Most people have two kidneys, each about the size of an adult fist, located on either side of the spine just below the rib cage. Although they are small, your kidneys perform many complex and vital functions that keep the rest of the body in balance. For example, kidneys:

- Help remove waste and excess fluid
- Filter the blood, keeping some compounds while removing others
- Control the production of red blood cells
- Make vitamins that control growth
- Release hormones that help regulate blood pressure
- Help regulate blood pressure, red blood cells, and the amount of certain nutrients in the body, such as calcium and potassium
Healthy Kidneys

Every 30 minutes the kidneys filter all the blood in the body!

1. From the artery, blood flows into the kidneys and passes through millions of tiny filtering units called glomeruli ("glow-mare-you-lie").

2. Glomeruli can tell the difference between something you need and something you do not need. They filter out waste and extra fluid from the blood to make urine.

3. Tubes called ureters carry urine to the bladder. Urine is removed when you urinate ("pass water," "go to the bathroom").

4. The cleaned, filtered blood goes into the vein and back into circulation.

Here’s how kidneys perform their important work:

1. Blood enters the kidneys through an artery from the heart
2. Blood is cleaned by passing through millions of tiny blood filters
3. Waste material passes through the ureter and is stored in the bladder as urine
4. Newly cleaned blood returns to the bloodstream by way of veins
5. Bladder becomes full and urine passes out of the body through the urethra

The kidneys perform their life-sustaining job of filtering and returning to the bloodstream about 200 quarts of fluid every 24 hours. Approximately two quarts are eliminated from the body in the form of urine, while the remainder, about 198 quarts, is retained in the body. The urine we excrete has been stored in the bladder for approximately one to eight hours.

For more information, contact the National Kidney Foundation

Toll-free help line: 855.NKF.CARES or email: nkfcare@kidney.org

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