

Chronic Kidney Disease (CKD)

The Facts About Chronic Kidney Disease (CKD)

- 26 million American adults have CKD and millions of others are at increased risk.
- Early detection can help prevent the progression of kidney disease to kidney failure.
- Heart disease is the major cause of death for all people with CKD.
- Glomerular filtration rate (GFR) is the best estimate of kidney function.
- Hypertension causes CKD and CKD causes hypertension.
- Persistent proteinuria (protein in the urine) means CKD is present.
- High risk groups include those with diabetes, hypertension and family history of kidney disease.
- African Americans, Hispanics, Pacific Islanders, Native Americans and Seniors are at increased risk.
- Three simple tests can detect CKD: blood pressure, urine albumin and serum creatinine.

How do your kidneys help maintain health?

In addition to removing wastes and fluid from your body, your kidneys perform these other important jobs:

- Regulate your body water and other chemicals in your blood such as sodium, potassium, phosphorus and calcium
- Remove drugs and toxins introduced into your body
- Release hormones into your blood to help your body:
 - regulate blood pressure
 - make red blood cells
 - promote strong bones.

What is chronic kidney disease (CKD)?

Chronic kidney disease includes conditions that damage your kidneys and decrease their ability to keep you healthy by doing the jobs listed. If kidney disease gets worse, wastes can build to high levels in your blood and make you feel sick. You may develop complications like high blood pressure, anemia (low blood count), weak bones, poor nutritional health and nerve damage. Also, kidney disease increases your risk of having heart and blood vessel disease. These problems may happen slowly over a long period of time. Chronic kidney disease may be caused by diabetes, high blood pressure and other disorders. Early detection and treatment can often keep chronic kidney disease from getting worse. When kidney disease progresses, it may eventually lead to kidney failure, which requires dialysis or a kidney transplant to maintain life.

What diseases cause CKD?

The two main causes of chronic kidney disease are diabetes and high blood pressure, which are responsible for up to two-thirds of the cases.

Other conditions that affect the kidneys are:

- Glomerulonephritis, a group of diseases that cause inflammation and damage to the kidney's filtering units. These disorders are the third most common type of kidney disease.
- Inherited diseases, such as polycystic kidney disease, which causes large cysts to form in the kidneys and damage the surrounding tissue.
- Malformations that occur as a baby develops in its mother's womb. For example, a narrowing may occur that prevents normal outflow of urine and causes urine to flow back up to the kidney. This causes infections and may damage the kidneys.
- Lupus and other diseases that affect the body's immune system.
- Obstructions caused by problems like kidney stones, tumors or an enlarged prostate gland in men.
- Repeated urinary infections.

Who is at risk for CKD?

Anyone can get chronic kidney disease at any age. However, some people are more likely than others to develop kidney disease. You may have an increased risk for kidney disease if you:

- have diabetes
- have high blood pressure
- have a family history of chronic kidney disease
- are older
- belong to a population group that has a high rate of diabetes or high blood pressure, such as African Americans, Hispanic Americans, Asian, Pacific Islanders, and American Indians.

Resources:

National Kidney Foundation (<http://www.kidney.org>)

National Institutes of Health (<http://www.nlm.nih.gov>)

