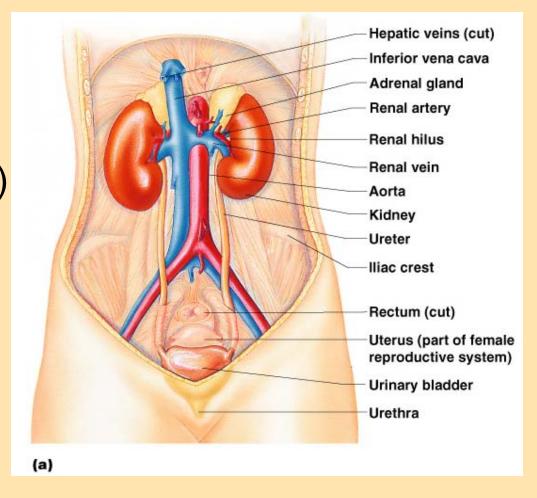
Introduction to Medical Terminology Chapter 9 The Urinary System

Functions of the Urinary System

- Elimination of waste products
 - Toxins
 - Drugs
- Regulate aspects of homeostasis
 - Water balance
 - Electrolytes
 - Acid-base balance in the blood
 - Blood pressure

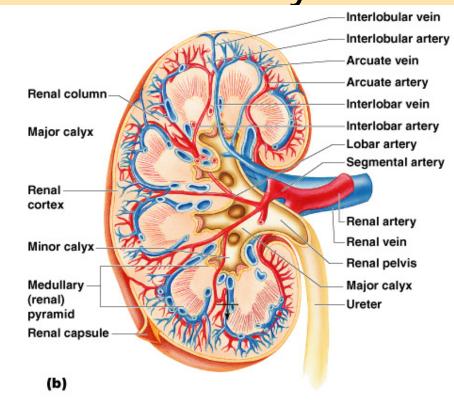
Organs of the Urinary system

- Kidneys (2)
- Ureters (2)
- Urinary bladder (1)
- Urethra (1)



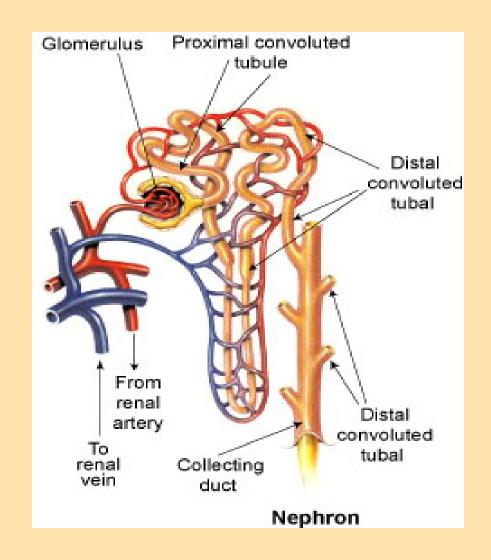
- Renal cortex outer region
- Renal medulla inside the cortex
- Renal pelvis inner collecting tube

Regions of the Kidney



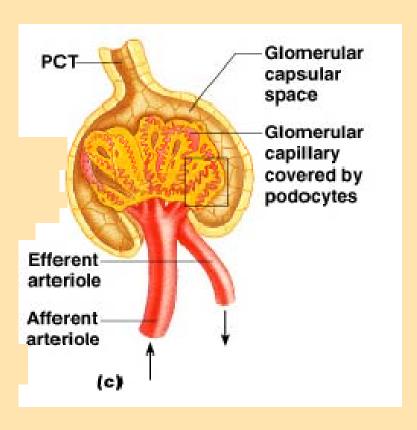
Nephrons

- The filtering units of the kidneys
- Responsible for forming urine
- Main structures of the nephrons:
 - Glomerulus Renal tubule



- Each nephron contains a glomerulus
- A specialized capillary bed
- Surrounded by a membrane called the Bowman's capsule

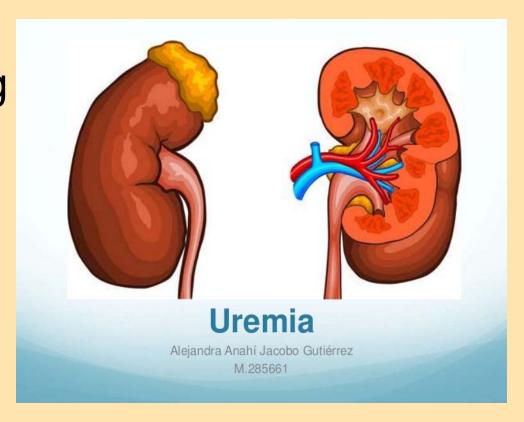
Glomerulus



Common Disorders of the Urinary System

Uremia

- Also known as uremic poisoning
- A toxic condition caused by excessive amounts of urea and other waste products in the bloodstream



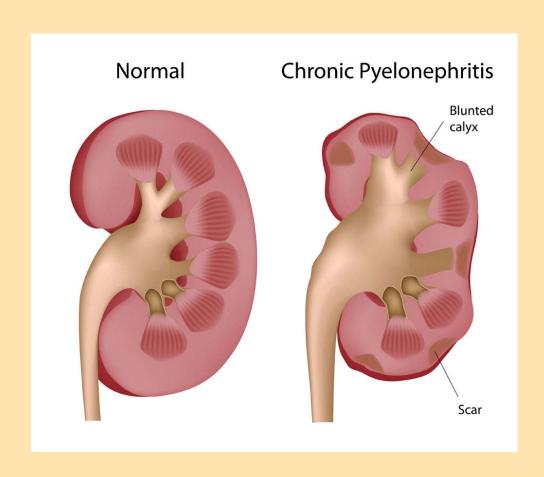
Ureteralgia

- Pain in the ureter(s)
- Often caused by a stone, also known as a calculus, in the ureter



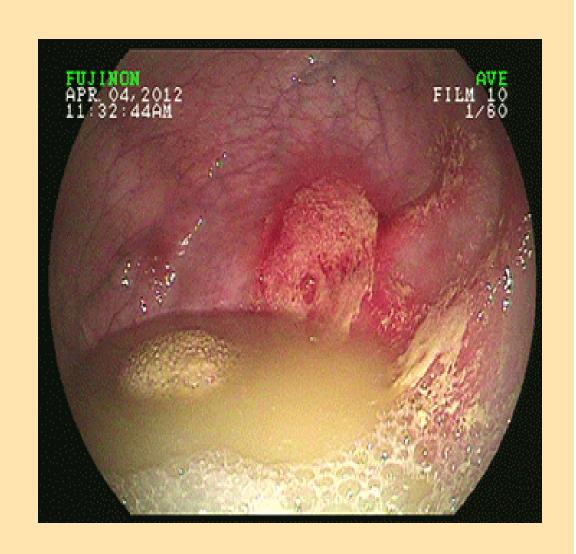
Pyelonephritis

An inflammation of the renal pelvis and of the kidney



Cystolith

A calculus in the urinary bladder



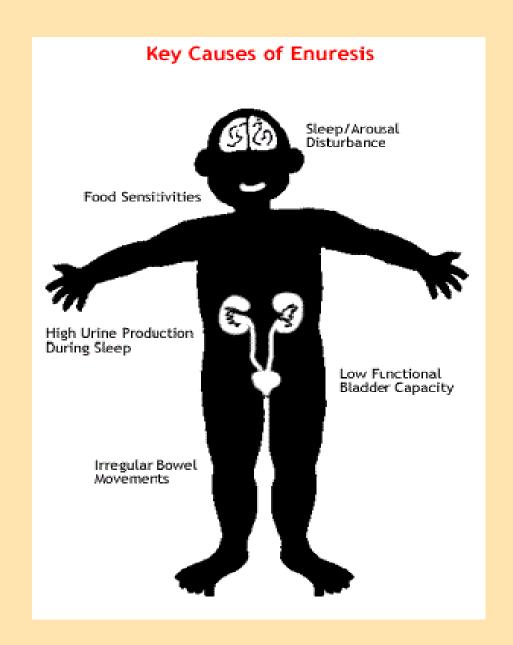
Dysuria

- Difficult or painful urination
- Can result from infection, calculi or injury



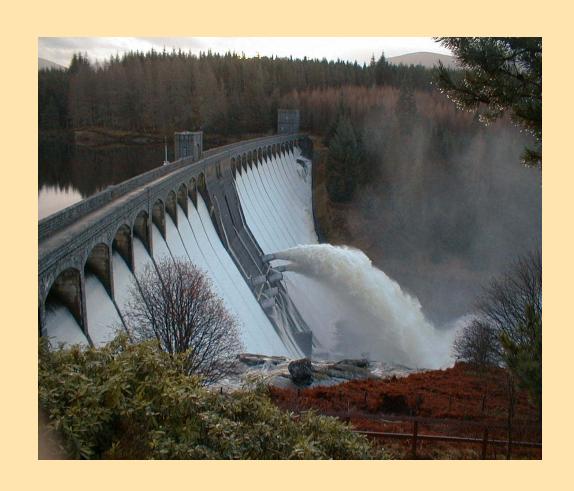
Enuresis

- The involuntary discharge of urine
- When it
 occurs during
 sleep, it is
 also known as
 nocturnal
 enuresis or
 "bedwetting"



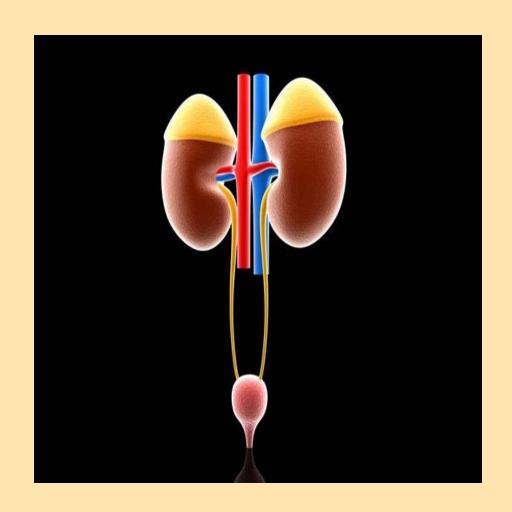
Diuresis

The increased excretion of urine



KUB

- A radiographic study of the kidneys, ureters and bladder
- Also known as a flat-plate of the abdomen



Nephropexy

The surgical fixation of a floating kidney

