

# Health Services Authority Low Phosphorus Diet Patient Handout

Phosphorus is a mineral that works with calcium to keep your bones and teeth strong. However, some cancer treatments can cause high phosphorus levels in the blood (a condition called **hyperphosphatemia**). In some cases, high phosphorus levels may require your treatment dose to be adjusted or held.

## Why Is High Phosphorus a Problem?

Too much phosphorus in your blood can lead to crystals forming with calcium in your skin, blood vessels, heart, lungs, brain, and eyes. This can lead to itchiness, joint pain, hardening of arteries, muscle, and organ damage. To help manage high phosphorus levels caused by your medication, your provider team may recommend a **low phosphorus diet**.

## How Much Phosphorus Should I Limit My Diet to Each Day?

How much phosphorus you can eat every day depends on your treatment and your blood phosphorus levels. Your care team will support you during your treatment and help you know how much phosphorus to limit in your diet. It is important to get enough food to maintain your strength and weight during treatment. If limiting phosphorus in your diet is making this difficult, let your doctor know right away and ask for a referral to a dietitian.

## **How to Eat Less Phosphorus**

- 1. Read food labels and avoid ingredients with "phos"
- 2. Choose fresh, unprocessed foods when possible
- 3. Make your meals at home most of the time

## **Hidden Sources of Phosphorus**

Phosphorus additives are found in many processed foods. Unlike phosphorus found naturally in foods, phosphorus additives are **almost completely absorbed** by the body. Aim to **limit** foods naturally high in phosphorus and **avoid** foods with phosphorus additives. Look for ingredients with "phos" in the name, e.g., phosphoric acid, disodium phosphate, hexametaphosphate, tri-calcium phosphate.

## **Limit or Avoid These High-Phosphorus Foods:**

- Processed foods and drinks with phosphorus additives (including fast food items, including pancake and waffle mixes, instant puddings and sauces)
- Processed meats (chicken nuggets, bologna, deli meats, ham, hot dogs)
- **Seasoned meats** (labeled "enhanced," "fresh," or "frozen" and injected with sodium phosphate)
- Soda and soft drinks (regular and diet colas, some root beers, iced teas)
- Processed cheeses (cheese slices, Velveeta, Cheese Whiz)
- Evaporated or condensed milk, non-dairy creamers (Coffee Rich™, International Delight™)
- **Chocolate** (bars, milk, hot chocolate, candies, syrup)
- Organ meats (liver, kidney, pancreas, thymus, brain)
- Fish with edible bones (sardines, canned salmon)
- Nuts and seeds, nut butters
- High-fiber cereals (All-Bran<sup>™</sup>, Red River<sup>™</sup>, granola), cold cereals, instant hot cereals)
- Bran muffins, dark rye or pumpernickel breads
- Refrigerated biscuits, bread and cookie dough

Adapted from *BC Renal "Phosphorus and Your Kidney Handout"*, AHS "*Phosphorus and Your Kidney Diet Handout*". Developed by Provincial Systemic Therapy Process Team with endorsement from BC Cancer Dietician Professional Practice

Developed: 1 Jan 2026 Revised: Page 1



Adapted from *BC Renal "Phosphorus and Your Kidney Handout"*, AHS "*Phosphorus and Your Kidney Diet Handout*". Developed by Provincial Systemic Therapy Process Team with endorsement from BC Cancer Dietician Professional Practice

Developed: 1 Jan 2026 Revised: Page 2

## Foods to Keep Your Phosphorus Levels Low

## **Grain Foods**

#### Choose

- Barley
- Bread: white, French, Italian, cracked wheat, light rye, sourdough, or 60% whole wheat
- Cereals, cold: Corn Bran®, Cornflakes®, Puffed Rice®, Puffed Wheat®, Rice Krispies®, Special K®
- Crackers: soda crackers, Melba, Wheat Thins®, unsalted
- Cream of Wheat® (instant), corn grits
- Digestive & arrowroot biscuits, graham wafers

- Flour: white, rice, light rye
- Grains: bulger, cracked wheat, quinoa, buckwheat
- Muffins: homemade plain, fruit, or oatmeal
- Pasta: white or couscous
- Pita bread, wraps, chapati and roti, white,
   60% whole wheat
- Unsalted popcorn, pretzels or tortilla chips
- Tortillas, corn
- Rice or rice noodles, white

## Limit

- Breads, whole grain (100% whole wheat, multigrain, dark rye)
- Cereals, cold: whole grain cereals such as All Bran®, All Bran Budds®, Bran Flakes®, Fiber One®, Mini Wheats®, Total®, Oat Square®, Oatmeal Crisp®, Shreddies®, Shredded Wheat®, Total®
- Cereal, hot: oat bran

- Flour: whole wheat, dark rye, bran, wheat germ
- Homemade pancakes, waffles, biscuits
- Muffins, bran and oat bran
- Oats, rolled
- Pasta, whole wheat
- Pita bread, wraps, chapati, whole grain
- Rice, brown or wild
- Roti, chickpea or whole grain

#### Avoid

- Baking mixes (biscuits, pancakes, waffles, and muffins), and frozen baked products (pancakes and waffles)
- Cereals, cold: Alpha Bits®, Cheerios®, Crispix®, Life®, Vector Meal Replacement®
- Cereals, hot: Cream of Wheat®, Red River®, Sunny Boy®
- Granola and cereal made with nuts, seeds, or dried fruit
- Macaroni and cheese mixes

## **Protein Foods**

#### Choose

- Beef, veal, pork, chicken, turkey, duck, eggs
- Fish, some shellfish (blue crab, lobster, shrimp)
- Lamb or mutton
- Canned tuna and salmon (bones removed)
- Wild meat (moose, caribou, deer, elk)

### Limit

- Beans or lentils
- Nuts/seeds or nut/seed butter

Tofu

#### Avoid

- Fish, canned with bones
- Fresh meat that had phosphate additives or sodium added or injected (enhanced meats)
- Organ meats like liver, heart, and kidney
- Oysters, clams, sardines
- Seeds (pumpkin, sunflowers)

- Processed meats: bacon, sausage, ham, hot dogs, salami, pepperoni, bologna, corned beef, canned meat
- Restructured meat: chicken fingers, nuggets, burgers, turkey roll, vegetarian meat substitutes

Adapted from *BC Renal "Phosphorus and Your Kidney Handout"*, AHS "*Phosphorus and Your Kidney Diet Handout*". Developed by Provincial Systemic Therapy Process Team with endorsement from BC Cancer Dietician Professional Practice

Developed: 1 Jan 2026 Revised: Page 3

Milk, Dairy, and Soy Foods	
Choose (Limit to 2 servings a day)	
<ul> <li>Cottage cheese, no added salt, ½ cup (125mL)</li> <li>Homemade custard or pudding, ½ cup (125mL)</li> <li>Ice cream, ½ cup (125mL)</li> </ul> Limit	<ul> <li>Milk or cream: skim, 1%, 2%, whole, prepared powdered milk, cream, ½ cup (125mL)</li> <li>Paneer, 1 oz (30g)</li> <li>Soy beverage, ½ cup (125mL)</li> <li>Yogurt, ½ cup (125mL)</li> </ul>
Hard cheese, 1oz (30 grams)	
Avoid	
<ul> <li>Cheese slices, processed</li> <li>Cheese spreads, processed</li> <li>Non-dairy coffee whiteners, liquid, or powder</li> <li>Chocolate flavored milk</li> </ul>	<ul> <li>Condensed or evaporated milk</li> <li>Malted drinks: Ovaltine®, Bournvita®, Horlicks®</li> <li>Pudding, instant or store-bought</li> </ul>
Other Foods	
Choose	
<ul> <li>Artificial sweeteners</li> <li>Cream cheese</li> <li>Jam, jelly</li> <li>Rice beverage, not fortified</li> <li>Sherbet</li> </ul>	<ul> <li>Soft drinks, non-cola: 7Up®, ginger ale, Sprite®, lemonade</li> <li>Sugar, white or brown, honey</li> <li>Sweets: hard candies, marshmallows, jelly beans</li> </ul>
Limit	
<ul><li>Alcohol</li><li>Caramels and chocolates</li></ul>	<ul><li>Fruit, dried: figs, raisins, dates, and coconut</li><li>Sour cream or whipping cream</li></ul>
Avoid	
<ul> <li>Beer</li> <li>Cola and diet cola drinks</li> <li>Gelatin dessert powders (Jell-O)</li> </ul>	<ul> <li>Hot chocolate mix, cocoa</li> <li>Pizza with processed meats</li> <li>Flavored water or drinks with flavoring crystals</li> </ul>

Please note that the foods listed above are general guidelines only. You may need to modify them if you are experiencing other treatment side effects, such as gastrointestinal symptoms.

### **Additional Resources**

- If you would like to look up the phosphorus content of a certain food, you may search for the food here: Canadian Nutrition Files (CNF) Search by Nutrient: Minerals, Phosphorus, P.
- The following resource is intended for individuals with kidney concerns, and therefore, the website content may not be relevant to your situation. However, the <u>Meal Plan feature</u> may be a useful tool for estimating your overall daily phosphorus intake.

Adapted from *BC Renal "Phosphorus and Your Kidney Handout"*, AHS "*Phosphorus and Your Kidney Diet Handout*". Developed by Provincial Systemic Therapy Process Team with endorsement from BC Cancer Dietician Professional Practice

Developed: 1 Jan 2026

Revised: