

Oncology Nutrition Importance of Protein

Why is Protein Important?

Good nutrition is an important part of treatment and recovery. Getting enough protein can help you:

- Build and maintain muscle mass
- Build a healthy immune system to fight infection
- Improve recovery during and after cancer treatment

Protein rich foods are a good source of calories. Calories are important for maintaining your body weight during treatment.

How much protein do I need?

The average healthy adult needs:

0.8 grams of protein per kilogram of body weight

People having cancer treatment may need more protein. You may need 1.0-1.5 g per kg body weight. Speak with a BC Cancer Dietitian about your protein needs.

Here is an example of how to calculate your protein needs:

If you weigh 154 lbs. (pounds)

- 1. Change lbs. to kg: 154 divided by 2.2 = 70 kg
- 2. Multiply kg by your protein need: 70 kg x 0.8 = 56 g protein each day

Main Sources of Protein

Animal protein: dairy products, meat, fish, poultry, and eggs

Plant protein: nuts, seeds, soy products such as tofu, beans, and legumes Supplements: protein powder, skim milk powder, ready-made protein shakes

Eat high protein foods if you are able. Use protein supplements if you are unable to eat enough protein.

October 2023 Page 1 of 3

Food category	Serving Size	Approximate amount of protein (g)
1. Meat (cooked)Beef, pork, lamb veal or wild gameChicken, turkey, or duck	3oz (about the size of a deck of cards)	25 g
 2. Fish or shellfish (Cooked) Tuna, salmon, sole, halibut Shrimp, crab, lobster Canned fish 	3oz (½ can of tuna or salmon)	20 g
Beans and Legumes (cooked or canned) Lima beans, kidney beans, chickpeas, lentils	½ cup	8g
 4. Soy products Soybeans Tofu (firm) Tofu (soft) Soy milk Tempeh 	½ cup ½ cup ½ cup 1 cup ½ cup	15g 20g 10g 6g 15g
 5. Eggs and Dairy Products Cottage cheese Eggs Yogurt (regular) Yogurt (Greek or Balkan style) Milk Cheese 	½ cup 1 large ¾ cup ¾ cup 1 cup 1 cup 1 oz.	16g 6g 5g 15g 8g 4-9g
Nuts and Nut Butters Nuts - almonds, peanuts, mixed nuts, pine nuts Seeds – pumpkin, squash Peanut butter	½ cup ½ cup 2 Tbsp.	8g 10g 8g
 7. Protein supplements Skim milk powder Protein powder Protein shakes 	½ cup 1 scoop 1 bottle	9g 15-25g 20-30g

October 2023 Page 2 of 3

Tips for eating more protein

- Eat high protein foods at every meal and snack
- Eat the protein food first before other foods
- Double the meat or fish portion in your sandwich or meal
- Add extra egg whites to homemade French toast, pancakes or waffles
- Add firm tofu to stir fry and casseroles
- Add meat or poultry to homemade soups or salads
- Add sliced egg or egg white to salads or casseroles
- Keep hard boiled eggs on hand for easy snacks
- Eat baked custard, bread pudding or rice pudding made with extra eggs or egg whites
- Cook extra portions of protein foods to have leftovers for meals or snacks
- Add **protein powder** to drinks and foods

How to use protein powder?

Use one scoop of protein powder for each ½ cup of food or drink.

For best results with liquids: mix protein powder with a small amount of the liquid to make a smooth paste. Then slowly stir in the rest of the liquid.

Stir protein powder into:

- Drinks like juice, milk, coffee, tea, water, nutrition supplements
- Savoury foods like mashed potatoes, spaghetti sauce, stew, chicken/tuna/pasta salad, curry dishes, scrambled eggs
- Sweet foods: oatmeal, cream of wheat, apple sauce, puddings, custards, ice cream, yogurt
- Spreads: margarine, butter, peanut butter, cream cheese, mayonnaise, sour cream
- Soup: broth, vegetable, noodle or cream soups, congee

Partially adapted from "How can you increase your protein intake" developed by the Renal Program of Vancouver General Hospital

October 2023 Page 3 of 3