

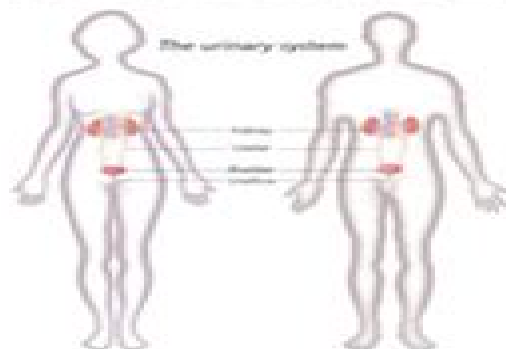


Fluid Balance & Filtration

The urinary system

The urinary system is responsible for three major functions in the body: removing wastes, removing excess water, and controlling acid-base balance in the blood. The individual components of the urinary system, kidneys, ureters, bladder, and urethra, each play an important role in these processes.

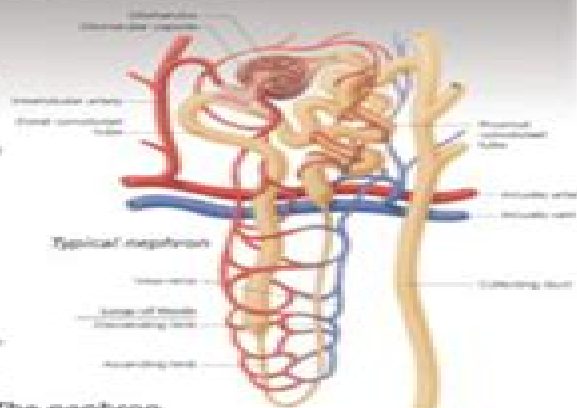
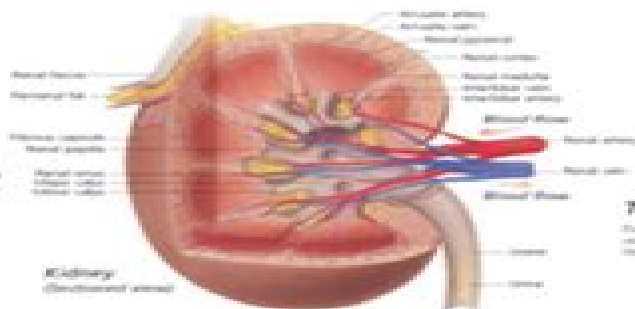
Urine formation begins within the functional units of the kidneys called **nephrons**. In nephrons, there are processes of filtration, reabsorption, and secretion. Secretion involves moving substances out of capillaries and into the general body fluid. The blood and substances move out of the capillaries and into the general body fluid. The blood and substances move out of the capillaries and into the general body fluid.



The kidney

The kidneys are located on each side of the spine in the back of the abdominal cavity. Each kidney is approximately 10 cm long and weighs about 150 grams. The outer layer is called the **capsule**. The inner part is called the **medulla**. The outer part is called the **cortex**. The inner part is called the **medulla**. The outer part is called the **cortex**. The inner part is called the **medulla**.

Within the kidney are two main regions. The **cortex** is the outer layer, which contains the **nephrons**. The **medulla** is the inner layer, which contains the **collecting ducts**. The **collecting ducts** are the tubes that carry urine from the nephrons to the bladder.



The nephron

Each kidney contains more than a million nephrons. The **nephron** is the functional unit of the kidney. It is a tube that carries urine from the blood to the bladder. The **glomerulus** is the part of the nephron where blood is filtered. The **proximal convoluted tubule** is the part of the nephron where the filtered blood is reabsorbed.



Filtration

As blood flows through the glomerular capillary, the pressure inside is high. This pressure forces the water and small solutes out of the capillary and into the Bowman's capsule. This process is called **filtration**. The **filtrate** is the fluid that is filtered out of the blood.

The **filtrate** is then moved into the **proximal convoluted tubule**, where it is reabsorbed. The **proximal convoluted tubule** is the part of the nephron where the filtered blood is reabsorbed.

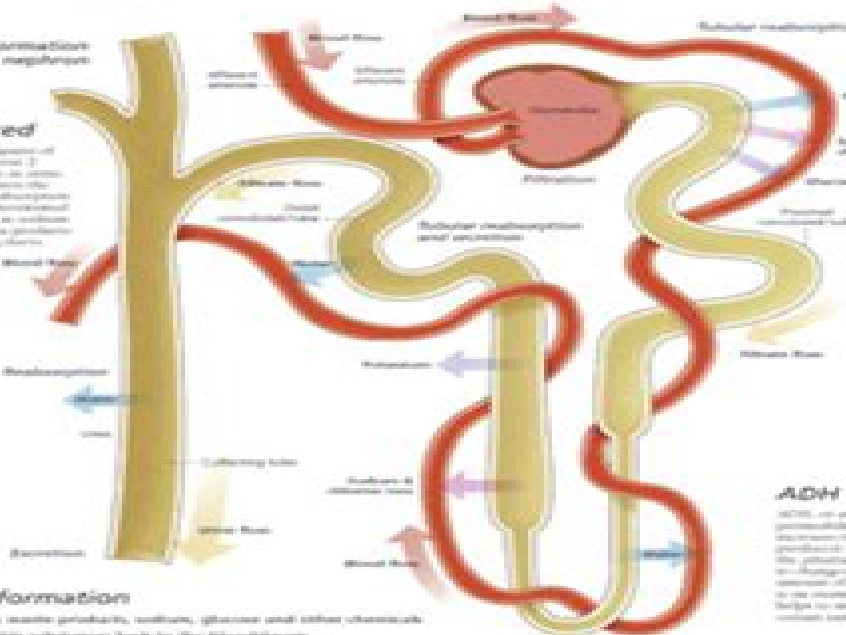
ADH and fluid levels



ADH & fluid volume

ADH (antidiuretic hormone) is secreted by the posterior pituitary gland. It acts on the collecting ducts to increase their permeability to water. This allows more water to be reabsorbed from the collecting ducts back into the blood.

Filtrate formation in the nephron



How urine is produced

The kidneys produce an average of 1.5 liters of urine daily. This urine is then moved into the bladder. The **urine** is the final product of the filtration process.

The composition of urine



Key stages of urine formation

- Filtration** - Filtering of water, waste products, sodium, glucose and other chemicals.
- Reabsorption** - Movement of usable substances back to the bloodstream.
- Secretion** - Transport of waste materials from capillaries around the renal tubule back into the renal tubule for removal with the urine.

The Kidneys Balancing The Fluids The Human Body

Kevin T. Patton, Gary A. Thibodeau



The Kidneys Balancing The Fluids The Human Body:

Introduction to the Human Body, 11th Edition EMEA Edition Gerard J. Tortora, Bryan H. Derrickson, 2019-02 A comprehensive approach to learning anatomy and physiology This updated edition offers a balanced introduction to the complexities of the human body Class tested pedagogy and figures are seamlessly woven into the narrative to ensure that students gain a solid understanding of the material Outstanding visual elements provide students with greater clarity and a more engaging learning experience of the structure functions and organ systems of the body Publisher s description *The Facts on File Illustrated Guide to the Human Body* TBD, Diagram Group, 2005 Contains information on anatomy physiology major ailments and healthy lifestyles with each volume covering a distinct body system **Nancy Caroline's Emergency Care in the Streets** test American Academy of Orthopaedic Surgeons (AAOS),, Nancy L. Caroline, Bob Elling, Mike Smith, 2012-08-16 Este libro refleja la experiencia colectiva de un equipo de autores de primera linea y decadas de sabiduria basada en su experiencia Cubre el contiendo mas relevante de la practica actual de paramedicina con claridad y precision en un formato conciso que asegura la comprension del estudiante y lo anima a desarrollar el pensamiento critico Esta edicion acentua la idea de que formarse como paramedico es una busqueda continua de crecimiento y excelencia en todas las areas de una carrera completa Los conceptos de liderazgo de equipo y profesionalismo se van construyendo a lo largo de los capitulos en los cuales se desafia a los estudiantes para hacer la asistencia medica mas compasiva concienzuda asi como ser clinicos profesionales de alto nivel Contenido de tecnica medica de actualidad Este texto incluye una cobertura a fondo de la fisiopatologia para formar una comoprension avanzada de los procesos de la enfermedad que se espera que atienda el paramedico de hoy Otros temas incluyen la reanimacion y el tratamiento del paciente critico el electrocardiograma de 12 derivaciones las habilidades basicas y avanzadas de las vias aereas la terapia intravenosa y la administracion de medicamentos Enfoque claro para la valoracion del paciente Este libro ensena y refuerza el concepto de evaluacion del paciente con un capitulo extenso asegurando que los estudiantes entiendan la evaluacion del paciente como un solo proceso integrado la realidad que enfrentan los proveedores de salud en la practica de campo Cada capitulo clinico refuerza los pasos del proceso de evaluacion del paciente dentro del contexto de la enfermedad o dano que se analiza Aplicacion solida del mundo real del SMU Ofreee a los estudiantes un contenido genuino para la aplicacion de los conocimientos presentados mediante el estudio de casos de pacientes que evolucionan a lo largo de cada capitulo Este enfoque muestra al estudiante como toda la informacion se utiliza para ayudar a los pacientes en el campo 2014 1888 pages *The Human Body in Health & Disease - E-Book* Kevin T. Patton, Gary A. Thibodeau, 2017-01-11 No one explains A P more clearly The Human Body in Health Disease 7th Edition makes it easier to understand how the body works both in normal conditions and when things go wrong Its easy to read writing style more than 500 full color illustrations and unique Clear View of the Human Body transparencies keep you focused on the principles of anatomy physiology and pathology New to this edition are Connect It

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