

Urinary System

Anatomy & Physiology of Urinary System

Overview

- As the body breaks down protein for energy, nitrogenous waste- urea, ammonia, and creatinine- is produced.
- The urinary system 1) forms urine, 2) **balances fluid and electrolytes**, 3) balances pH, 4) excretes waste products, 5) **regulates blood pressure**, 6) creates red blood cells (**erythropoiesis**) , and 7) activates vitamin D , elevating calcium.
- Vitamin D helps absorption of calcium. (**Calciferol**)



Overview

- Consists of two kidneys, two ureters, the bladder, and urethra.
- Kidneys:** removes waste, excess water, and electrolytes from the blood and concentrate them in the urine.
- Bladder:** collects and stores urine.
- Urethra:** transports urine from bladder to outside of the body.

Kidneys

- Lies parietal peritoneum, below diaphragm, each side of vertebral column; dark red, bean-shaped, 4-5 inch long, 1 inch thick; **right kidney lies slightly lower than left**; surrounded by adipose tissue; renal artery, renal vein, and ureter exit the kidney at the hilum; adrenal glands sit atop each kidney.

Gross Anatomic Structure

- The strong outer layer of connective tissue is the renal capsule. Beneath it is the renal cortex, containing 1.25 million renal tubules. **Next is the medulla (darker color)**. The medulla contains triangular pyramids; the narrow points are the papillae, which empties urine into the calyces. The calyces are cuplike extensions in renal pelvis. The renal pelvis is the upper end of the ureter.



Microscopic Structure (Nephron)

- Each kidney contains more than 1 million nephrons (a microscopic funnel with a long stem and two convoluted sections. **It filters the blood and processes urine by: 1) controlling body fluid levels by selectively removing or retaining water, 2) helps regulate pH of the blood, 3) removes toxic waste from the blood. It filters the entire blood supply approximately 60 times per day.**

Microscopic Structure (Nephron)

- The renal arteries enter each kidney at the hilum. Renal arteries continue branching inside the kidney until blood is delivered to the glomerulus by an afferent arteriole. The filtered blood leaves the

Human Anatomy Urinary System Study Guide Answers

Holly K. Stromberg



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Table of Contents Human Anatomy Urinary System Study Guide Answers

1. Understanding the eBook Human Anatomy Urinary System Study Guide Answers
 - The Rise of Digital Reading Human Anatomy Urinary System Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Human Anatomy Urinary System Study Guide Answers
 - 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 Human Anatomy Urinary System Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Human Anatomy Urinary System Study Guide Answers
 - Personalized Recommendations

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

- 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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