

«ҚАЗАҚ МЕДИЦИНАЛЫҚ  
ҮЗДІКСІЗ БІЛІМ БЕРУ  
УНИВЕРСИТЕТІ»  
АКЦИОНЕРЛІК ҚОҒАМЫ



АКЦИОНЕРНОЕ ОБЩЕСТВО  
«КАЗАХСКИЙ МЕДИЦИНСКИЙ  
УНИВЕРСИТЕТ  
НЕПРЕРЫВНОГО  
ОБРАЗОВАНИЯ»

# SIW

## Theme: Urinary system

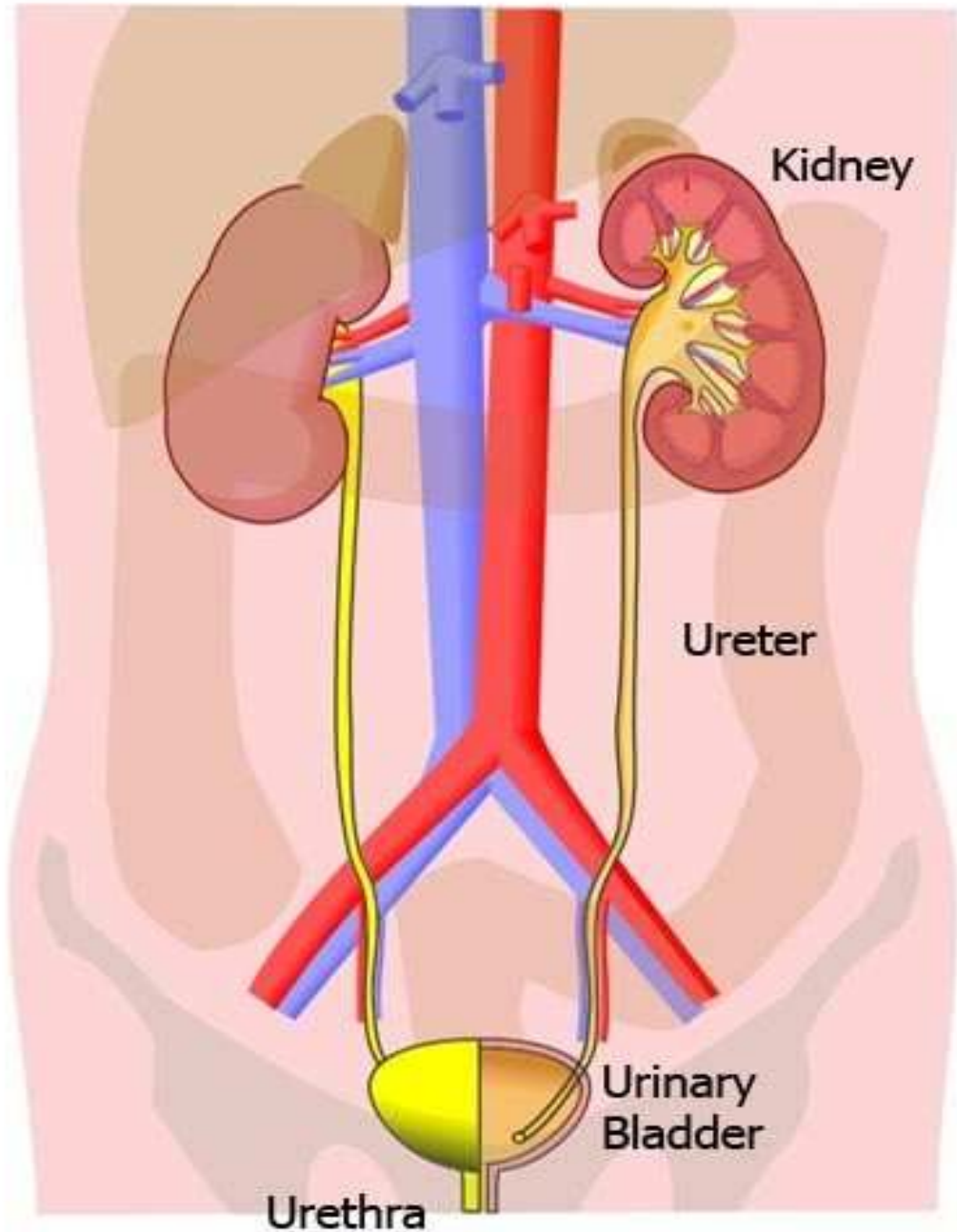
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## Outline:

1. Components:
  - Kidneys
  - Ureters
  - Urinary Bladder
  - Urethra
2. Functions
3. Literature used





# The Urinary system

- Kidneys
- Ureters
- Urinary Bladder
- Urethra



# KIDNEYS

Kidneys are two bean shaped organs lying close to the lumbar spine on either side, they are multifunction organ, form urine and control its concentration



# URETERS

Two hollow muscular tubes one arising from each kidney and ending at the urinary bladder, connect kidneys to the bladder



# URINARY BLADDER

Stores urine before it is excreted from the body, hollow muscular and distensible organ, sits on the pelvic floor.



# URETHRA

A tube connecting the urinary bladder to the genitals for excretion.



# FUNCTIONS OF URINARY SYSTEM:

As stated above, urinary system is the excretory system of human body. It performs the following important functions;

## FORMATION AND ELIMINATION OF URINE:

The main function of urinary system is formation and elimination of urine. Urine is formed by the kidneys in 3 steps;

- 1) Glomerular Filtration.
- 2) Tubular reabsorption.
- 3) Tubular secretion.





**OSMOREGULATION:** Kidneys are important osmoregulatory organs of human body. They maintain salt and water balance of the body. If the concentration of salt or water is increased above normal, kidney will excrete the excess amount. If the concentration is decreased, kidneys will reduce the loss of water and salts in

**ACID BASE BALANCE:** Kidneys are important regulators of pH of body fluids. Kidneys keep the pH balanced within a very small range and provide an optimum environment for all processes of life.



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