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Title: Renal Physiology

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Question

Discuss the diseases of the renal system

This occurs when organs of the renal system become damaged and can't perform their function. Damage may be caused by diabetes, high blood pressure, and various other chronic (long-term) conditions. It can lead to other health problems, including weak bones, nerve damage, and malnutrition.

They include;

1. Chronic kidney disease

Chronic kidney disease is a long-term condition commonly caused by high blood pressure. High blood pressure is dangerous for the kidneys because it can increase the pressure on the glomeruli. Over time, the increased pressure damages these vessels and kidney function begins to decline. Kidney function will eventually deteriorate to the point where the kidneys can no longer perform their job properly. In this case, a person would need to go on dialysis. Dialysis filters extra fluid and waste out of the blood. Dialysis can help treat kidney disease but it can't cure it. A kidney transplant may be another treatment option depending on your circumstances.

Diabetes is also a major cause of chronic kidney disease. The increased level of sugar in the blood damages the blood vessels in the kidneys over time. This means the kidneys can't clean the blood properly. Kidney failure can occur when your body becomes overloaded with toxins.

2. Kidney stones

Kidney stones occur when minerals and other substances in the blood crystallize in the kidneys, forming solid masses (stones). Kidney stones usually come out of the body during urination. Passing kidney stones can be extremely painful, but they rarely cause significant problems.

3. Glomerulonephriti

Glomerulonephritis is an inflammation of the glomeruli. Glomeruli are extremely small structures inside the kidneys that filter the blood. Glomerulonephritis can be caused by infections, drugs, or congenital abnormalities.

4. Polycystic kidney disease

Polycystic kidney disease is a genetic disorder that causes numerous cysts to grow in the kidneys. These cysts can interfere with kidney function and cause kidney failure. Individual kidney cysts are fairly common and almost always harmless. Polycystic kidney disease is a separate, more serious condition.

5. Urinary tract infections

Urinary tract infections (UTIs) are bacterial infections of any part of the urinary system. Infections in the bladder and urethra are the most common. They are easily treatable and rarely lead to more health problems. However, if left untreated, these infections can spread to the kidneys and cause kidney failure.