Phosphorus: Tips for People with Chronic Kidney Disease

What is phosphorus?

Phosphorus is a mineral your body uses to store energy, help muscles contract, and support bone health. A normal phosphorus blood level for a healthy individual is 2.5-4.5 mg/dL. Depending on your stage of chronic kidney disease (CKD), you may need to reduce the phosphorus in your diet.

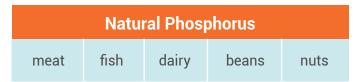
Why is phosphorus intake important?

The kidneys are responsible for maintaining healthy levels of minerals like phosphorus in the blood. If you have CKD, phosphorus can build up in your blood, which over time can lead to:

- · Itchy skin and bone and joint pain
- · Calcium being pulled from your bones, weakening them
- · Calcium deposits in your blood vessels and organs, a risk for heart attack or stroke

Where is phosphorus found?

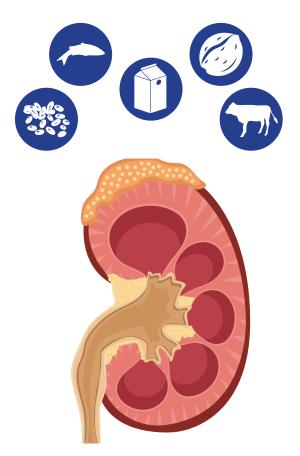
Phosphorus is naturally found in high-protein foods. About half of the phosphorus present in these foods is absorbed during digestion. Most people with CKD can eat these in moderation.



Phosphorus is **added** to many processed foods and drinks as a preservative. Your body absorbs nearly all of the added phosphorus in processed foods.

Foods with the highest amounts phosphorus are most often processed, packaged, and fast foods.

Added Phosphorus				
baking mixes		cereal	S	cereal bars
sport drinks	colas		chicken nuggets	
lunch meat		processed cheese		





Produced by the IHS Division of Diabetes Treatment and Prevention. For more diabetes information and materials, visit <u>www.ihs.gov/diabetes</u>. 07/2024



How do I lower my phosphorus levels?

Portion control

- Eat smaller portions of foods high in protein.
- · Choose plant-based foods more often since the phosphorus is less easily absorbed.

▶ Find hidden sources of phosphorus

Check the ingredients panel for the word "phosphorus" or words that contain "PHOS".	INGREDIENTS: POTATOES, OIL (PARTIALLY HYDROGENATED SOY OIL), SALT, DEXTROSE,
LL	DISODIUM PHOSPHATE, PHOSPHORIC ACID.

▶ Choose foods with less phosphorus

Foods <i>lower</i> in phosphorus 🔶	Foods higher in phosphorus 🔶		
Milk, soy, or rice beverage Yogurt, cottage cheese Cream cheese	Processed cheese: American or commodity Natural cheese: Swiss, cheddar, and mozzarella		
Fresh meat: chicken, turkey, beef, lamb, pork, and moose Legumes: Beans, lentils, tofu, and hummus Eggs	Processed meat: hotdogs, bacon, ham, sausage, and pizza with meat Seafood: shellfish, salmon, sardines, cod, and tuna Organ meat: liver, kidney, and heart Wild game: venison, bison, and elk		
Popcorn, rice cakes, and rice crispie bar	Nuts, seeds, and peanut butter, and chocolate		
Fruits and vegetables	Vegetables prepared with sauces Packaged potatoes with "phos" ingredients		
Fresh bread without "phos" ingredients, pita bread. Plain cereal: cornflakes, puffed rice, oatmeal. Corn meal and plain rice	Processed breads and cereals with "phos" additives. Baking and pancake mixes, biscuits, cakes, and wheat bran		
Drinks: Fresh brewed coffee or tea, water, light colored soda, root beer, and apple, cranberry, and grape juice	Drinks: Bottled coffee, iced tea, dark sodas, beer and wine, hot cocoa, and energy and sports drinks		

Phosphate binders

Your health care provider may prescribe phosphate binders, which are pills **taken with meals** to help lower the amount of phosphorus your body absorbs.





