

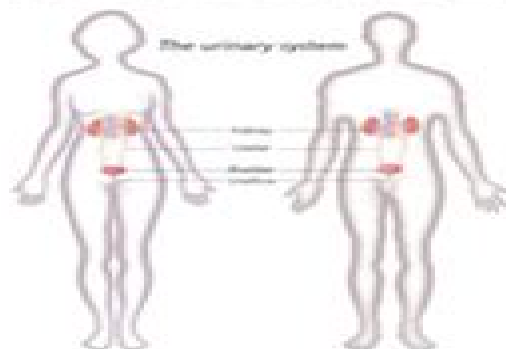


# Fluid Balance & Filtration

## 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.

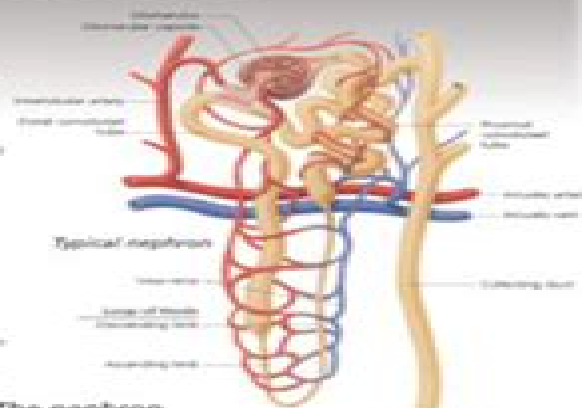
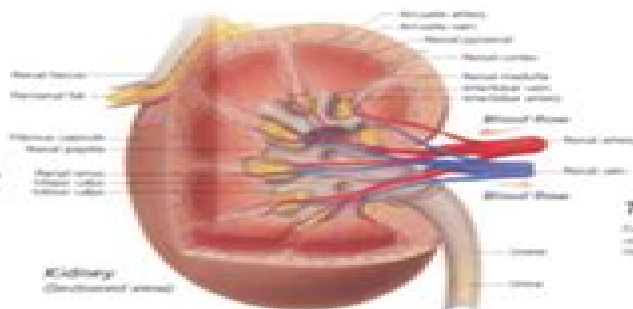
Urine formation begins within the functional units of the kidney called **nephrons**. In nephrons, there are processes of filtration, reabsorption, and secretion. Secretion involves moving substances out of capillaries and into the proximal part of the renal tubule, and reabsorption involves such as drugs and small wastes. The filtrate that results from this process is eventually diluted with water to produce urine.



## 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 x 5 cm, bean-shaped, and covered in a fibrous capsule. The outer layer is called the **capsule**, the inner layer is called the **medulla**, and the central part is called the **hilum**.

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 **renal pelvis** is the part of the kidney that leads to the **ureter**, which carries urine out of the body. The **renal vein** carries blood out of the kidney, and the **renal artery** carries blood into the kidney.



## The nephron

Each kidney contains more than a million nephrons. The **glomerulus** is the part of the nephron where blood is filtered. It is a cluster of small blood vessels. The **proximal convoluted tubule**, the **loop of Henle**, and the **distal convoluted tubule** are the parts of the nephron that reabsorb and secrete substances.

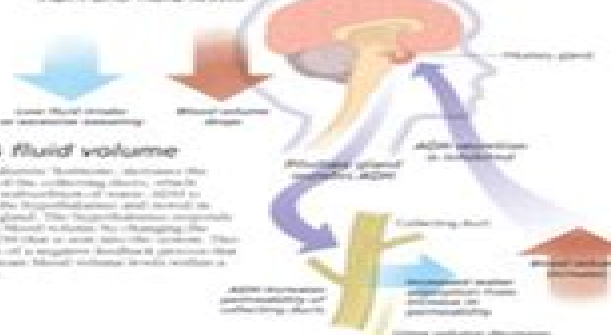


## Filtration

As blood flows through the glomerular capillary, blood pressure forces a fluid out of the capillary and into the Bowman's capsule. This fluid is called the **filtrate**. It contains water, glucose, amino acids, and small ions. The **filtrate** then moves into the **proximal convoluted tubule**, where most of the water and small ions are reabsorbed. The **filtrate** then moves into the **loop of Henle**, where most of the water and small ions are reabsorbed. The **filtrate** then moves into the **distal convoluted tubule**, where most of the water and small ions are reabsorbed. The **filtrate** then moves into the **collecting duct**, where most of the water and small ions are reabsorbed.

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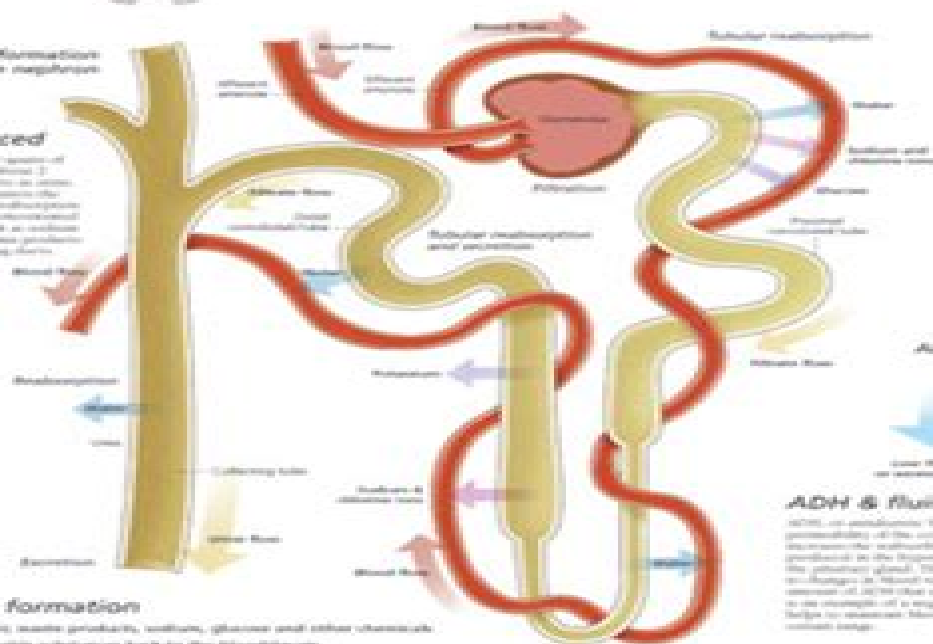
## ADH and fluid levels



## ADH & fluid volume

ADH, or **antidiuretic hormone**, decreases the permeability of the collecting ducts. This decreases the amount of water that is reabsorbed in the collecting ducts. The **hypothalamus** releases ADH in response to low blood volume or low blood pressure. The **hypothalamus** also releases **angiotensin II**, which causes the blood vessels to constrict and the heart to pump more blood. This increases the blood volume and blood pressure.

## Filtrate formation in the nephron



## How urine is produced

The kidneys produce an average of 1.5L of urine per day. This urine is produced by the **nephrons**. The **nephrons** are the functional units of the kidney. They filter blood and produce urine. The **filtrate** is the fluid that is filtered out of the blood. It contains water, glucose, amino acids, and small ions. The **filtrate** then moves into the **proximal convoluted tubule**, where most of the water and small ions are reabsorbed. The **filtrate** then moves into the **loop of Henle**, where most of the water and small ions are reabsorbed. The **filtrate** then moves into the **distal convoluted tubule**, where most of the water and small ions are reabsorbed. The **filtrate** then moves into the **collecting duct**, where most of the water and small ions are reabsorbed.

## 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 distal tubule for removal with the urine.

# The Kidneys Balancing The Fluids The Human Body

**Adrianne Dill Linton, Mary Ann  
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