

National Institute of Diabetes and Digestive and Kidney Diseases

Eating Right for Chronic Kidney Disease

You may need to change what you eat to manage your chronic kidney disease (CKD). Work with a registered <u>dietitian</u> to develop a meal plan that includes foods that you enjoy eating while maintaining your kidney health.

The steps below will help you eat right as you manage your kidney disease. The first three steps (1-3) are important for all people with kidney disease. The last two steps (4-5) may become important as your kidney function goes down.

The first steps to eating right

Step 1: Choose and prepare foods with less salt and sodium

Why? To help control your <u>blood pressure</u>. Your diet should contain less than 2,300 milligrams of <u>sodium</u> each day.

- Buy fresh food often. Sodium (a part of salt) is added to many prepared or packaged foods you buy at the supermarket or at restaurants.
- Cook foods from scratch instead of eating prepared foods, "fast" foods, frozen dinners, and canned foods that are higher in sodium. When you prepare your own food, you control what goes into it.
- Use spices, herbs, and sodium-free seasonings in place of salt.
- Check for sodium on the Nutrition Facts label of food packages. A Daily Value of 20 percent or more means the food is high in sodium.
- Try lower-sodium versions of frozen dinners and other convenience foods.
- Rinse canned vegetables, beans, meats, and fish with water before eating.

Look for food labels with words like sodium free or salt free; or low, reduced, or no salt or sodium; or unsalted or lightly salted.

Nutrition Serving Size 1/4 Co Servings Per Conta	up (30g)
Amount Per Serving	
Calories 200 Cal	ories from Fat 150
2	% Daily Value*
Total Fat 17g	26%
Saturated Fat 2.5	ig 13 %
Trans Fat 0g	
Cholesterol Omg	0%
Sodium 120mg	5%
Total Carbohyd	rate 7g 2%
Dietary Fiber 2g	8%
Sugars 1g	
Protein 5g	
Vitamin A 0% • Vitamin C 0%	
Calcium 4% • Iron 8%	
*Percent Daily Values are calorie diet.	based on a 2,000

Look for sodium on the food label. A food label showing a Percent Daily Value of 5% or less is low sodium. Also look for the amount of saturated and trans fats listed on the label.

Step 2: Eat the right amount and the right types of protein

Why? To help protect your kidneys. When your body uses <u>protein</u>, it produces waste. Your kidneys remove this waste. Eating more protein than you need may make your kidneys work harder.

- Eat small portions of protein foods.
- Protein is found in foods from plants and animals. Most people eat both types of protein. Talk to your dietitian about how to choose the right combination of protein foods for you.

Animal-protein foods:

- Chicken
- Fish
- Meat
- Eggs
- Dairy

A cooked portion of chicken, fish, or meat is about 2 to 3 ounces or about the size of a deck of cards. A portion of dairy foods is ½ cup of milk or yogurt, or one slice of cheese.

Plant-protein foods:

- Beans
- Nuts
- Grains

A portion of cooked beans is about 1/2 cup, and a portion of nuts is 1/4 cup. A portion of bread is a single slice, and a portion of cooked rice or cooked noodles is 1/2 cup.

Step 3: Choose foods that are healthy for your heart

Why? To help keep fat from building up in your <u>blood vessels</u>, heart, and kidneys. To help keep fat from building up in your blood vessels, heart, and kidneys.

- Grill, broil, bake, roast, or stir-fry foods, instead of deep frying.
- Cook with nonstick cooking spray or a small amount of olive oil instead of butter.
- Trim fat from meat and remove skin from poultry before eating.
- Try to limit saturated and trans fats. Read the food label.

Heart-healthy foods:

- Lean cuts of meat, such as loin or round
- Poultry without the skin
- Fish
- Beans

- Vegetables
- Fruits
- Low-fat or fat-free milk, yogurt, and cheese

Learn more about heart-healthy eating NIHC.



Choose heart-healthy foods to help protect your blood vessels, heart, and kidneys.

Limit alcohol

Drink alcohol only in moderation: no more than one drink per day if you are a woman, and no more than two if you are a man. Drinking too much alcohol can damage the liver, heart, and brain and cause serious health problems. Ask your health care provider how much alcohol you can drink safely.

The next steps to eating right

As your kidney function goes down, you may need to eat foods with less phosphorus and potassium. Your health care provider will use lab tests to check phosphorus and potassium levels in your blood, and you can work with your dietitian to adjust your meal plan. More information is provided in the NIDDK health topic, Nutrition for Advanced Chronic Kidney Disease.

Step 4: Choose foods and drinks with less phosphorus

Why? To help protect your bones and blood vessels. When you have CKD, phosphorus can build up in your blood. Too much phosphorus in your blood pulls calcium from your bones, making your bones thin, weak, and more likely to break. High levels of phosphorus in your blood can also cause itchy skin, and bone and joint pain.

- Many packaged foods have added phosphorus. Look for phosphorus—or for words with "PHOS"—on ingredient labels.
- Deli meats and some fresh meat and poultry can have added phosphorus. Ask the butcher to help you pick fresh meats without added phosphorus.

Foods Lower in Phosphorus	Foods Higher in Phosphorus
 Fresh fruits and vegetables Breads, pasta, rice Rice milk (not enriched) 	 Meat, poultry, fish Bran cereals and oatmeal Dairy foods
 Corn and rice cereals Light-colored sodas/pop, such as lemon-lime or 	 Beans, lentils, nuts Dark-colored sodas/pop, fruit punch, some bottled or canned iced teas that
homemade iced tea	have added phosphorus

Your health care provider may talk to you about taking a phosphate binder with meals to lower the amount of phosphorus in your blood. A phosphate binder is a medicine that acts like a sponge to soak up, or bind, phosphorus while it is in the stomach. Because it is bound, the phosphorus does not get into your blood. Instead, your body removes the phosphorus through your stool.

Step 5: Choose foods with the right amount of potassium

Why? To help your nerves and muscles work the right way. Problems can occur when blood potassium levels are too high or too low. Damaged kidneys allow

potassium to build up in your blood, which can cause serious heart problems. Your food and drink choices can help you lower your potassium level, if needed.

- Salt substitutes can be very high in potassium. Read the ingredient label. Check with your provider about using salt substitutes.
- Drain canned fruits and vegetables before eating.

Foods Lower in Potassium	Foods Higher in Potassium
 Apples, peaches Carrots, green beans	 Oranges, bananas, and orange juice
White bread and pasta	Potatoes, tomatoes
White rice	Brown and wild rice
• Rice milk (not enriched)	Bran cereals
• Cooked rice and wheat cereals,	• Dairy foods
grits	Whole-wheat bread and pasta
• Apple, grape, or cranberry juice	Beans and nuts

Some medicines also can raise your potassium level. Your health care provider may adjust the medicines you take.

View tips for people with chronic kidney disease:

- Eating Right for Kidney Health (PDF, 175.28 KB) 🔑
- Sodium (PDF, 167.43 KB) 📐
- Phosphorus (PDF, 529.67 KB) 🛃
- Potassium (PDF, 158.93 KB) 📐
- Protein (PDF, 111.94 KB) 📐
- How to Read a Food Label (PDF, 178.2 KB) 🔎

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M-F

MyPlate for Healthy Eating with Chronic Kidney Disease

Low Sodium • Low Potassium • Low Phosphorus

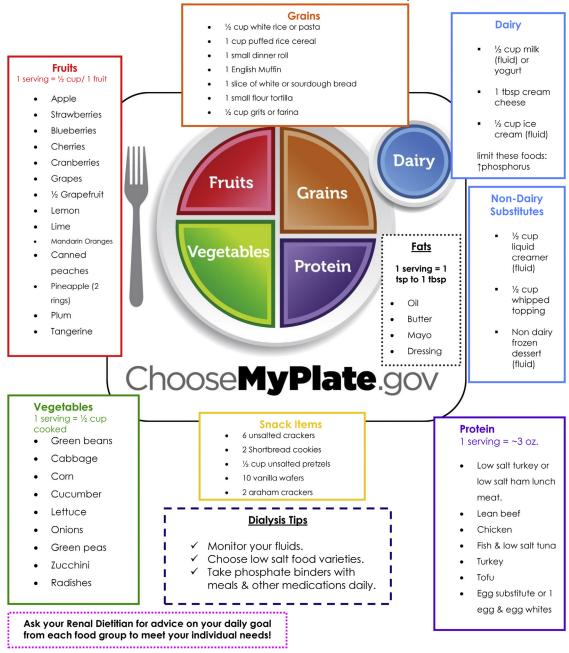


Figure 1. MyPlate handout for healthy eating with chronic kidney disease.