



What Is Chronic Kidney Disease and How Do You Prevent It?

By Shivam Joshi, MD
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With plant-based foods being so beneficial for the prevention and treatment of so many other diseases, it should come as no shock that they are also good for your kidneys.

WHAT IS KIDNEY DISEASE?

Kidney disease, or CKD (chronic kidney disease), refers to any process that damages the kidney. The kidneys are the body's filter and regulator for many of the contents in the blood. When the kidneys are damaged, their ability to regulate the amount of water, electrolytes, and toxins in the blood and urine becomes impaired. This often leads to too much water, sodium, and toxins in the blood and not enough in the urine. In other cases, people have too much protein or blood in their urine. In severe cases of kidney disease, people need a kidney transplant or long-term dialysis to replace their damaged kidneys.



WHAT CAUSES KIDNEY DISEASE?

The most common causes of kidney failure are diabetes and high blood pressure. Both conditions cause changes

to the blood vessels and internal structures of the kidneys, reducing their function over time. The more uncontrolled your blood pressure or diabetes is, the more damage can be done to your kidneys. Less common causes of kidney disease include autoimmune diseases (like lupus), medications, infections, and cancers.

SIGNS AND SYMPTOMS

Unfortunately, there are no symptoms of early kidney disease. Even with moderate kidney disease, a person may not realize anything is abnormal. For this reason, it is important to have your physician perform blood and urine testing if you are at risk for kidney disease. People at risk include those with conditions that can cause kidney disease (such as high blood pressure, diabetes, and autoimmune diseases including lupus) and those with a family history of kidney disease. Some signs and symptoms of kidney disease include high blood pressure, leg swelling, foamy urine, fatigue, changes in appetite, and trouble sleeping.

PREVENTION

The best treatment is prevention, and nowhere is that truer than in kidney disease. Once your kidneys are gone, they are gone forever, leaving dialysis or transplant as the only options—and neither is as good as holding onto your own kidneys, which work to filter out excess water and toxins from the body to form urine.

BEST DIET FOR PREVENTING CKD

If you already have high blood pressure or

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diabetes—two of the most common causes of CKD—it is not too late: They can be controlled and even reversed by eating a plant-based diet. Foods such as fruits, vegetables, whole grains, beans, and lentils can treat diabetes and high blood pressure and thereby prevent damage to your kidneys.

Plant-based foods are rich in fiber and antioxidants that can directly lower your blood pressure, improve glucose levels, reduce total body weight, and lower inflammation—all of which play a role in kidney disease. There is even evidence that meat-based foods cause the production of a compound called TMAO, which has been shown to directly cause CKD. Animal-based foods often are rich in other components that can be harmful to kidney function, such as sodium, fat, acid, phosphate, and excess protein.

How a Plant-Based Diet Treats Kidney Disease

If you already have kidney disease, adopting a plant-based diet is one of the best things you can do, because it targets three important health issues that contribute to the disease.

- **Lowers Blood Pressure**

Plant foods are naturally low in sodium and chloride (which raise blood pressure) and high in magnesium, calcium, potassium, and bicarbonate (which [lower blood pressure](#)). Research has shown that even the combination of [amino acids](#) found in animal foods raises blood pressure more than those found in plant foods. By eating plant foods, you may be able to control your blood pressure naturally and reduce your need for medications.

- **Prevents Acidosis**

Plant foods are rich in natural alkali that prevent chronic acidosis, which is a common occurrence in patients with CKD. In some cases, acidosis can

be so bad that patients take actual baking soda to return their blood to a natural pH. Low-pH (acidic) blood can worsen kidney disease. However, plant foods are pH neutral or alkaline and can [prevent](#) the worsening of kidney disease from acidosis. Why take pills when you can eat plants?

- **Reduces Blood Phosphate Levels**

Animal-based foods are high in bioavailable phosphate, which can raise blood phosphate levels and worsen CKD. Some people have phosphate levels so high that they need to take medications to bring them down. These medications can be reduced or eliminated by eating foods low in bioavailable phosphate (such as plants) and avoiding foods high in it (such as animal-based foods and sodas).

WORRIED ABOUT PROTEIN?

Many patients worry about getting enough [protein on a plant-based diet](#), especially those with CKD. However, multiple [studies](#) have shown that people eating a plant-based diet that includes a variety of fruits, vegetables, grains, and legumes have no trouble getting enough protein or amino acids. Patients only run into problems if they rely solely on a limited number of foods for their calories (for example, eating just apples and nothing else, day after day).

A WORD ABOUT POTASSIUM AND KIDNEY DISEASE

High potassium levels can be fatal in patients with kidney disease and are a concern for patients eating plant

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foods, which are often rich in potassium. However, [not all foods](#) raise potassium to the same extent. For example, dried fruit and plant-based juices and sauces can raise potassium levels quickly and should be avoided or used with caution. Eating whole fruits and vegetables is generally safer, as they contain fiber, which helps eliminate potassium from the body with bowel movements. Plant foods also contain natural alkali, which can blunt the rise in potassium in the blood.

If you have kidney disease and are considering transitioning to a plant-based diet, it is important to have your blood checked to monitor for high levels of potassium, at least initially, and to have physician supervision. If you have high levels of potassium, you may need to adjust your diet (reducing the use of tomato sauces, for example) or your medications to help with the transition. However, many patients with CKD have safely tolerated the transition to a plant-based diet and, more importantly, have greatly benefited from it.

CKD SUCCESS STORIES

If you're wondering whether diet can really have such an impact on chronic kidney disease, read these firsthand accounts from real people who have dramatically improved their CKD prognoses since going plant-based.

- [At 73, I Went Plant-Based and Said Goodbye to Obesity, Heart Disease, CKD, and Arthritis](#)
- [How I'm Beating CKD on a Plant-Based Diet](#)
- [From 3 Percent Kidney Function to Dialysis-Free on a Whole-Food Vegan Diet](#)