

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

Anatomy Urinary System Study Guide Mastery Test

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Human Anatomy and Physiology John W. Hole, Jr., 1992-11 *Student Study Guide to Accompany Essentials Anatomy and Physiology* Jackie L. Butler, Shier, Ricki Lewis, Dr. Nancy Ann Sickles Corbett, 1999-06 *Essentials of Human Anatomy and Physiology* John W. Hole, Jr., Nancy Ann Sickles Corbett, 1997-07 *Fundamentals of Urine and Body Fluid Analysis - E-Book* Nancy A. Brunzel, 2022-05-07

Learn how to accurately analyze urine and body fluids with *Fundamentals of Urine and Body Fluid Analysis* 5th Edition. Known for its clear writing style, logical organization, and vivid full-color illustrations, this renowned text offers the perfect level and depth of information for understanding the fundamental principles of urine and body fluids frequently encountered in the clinical laboratory. This includes the collection and analysis of urine, fecal specimens, vaginal secretions, and other body fluids such as cerebrospinal, synovial, seminal, amniotic, pleural, pericardial, and peritoneal fluids. Author Nancy Brunzel also shares her extensive knowledge and expertise in the field as she highlights key information and walks you through essential techniques and procedures, showing you how to correlate data with your knowledge of basic anatomy and physiology in order to understand pathologic processes. Study questions and case studies in each chapter reinforce comprehension and application, with an answer key located in the back of the book. UNIQUE Table of crystal images based on shape serves as a single comprehensive guide to the identification of crystals in urine sediment. UNIQUE Image Gallery of Urine Sediment provides alternate views of sediment components to augment the numerous classic photomicrographs already present in the *Microscopic Examination of Urine* chapter. UNIQUE Quick Guides to urine and body fluid photomicrographs make it fast and easy to find a photo of a specific cell type or component of interest. UNIQUE Tables with high-quality polarizing microscopy photomicrographs demonstrate the differences in birefringent intensity of substances with and without a red compensator. The most complete collection of high-quality full-color images enables optimal identification of microscopic components in urine and other body fluids. NEW Fully updated content provides valuable information on the latest techniques and advances in the field. NEW Enhanced content, new tables, and new images facilitate the microscopic differentiation of monocytes, macrophages, and mesothelial cells in pleural, peritoneal, and pericardial fluids. NEW More than 250 photomicrographs of cells and other components in body fluid and urine sediment serve as a visual quick reference for identification during analysis. NEW Thumbprint images embedded in numerous tables enhance learning and serve as an invaluable resource when performing fluid analysis at the bench.

The Human Body in Health & Disease - Softcover 6 Kevin T. Patton, Gary A. Thibodeau, 2013-01-01. Rev. ed. of *The human body in health disease* Gary A. Thibodeau Kevin T. Patton 5th ed. c2010 **MA Review** Susan Perreira, 2021-11-01. The perfect review for certification exams. Certification means a professional edge, better job security, and more career advancement opportunities. Here is the only pocket-sized review guide for all of the Medical Assisting certification exams: CMA, AAMA, RMA, CMAS, NCMA, and CMAC. MAAC and MAC/AMCA. Content outlines encompass all areas of must-know information. An access code inside new printed

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