

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 BP8 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 metaplasia⁴
- B. Epithelial dysplasia⁴
- C. Intracellular lipid deposition
- D. Lobular hyperplasia⁴
- 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. Apoptosis⁴
- B. Dysplasia⁴
- C. Fatty change⁴
- D. Hyperplasia
- E. Hypertrophy
- F. Metaplasia⁴

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M Tight



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Table of Contents Pathology Robbins Chapter 2 Information

1. Understanding the eBook Pathology Robbins Chapter 2 Information
 - The Rise of Digital Reading Pathology Robbins Chapter 2 Information
 - Advantages of eBooks Over Traditional Books
2. Identifying Pathology Robbins Chapter 2 Information
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pathology Robbins Chapter 2 Information
 - Personalized Recommendations
 - eBook Platform User Reviews and Ratings
 - eBook Platform Bestseller Lists

5. Accessing Pathology Robbins Chapter 2 Information Free and Paid eBooks
 - Pathology Robbins Chapter 2 Information Public Domain eBooks
 - Pathology Robbins Chapter 2 Information eBook Subscription Services
 - Pathology Robbins Chapter 2 Information Budget-Friendly Options
6. Navigating Pathology Robbins Chapter 2 Information eBook Formats
 - ePub, PDF, MOBI, and More
 - Pathology Robbins Chapter 2 Information Compatibility with Devices
 - Pathology Robbins Chapter 2 Information Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pathology Robbins Chapter 2 Information
 - Highlighting and Note-Taking Pathology Robbins Chapter 2 Information
 - Interactive Elements Pathology Robbins Chapter 2 Information
8. Staying Engaged with Pathology Robbins Chapter 2 Information
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pathology Robbins Chapter 2 Information
9. Balancing eBooks and Physical Books Pathology Robbins Chapter 2 Information
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pathology Robbins Chapter 2 Information
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Pathology Robbins Chapter 2 Information
 - Setting Reading Goals Pathology Robbins Chapter 2 Information
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pathology Robbins Chapter 2 Information
 - Fact-Checking eBook Content of Pathology Robbins Chapter 2 Information
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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