted that she has reached menopause.
	Women with PCOS often have high levels of LH secretion. High levels of LH contribute to the high levels of androgens (male hormones such as testosterone), and this along with low levels of FSH contributes to poor egg development and an inability to ovulate.

Which of the following disorders is a set of symptoms due to elevated androgens in females and associated with irregular menstrual periods, excess body and facial hair, acne, pelvic pain, infertility, obesity, and type 2 diabetes?

- A. Hypothyroidism
- B. Ovarian tumors
- C. Polycystic ovarian syndrome
- D. Cushing syndrome

Sildenafil (Viagra®) acts by blocking phosphodiesterase 5 (PDE-5), an enzyme that promotes breakdown of cGMP, which regulates blood flow in the penis. Which of the following is the side effect of Sildenafil?

- A. Tachycardia
- B. Pulmonary hypertension
- C. Hypertension
- D. Hypotension

The vasodilating action of sildenafil affects both the arteries and the veins. Reported side effects in the normal healthy population are usually associated with vasodilation. These include:

headaches (16%)	flushing (10%)
rhinitis (4%)	dizziness (2%)
hypotension (<2%)	postural hypotension (<2%)

A 67-year-old male is taking a drug for his erectile dysfunction. What is the side effect of the drug?

- A. Hypotension
- B. Hypertension

Sildenafil (Viagra®) and _____ both cause the muscles that control the size of blood vessels to relax. When these muscles relax, the vessels enlarge in diameter and, as a result, blood pressure drops. When Sildenafil and _____ are taken together, the effects are greater than when either one is used alone.

- A. Midodrine
- B. Nitrates