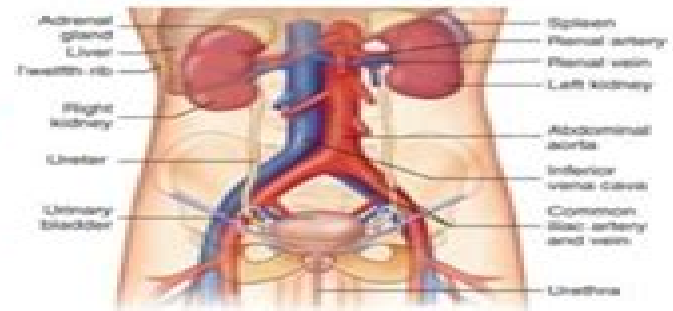


Urinary System

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

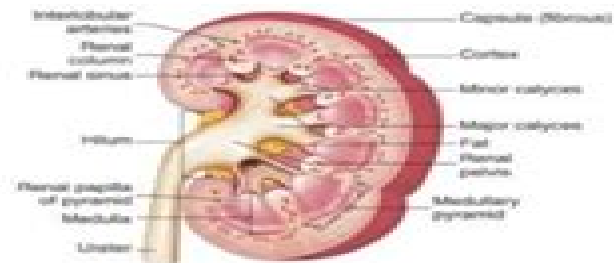
- Consists of two kidneys, two ureters, the bladder, and urethra.
- **Kidneys:** removes waste, excess water, and electrolytes from the blood and concentrate them in the urine.
- **Bladder:** collects and stores urine.
- **Urethra:** transports urine from bladder to outside of the body.

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

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WJ Hussar



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Psychopharmacology Bulletin ,1983 McGraw-Hill Dictionary of Biology Sybil P. Parker,1984 Acta Physiologica Scandinavica ,1980 Promotes communication among physicians in a wide range of medical and zoological disciplines It provides readers with original reports on all aspects of physiology medical chemistry and pharmacology **Whitaker's Book List** ,1987 Agrindex ,1991 **B.A.S.I.C.** ,1968 Index to Dental Literature ,1977 Beginning with 1962 references are not limited to material in the English language International Bibliography of Eating Disorders, 1977-1986 ,1987 Abstract A bibliography for clinical dietitians food and nutrition researchers and other health professionals provides 2543 technical references covering eating disorders grouped among 33 categories The categories range from behavioral biology body organ and system biology genetics and immunology to metabolism neoplasia pharmacology psychiatry public health and toxicology Each entry includes the title of the publication its authors literature citation and keywords Author and extensive keyword indices are appended **Biological Abstracts** Jacob Richard Schramm,1963 **Science Citation Index** ,1975 Vols for 1964 have guides and journal lists Quick Physiology Review: Human Urinary System E Staff, Learn and review on the go Use Quick Review Anatomy Physiology Study Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Easy to remember facts to help you perform better Perfect study notes for all health sciences premed medical and nursing students *Study Guide for Human Anatomy and Physiology* Evelyn Biluk,2012-06-28 This is a collection of multiple choice questions on the urinary system female reproductive system and male reproductive system Topics covered include an overview of the urinary system anatomy glomerular filtration tubular reabsorption tubular secretion production of dilute and concentrated urine kidney function evaluation urine transport urine storage urine elimination female anatomy female reproductive cycle birth control methods an overview of the male reproductive system spermatogenesis male reproductive tract semen external genitalia and hormones These questions are suitable for students enrolled in Human Anatomy and Physiology I or II or General Anatomy and Physiology *Revision Made Easy on Anatomy and Physiology of the Urinary System* Anthonia Jones,2023-09-23 Revision made easy on the anatomy and physiology of the urinary system is a book that serves as a revision guide and a study aid to student of various categories it s a book that has three sections section 1 2 and 3 Section 1 contains a brief revision on the anatomy and physiology of the urinary system these make you to recall or revise what you have been taught about the urinary system and these will make more sense to you because your memory will be able to remember and recall what you have been taught Section 2 contains many revision questions and exam questions on the urinary system these make you to access yourself to see if you truly understand the concept of the topic and it also help you to put the topic in your memory this is based on the theory of exercise which says that we tend to memorize what we practice so practice makes perfection the more you practise the more you know more this book has many examination question that helps you practice

and test your understanding on the topic Section 3 contains the answers to the questions in section 2 this makes you to check if you on the right track by checking if your answer is correct or not Anthonia Jones is a student nurse in the university in which she has experience on anatomy and physiology this makes her in the best position to help students of various categories to study and understand anatomy and physiology because she has gone through the course and has been taught by different qualified teachers and she has written various exams on the course of study Just scroll up and press the buy button to purchase these effective study tool

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