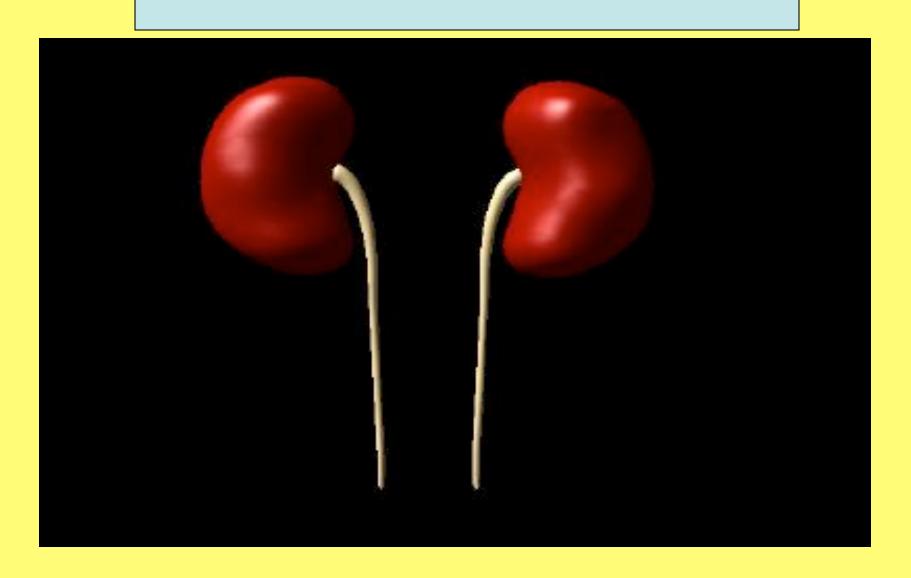
Kidney Disease



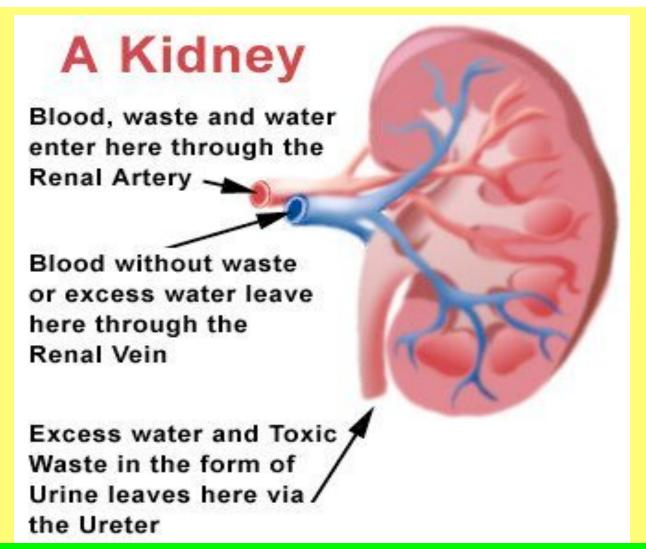
Objectives:

- Discuss the function of the kidneys
- Name two symptoms of early kidney disease
- Name two symptoms of late stage kidney disease
- Discuss the use of dialysis



* Kidneys are two beanlike shaped organs.

* They filter impurities and waste from the blood, and excrete them via the ureters to the bladder as urine.



In normal human adults, each kidney measures around eleven centimeters long and approximately five centimeters thick. It weighs about one hundred and fifty grams

Healthy kidney

Functions:

Sodium and water removal

Waste removal

Hormone production

Unhealthy kidney

Problems:

Fluid overload

Elevated wastes such as:

- urea
- creatinine
- potassium

Changes in hormone levels controlling:

- blood pressure
- making red blood cells
 - uptake of calcium

Early symptoms include

Unintentional weight loss, nausea, vomiting, general ill feeling, fatigue, headache, frequent hiccups, generalized itching.

Later symptoms may include the following

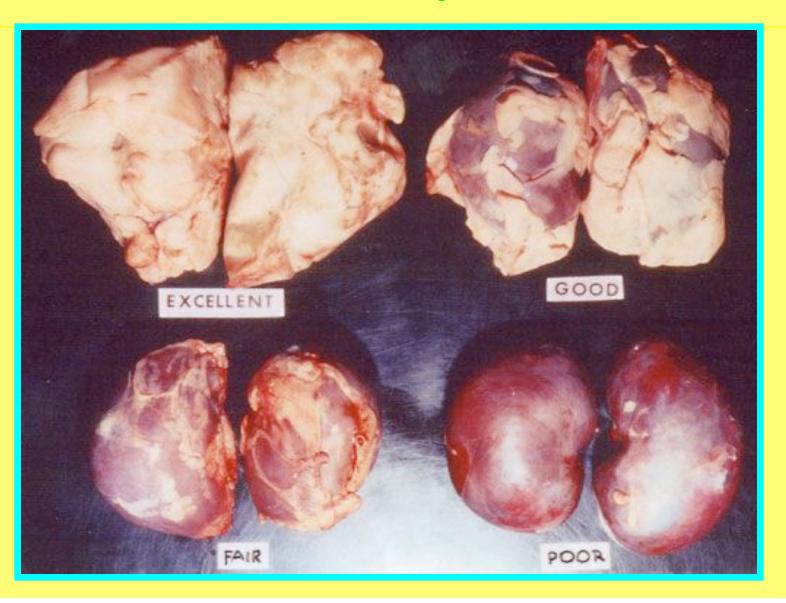
Increased or decreased urine output, need to urinate at night, easy bruising or bleeding, blood in the vomit or in stools, decreased alertness such as drowsiness, confusion or coma. Muscle twitching or cramps, seizures, uremic frost (deposits of white crystals in and on the skin), and decreased sensation in the hands, feet, or other areas

Causes

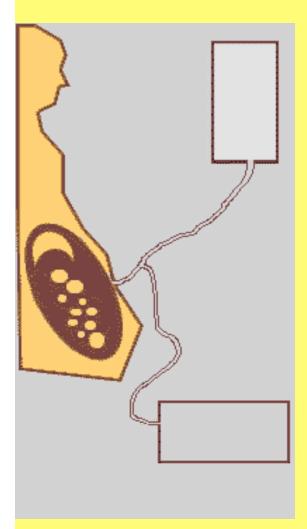
The four most common causes of chronic kidney failure include:

- 1.Diabetes
- 2. Glomerulone phritis
- 3. Hypertension
- 4. Polycystic kidney disease

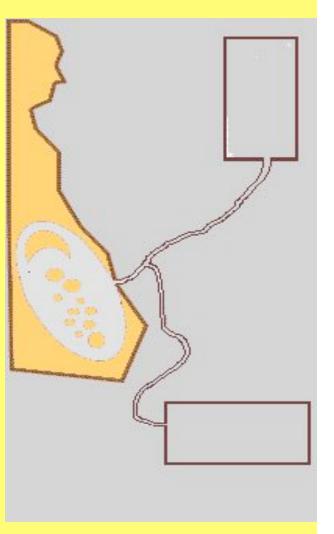
Kidneys

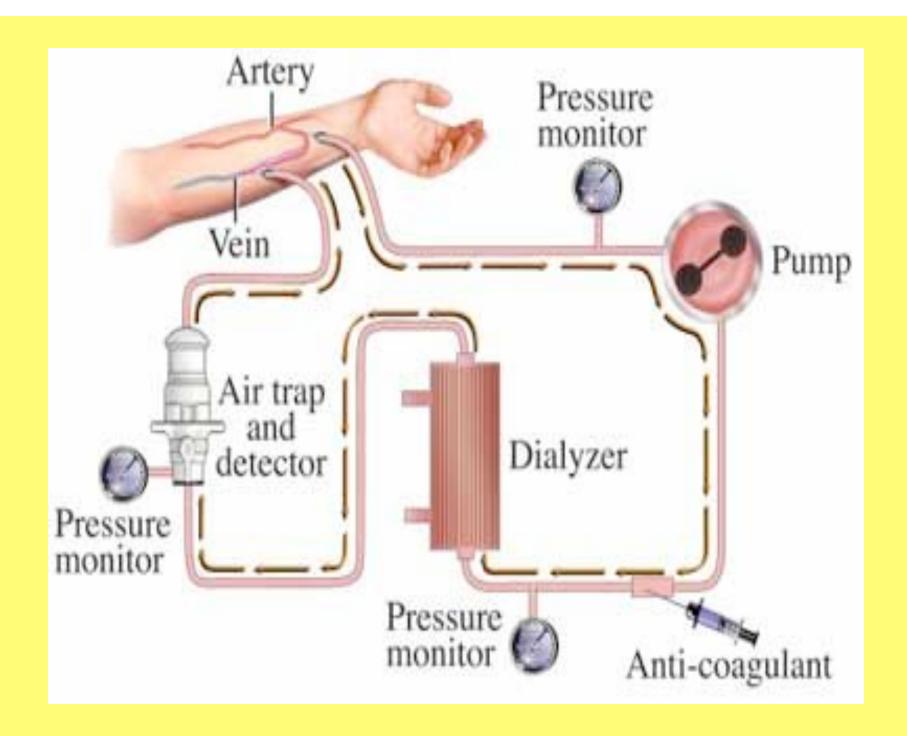


DIALYSIS









Review Questions:

- What is the main function of the kidneys?
- What does the kidney make that contains all the waste products from the blood?
- How is the blood cleaned if the kidneys are not working?