



Phosphate additives and label reading

Phosphorus is often added to processed foods to enhance flavour and to act as a preservative. Most processed meats and many beverages, such as colas contain added phosphorus. The amount of phosphorus a food contains does not legally need to be included on the Nutrition Facts panel of packaged goods. To see if there is added phosphorus, look at the list of ingredients for words such as phosphoric acid and sodium phosphate. The word "seasoned" on meat, chicken or pork may also indicate that phosphorus has been added. Unlike naturally occurring phosphorus, the phosphorus from food additives is almost completely absorbed by your body. You should avoid these foods.

Medications to control phosphate level

Your doctor may prescribe phosphorus binders (calcium, Tums, Oscal, Renagel, Fosrenol). These medications act like a sponge to soak up the phosphorus in your food. For phosphorus binders to work properly, you must always take them with food.

For best results, take this medication in the middle of your meal or snack. Do not take phosphorus binders at the same time as iron supplements. Dialysis treatments remove some phosphorus from your blood. It is important to attend all of your dialysis treatments.

What is a safe level of phosphate in my blood?

A normal blood phosphate level for adults is 0.8–1.45 mmol/L, but your target level may be different. Speak to your health-care team if you have questions.



Quick Tip:

To see if there is added phosphorus, look at the list of ingredients for words such as phosphoric acid and sodium phosphate. The word "seasoned" on meat, chicken or pork may also indicate that phosphorus has been added.





Phosphorus Guidelines for Choosing Foods

Dairy and Dairy Substitutes

CHOOSE

- Fish (other than those listed under "Avoid")
- · Unseasoned beef, chicken, pork, turkey, veal

Meat and Other Proteins

CHOOSE

- Milk or yogurt (ideally choose Cheese: cheddar, mozzarella 1% or less milk fat) – ½ cup per day
- Sherbet (sorbet), popsicle, frozen dessert topping (Cool Whip)
- · Low-sodium cottage cheese and/or cream cheese (ideally choose 1% or less milk fat) – ¼ cup per day
- or Swiss 1 oz. (size of thumb), limit to 3 times a week
- Tea, hot apple cider
- Unfortified rice or almond beverage without phosphorus additives – ½ to 1 cup per day

AVOID

- · Carp, crayfish, fish roe, oysters, sardines, bones from canned fish.
- Frozen fish with phosphorus additives—check the labels and avoid ingredients with the word PHOSPHATE or PHOSPHORIC
- · "Seasoned" meats containing phosphorus additives, processed meats such as hot dogs, chicken nuggets check the labels and avoid ingredients with the word PHOSPHATE or PHOSPHORIC.
- Beef liver, chicken liver and organ meats.

AVOID

- Ice cream
- Processed cheese spread (Cheez whiz)
- Processed cheese (Kraft singles, Velveeta, etc.)
- Malted milk (e.g. Ovaltine)
- Soy, rice or almond beverages that contain phosphorus on the ingredient list

Grains and Cereals

CHOOSE

- · Non-bran cereal, shredded wheat, rice cereals, corn flakes, cream of wheat or cream of rice
- White rice, brown rice, pasta, barley, couscous, bulgur
- · Tea biscuits: homemade (use baking powder substitute**)
- Bread: white, 60–100 percent whole wheat, cracked wheat, light rye or sourdough
- · Pancakes and waffles: homemade (use baking powder substitute**)
- · Muffins: homemade (use baking powder substitute**)

AVOID

- · Bran cereal, granola
- · Packaged pasta mixes with sauce
- Tea biscuits: store-bought, mixes and refrigerated
- Bread: multi-grain, dark rye
- Pancakes and waffles: commercial, mixes and frozen
- Muffins: all store-bought and mixes





Phosphorus

Beverages

CHOOSE

- Non-cola soft drinks (ginger ale, lemon/ lime-flavoured soda, root beer)
- Spirits (gin, vodka, rum, whiskey) and wine (note: only use alcohol as advised by your doctor)
- · Lemonade (with no added phosphorus)
- · Homemade iced tea
- · Tea, hot apple cider

AVOID

- Cola soft drinks (diet or regular Pepsi, Coke, etc.), Dr. Pepper, Fanta
- · Beer, stout, ale
- · Fresh or frozen juices with added calcium
- Iced tea with phosphorus additives check the labels and avoid ingredients with the word PHOSPHATE or PHOSPHORIC
- · Cocoa, hot chocolate

Snacks and Misc

CHOOSE

- Unsalted popcorn, unsalted pretzels, unsalted corn chips, unsalted rice crackers
- Hard candy*, fruit-flavoured candy* or jelly beans*
- Jam*, jelly* and honey*

AVOID

- Nuts, pumpkin seeds, sesame seeds, sunflower seeds
- Chocolate bars
- Chocolate hazelnut spread (e.g., Nutella), nut bars, tahini
- * These items are high in sugar. Limit or avoid if you have diabetes unless you are treating low blood sugar.

My Notes

My current phosphorus level is: My goals: (e.g., I will choose ginger ale instead of cola) 1. 2. 3. Key points:

Dietitian:

About the Chronic Kidney Disease Nutrition Fact Sheets

The Chronic Kidney Disease (CKD) Nutrition Fact Sheets were created in 2012 by the Ontario Renal Network in collaboration with Renal Dietitians in Ontario to standardize materials and to form a basis for cohesive education tools. The nutrition working group adapted the fact sheets available on the Kidney Foundation of Canada's website to create the CKD Nutrition Fact Sheets. These fact sheets are not meant to replace existing education materials you may have, but rather to supplement them as required. The CKD Nutrition Fact Sheets can be used individually or as a set. The three fact sheets (revised in 2015) are: Phosphorus (phosphate); Potassium; Diabetes & Diet.

Telephone:

The CKD Nutrition Fact Sheets were made possible through the efforts and commitments of the Independent CKD Dietitian Working Group: Melissa Atcheson, RD (Grand River Hospital); Darlene Broad, RD (Kingston General Hospital); Shannon Chesterfield, RD (Windsor Regional Hospital); Saundra Dunphy, RD (St. Joseph's Healthcare Hamilton); June Martin, RD (Grand River Hospital); Christine Nash, RD (University Health Network).

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