

## 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

# Urinary System Study Guide

**Arshad Iqbal**

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## **Table of Contents Urinary System Study Guide**

1. Understanding the eBook Urinary System Study Guide
  - The Rise of Digital Reading Urinary System Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Urinary System Study Guide
  - 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 Urinary System Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Urinary System Study Guide
  - Personalized Recommendations
  - Urinary System Study Guide User Reviews and Ratings
  - Urinary System Study Guide and Bestseller Lists
5. Accessing Urinary System Study Guide Free and Paid eBooks
  - Urinary System Study Guide Public Domain eBooks
  - Urinary System Study Guide eBook Subscription Services
  - Urinary System Study Guide Budget-Friendly Options

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- Urinary System Study Guide Compatibility with Devices
- Urinary System Study Guide Enhanced eBook Features

**7. Enhancing Your Reading Experience**

- Adjustable Fonts and Text Sizes of Urinary System Study Guide
- Highlighting and Note-Taking Urinary System Study Guide
- Interactive Elements Urinary System Study Guide

**8. Staying Engaged with Urinary System Study Guide**

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Urinary System Study Guide

**9. Balancing eBooks and Physical Books Urinary System Study Guide**

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Urinary System Study Guide

**10. Overcoming Reading Challenges**

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

**11. Cultivating a Reading Routine Urinary System Study Guide**

- Setting Reading Goals Urinary System Study Guide
- Carving Out Dedicated Reading Time

**12. Sourcing Reliable Information of Urinary System Study Guide**

- Fact-Checking eBook Content of Urinary System Study Guide
- 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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