

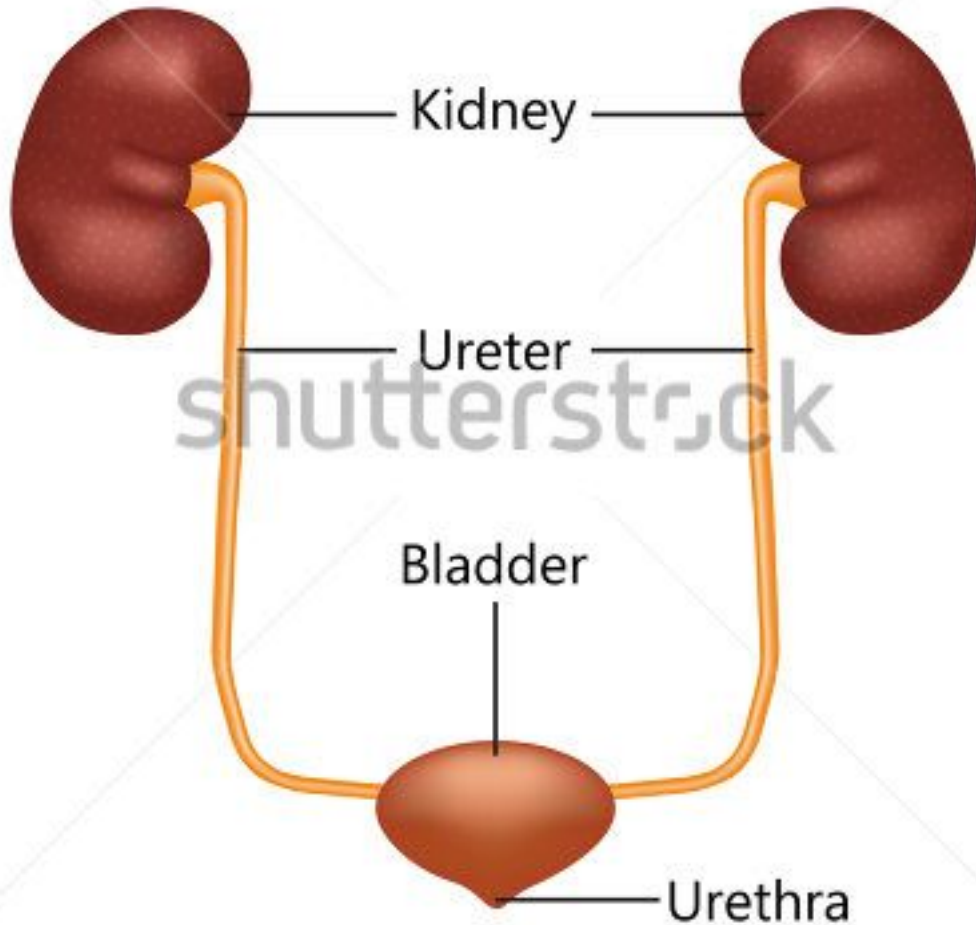
Human excretory system



You will:

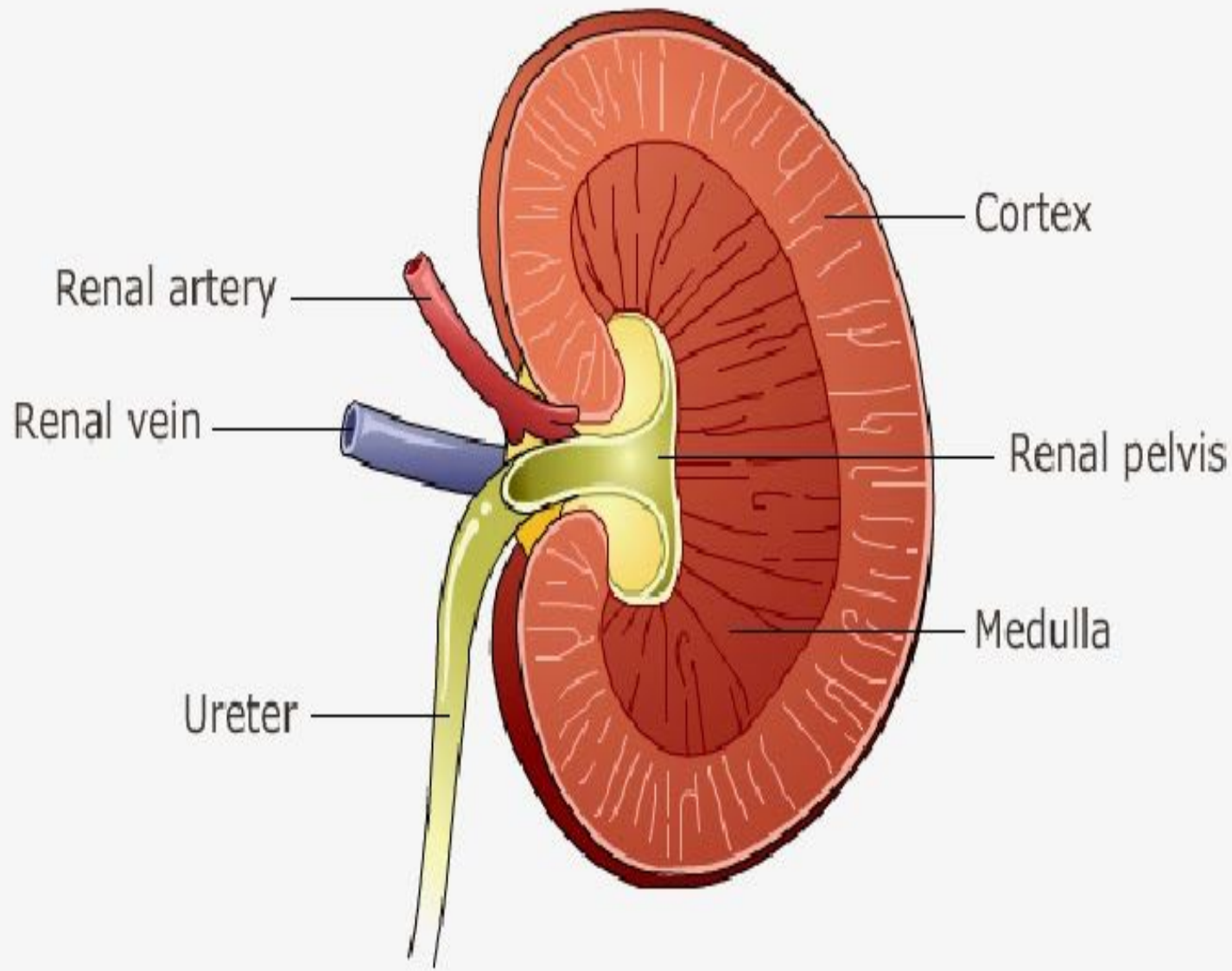
learn the structure of human excretory organs

HUMAN URINARY SYSTEM



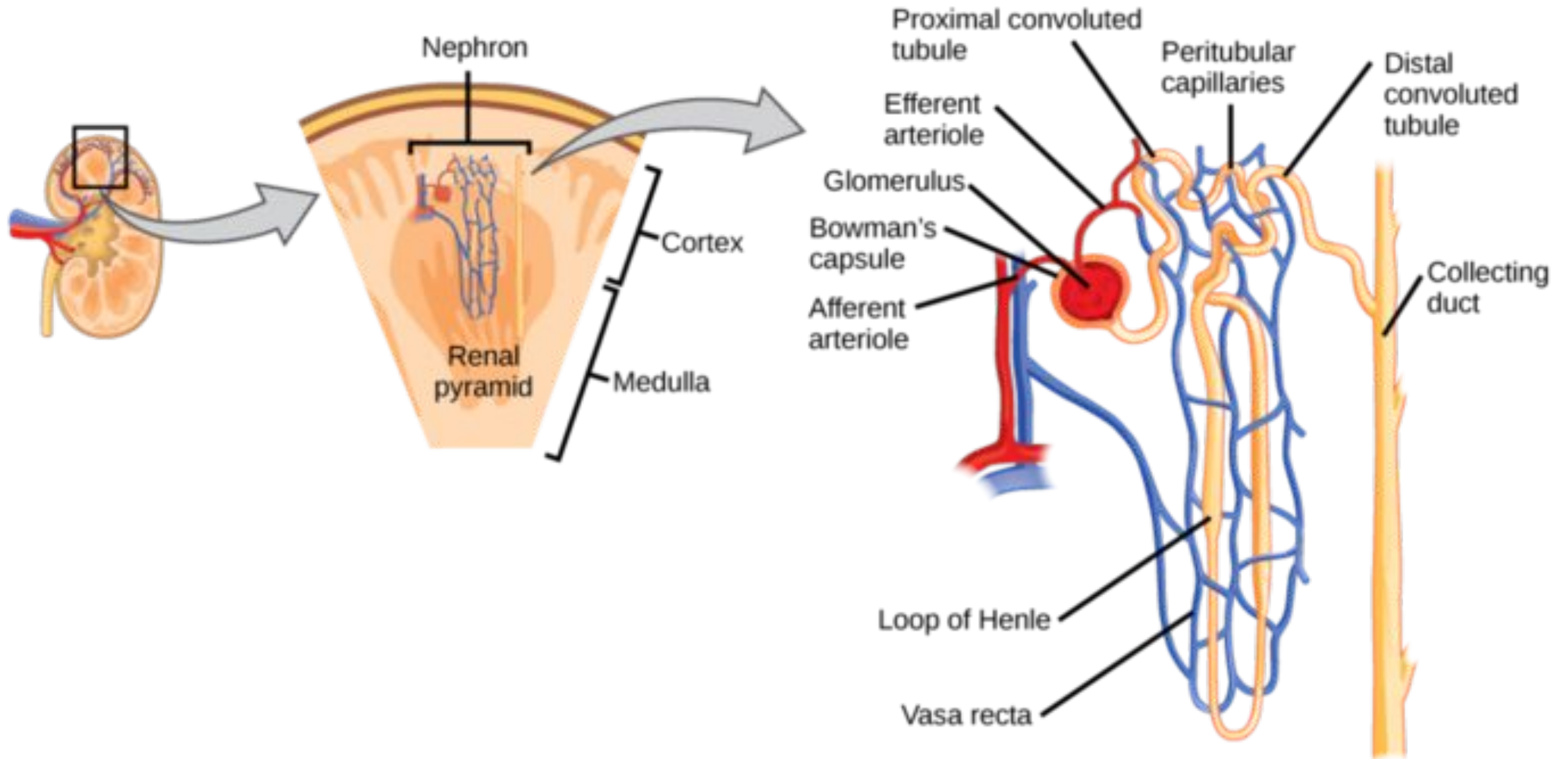
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- **Excretory system** is a system that removes excess water and unnecessary products. It consists of kidneys, ureter, urinary bladder, and urethra.



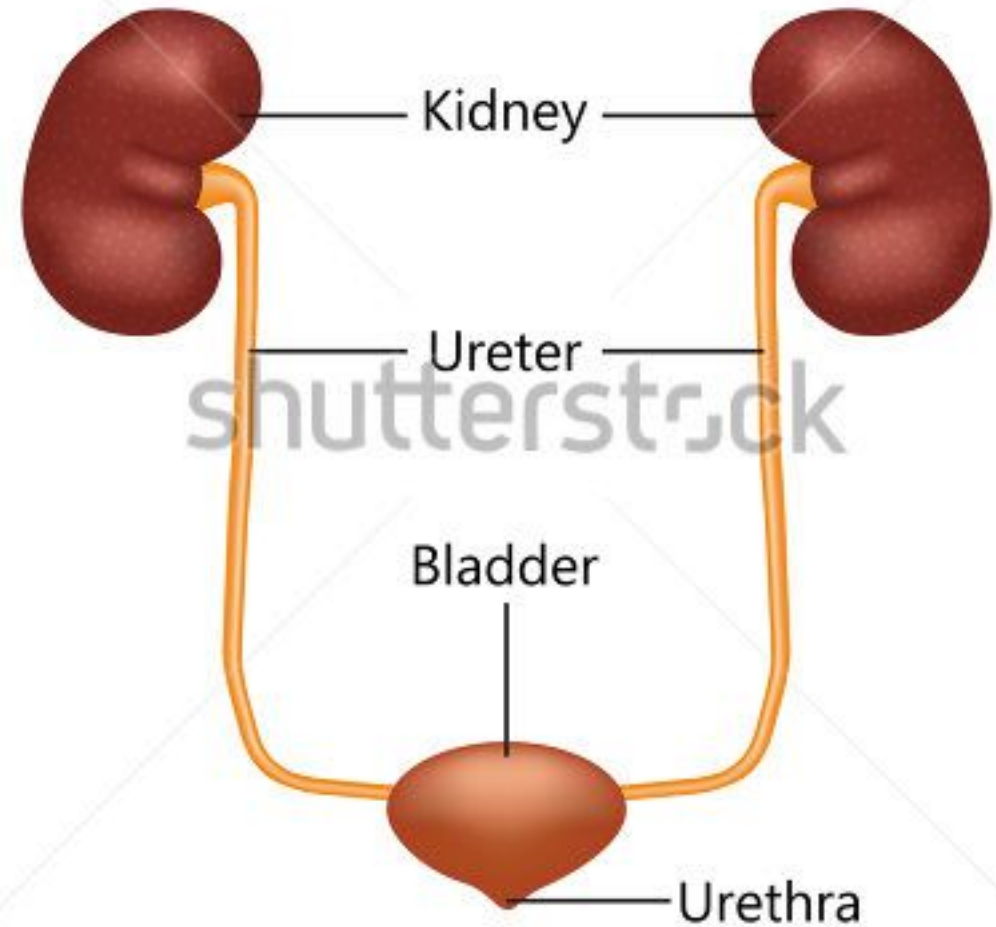
- **Kidneys** are pair of organs. It consists of two layers: **outer renal cortex** and **inner renal medulla**.
- The main structural unit of kidney is **nephron**. Nephron consists of tubules. Nephron filters blood and forms urine.
- Then this urine passes through tubules into **renal pelvis**. Renal pelvis is near the exit of the kidney. After it urine goes to ureter.

Structure of nephron

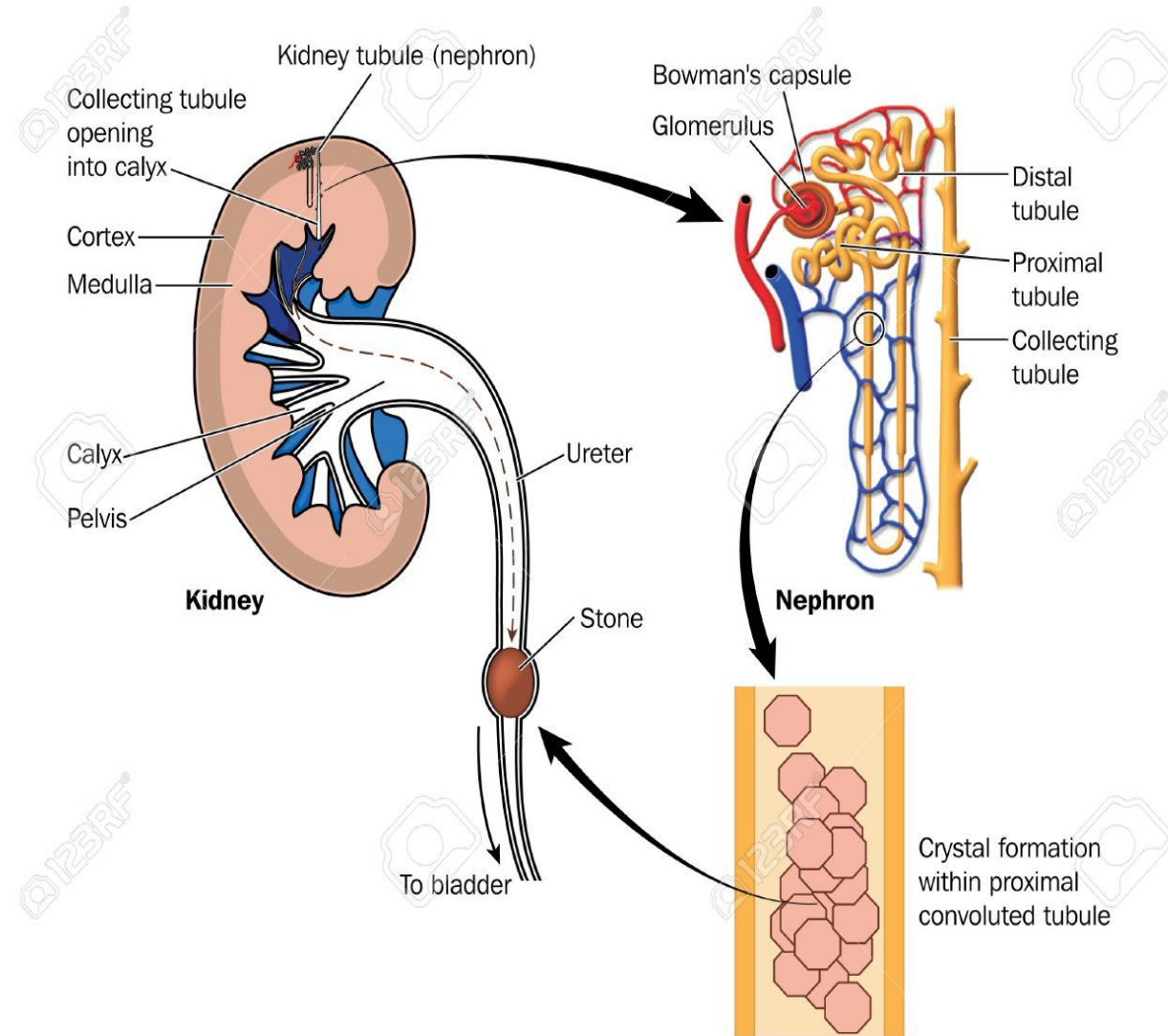


- **Ureter** is a long tube. There are two ureters, each goes from two kidneys. Urine passes from both ureters into urinary bladder.
- **Urinary bladder** stores urine. After that urine goes to urethra.
- **Urethra** lets urine out of the body.

HUMAN URINARY SYSTEM



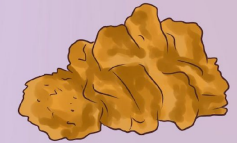
- The waste products in the blood can at times form crystals from salts and minerals. These crystals collected inside the kidneys and become a **hard stone**.
- The best way to prevent future kidney stones is to **drink enough water** to keep urine clear.
- **Nephrologists** are kidney doctors. They care and treat kidney diseases. Some treatments for kidneys are *dialysis machine* and *kidney transplantation*.



Kidney stones



Calcium Stone



Uric Acid Stone



Struvite Stones



Cystine Stone