

## Cellular Pathology

PS09 Chapter 2: Cellular Responses to Stress and Toxic Insults: Adaptation, Injury, and Death

PS08 Chapter 1: Cellular Responses to Stress and Toxic Insults

BP9 and SP8 Chapter 1: Cell Injury, Cell Death, and Adaptations

1. A 77-year-old woman has chronic renal failure. Her serum urea nitrogen is 40 mg/dL. She is given a diuretic medication and loses 2 kg (4.4 lb). She reduces the protein in her diet and her serum urea nitrogen decreases to 30 mg/dL. Which of the following terms best describes cellular responses to disease and treatment in this woman?

- A. Adaptation *atrophy*
- B. Apoptosis
- C. Necroptosis
- D. Irreversible injury
- E. Metabolic derangement

2. A 53-year-old woman with no prior illnesses has a routine checkup by her physician. On examination she has a blood pressure of 150/95 mm Hg. If her hypertension remains untreated for years, which of the following cellular alterations would most likely be seen in her myocardium?

- A. Apoptosis
- B. Dysplasia
- C. Fatty change
- D. Hemosiderosis
- E. Hyperplasia
- F. Hypertrophy
- G. Metaplasia

3. A 22-year-old woman becomes pregnant. A fetal ultrasound examination at 13 weeks' gestation shows her uterus measures  $7 \times 4 \times 3$  cm. At delivery of a term infant, her uterus measures  $34 \times 18 \times 12$  cm. Which of the following cellular processes has contributed most to the increase in her uterine size?

- A. Endometrial glandular hyperplasia
- B. Myometrial fibroblast proliferation
- C. Endometrial stromal hypertrophy
- D. Myometrial smooth muscle hypertrophy
- E. Vascular endothelial hyperplasia

4. A 30-year-old woman breastfeeds her infant. On examination, her breasts are slightly increased in size. Milk can be

expressed from both nipples. Which of the following processes that occurred in her breasts during pregnancy enables her to breastfeed the infant?

- A. Ductal metaplasia<sup>4</sup>
- B. Epithelial dysplasia<sup>4</sup>
- C. Intracellular lipid deposition
- D. Lobular hyperplasia<sup>4</sup>
- E. Stromal hypertrophy

5. A 16-year-old boy sustained blunt trauma to his abdomen when he struck a bridge abutment at high speed while driving a motor vehicle. Peritoneal lavage shows a hemoperitoneum, and at laparotomy, a small portion of the left lobe of the injured liver is removed. Two months later, a CT scan of the abdomen shows that the liver has nearly regained its size before the injury. Which of the following processes best explains this CT scan finding?

- A. Apoptosis
- B. Dysplasia
- C. Hyperplasia
- D. Hydropic change
- E. Steatosis

6. A 71-year-old man has had difficulty with urination, including hesitancy and increased frequency, for the past 5 years. A digital rectal examination reveals that his prostate gland is palpably enlarged to twice normal size. A transurethral resection of the prostate is performed, and the microscopic appearance of the prostate "chips" obtained is that of nodules of glands with intervening stroma. Which of the following pathologic processes has most likely occurred in his prostate?

- A. Apoptosis<sup>4</sup>
- B. Dysplasia<sup>4</sup>
- C. Fatty change<sup>4</sup>
- D. Hyperplasia
- E. Hypertrophy
- F. Metaplasia<sup>4</sup>

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