Managing Potassium for Your Health

What does potassium do?

Your heart, muscles and nerves need the right amount of potassium to work well.



What happens when I have high levels of blood potassium?

When your kidneys are not working well, they may not be able to remove excess potassium from the body. High blood potassium can cause irregular heartbeat, muscle weakness or even sudden death. If your blood potassium is above the recommended level of 3.5 – 5.0 mmol/L, you may need to limit your potassium intake.







How much potassium can I have?

The amount of potassium that is best for you depends on:

- · How much potassium you eat now
- · Your blood potassium level
- Your body size
- The medicine you take
- How well your kidneys are working
- · The amount of urine you make
- The type of dialysis treatment



What are the food sources of potassium?

Potassium is present in almost all foods.

Natural food sources



Processed food with potassium additives



Potassium is found in fruits, vegetables, legumes, nuts and wholegrains. Your body does not digest and absorb all potassium.

These foods also contain nutrients and fibre good for your body.

Potassium is <u>added</u> to food as preservatives to enhance food stability, taste and colour.

These additives can increase blood potassium levels more than that potassium in natural foods.

How do I identify food with potassium additives?

Processed and packaged foods may contain hidden potassium additives. Avoiding them can help control your potassium levels.

Read the food labels to find out about the potassium content. Foods with high potassium additives typically contain 200mg or more potassium per serving. It is best to keep to less than 100mg per serving.



You can also look for the word "potassium" in the ingredient list. Examples of potassium additives include:

- Potassium chloride
- · Potassium lactate
- Potassium phosphate
- · Potassium citrate
- Potassium sorbate

Can you find the potassium additive in this ingredient list?



Oat base (water, oats 10%), sunflower oil, calcium carbonate, dipotassium phosphate, sea salt, vitamins (D2, riboflavin and B12)

Here are some examples of foods that may contain potassium additives:

Food categories	Examples
Processed meats	Ham, sausages, bacon, deli meats, vegetarian meat substitutes
Processed cheese and cheese products	Shredded cheese, cheese slices, cheese sauce, cheese spreads/ dips
Electrolyte beverages/ sports drink	Single Water
Instant powdered drink mixes	Milk tea, coffee, malted drinks, hot chocolate
Instant meals or soups	ALF REDO ALF R
Salt substitutes	K-salt SALT SALT SALT SALT SALT SALT SALT SALT
"Low sodium" processed foods	Low sodium meat products, canned soups, reduced salt stock cubes

Potassium food list

The tables on the following pages will help you identify fruits, vegetables, and other foods that are high in potassium. Please ask your dietitian about the right serving size for high-potassium fruits and vegetables if your favourite foods are on the list.

Fruit group

You can enjoy 2 servings of lower-potassium fruits every day.



^{*1} cup = 1 standard measuring cup (250ml)







Lemon 1 medium (110g)



Lime 5 small (175g)



Longan 15 small pieces (95g)



Lychees 5 pieces (95g)



Mango ½ medium (116g)



Mangosteen 5 whole (381g)



Nectarine 1 whole (80g)



Orange 1 medium (150g)



Pear 1 small (150g)



Persimmon ½ medium (95g)



Pineapple 1 wedge (140g)



Plum 2 small (160g)



Raisins/ sultanas 2 tablespoons (23g)



Rambutan 5 pieces (176g)



Raspberries 1 cup (123g)



Strawberries 1 cup (160g)



Watermelon 1 wedge (250g)

^{*1} cup = 1 standard measuring cup (250ml)



Higher-potassium fruits (≥ 250mg per serving)



Avocado ½ whole (272g)



Banana 1 medium (122g)



Custard Apple 1 medium (145g)



Dried goji berry 10 pieces (20g)



Duku 10 whole (282g)



Durian 5 seeds (189g)



Guava ½ medium (163g)



Honeydew 1 wedge (200g)



Jackfruit 4 seeds (94q)



Langsat 10 pieces (292g)



Mandarin orange 2 small (240g)



Papaya 1 wedge (225g)



Passion fruit 3 whole (105g)



Peach 1 medium (138g)



Pomegranate 1 whole (240g)



Pomelo 3 pieces (225g)



Rockmelon 1 wedge (180g)



Soursop 1/3 whole (146g)

List adapted from The National Kidney Foundation, Singapore



People with kidney problems should avoid eating star fruits.



Vegetable Group

You can enjoy 2 servings of lower-potassium vegetables in your diet every day.



Lower-potassium vegetables (< 350mg per serving)

1 serving:

- 100g (¾ cup) cooked or raw non-leafy vegetables
- 150g raw leafy vegetables





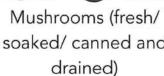


Leek

Gourd, all types

(e.g. snakegourd,

bottlegourd)





Green peas (frozen/ canned and drained)



Hairy cucumber



Lettuce



Long bean

(boiled/frozen)

soaked/ canned and drained)



Onions



Pumpkin



Radish



Rhubarb



Shallots



Snow/ snap/ garden peas



Spring onion



Sweet corn



Sweet potato



Tapioca



Tomato



Turnip



Wintermelon



Zucchini



Higher-potassium vegetables (≥ 350mg per serving)



Arrowhead



Arrowroot



Artichoke



Arugula/Rocket



Bok choy/ Pak choi/ Shanghai Green



Brussel sprouts



Cabbage (red)



Chinese cabbage/ Napa cabbage/ Wongbok



Chye sim/ Mustard green



Drumstick leaves



Fern shoot



Four angle bean/ Winged beans



Kai lan/ Kale/ Chinese broccoli



Kangkong/ Water spinach



Kau kee/ Wolfberry leaves



Lotus root



Petai



Potato



Seaweed



Spinach



Sweet potato leaves



Water chestnut (fresh)



Watercress



Yam/ Taro

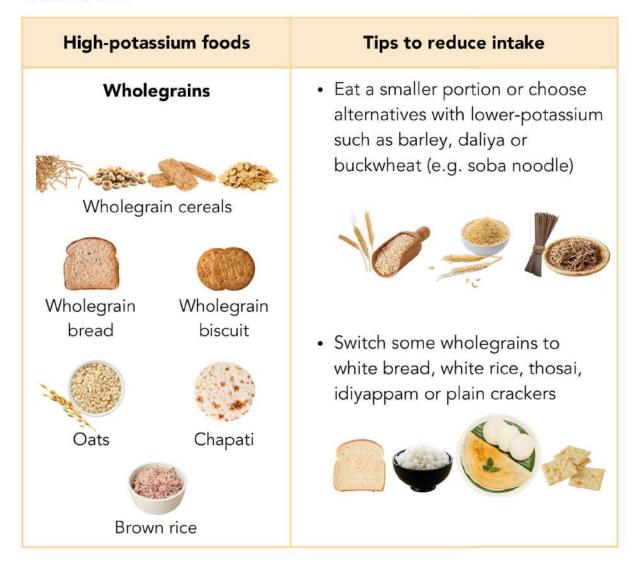
Things to take note of while enjoying your greens:

Tip 1: Soups made from lower-potassium vegetables still contain potassium. You should take no more than 1 cup (250ml) of these soups per day.

Tip 2: If you eat salads, limit to one small bowl per day.

Other high-potassium foods

Besides fruits and vegetables, there are other foods that contain potassium. If your potassium levels are high, you may need to limit these foods as well.



High-potassium foods

Dairy and soy products



Milk



Yogurt



Soymilk



Cream soup







Milk/ Soy pudding

Tips to reduce intake

- Limit all of these to a total of 1 cup (250 ml) or less per day
- Choose oat or rice milk (check the ingredient list for potassium additives)





Nuts, nut butters and seeds



Nuts and seeds



Peanut butter

 Eat these sparingly and limit to 2 tablespoons (30ml) a day or up to ½ cup (125ml) in a recipe





Beans and lentils



Chickpeas



Lentils

 Limit to ½ cup (125ml) cooked, once a week. If you have a meal with beans, leave off the meat.



Discuss with your dietitian if you are a vegetarian

High-potassium foods

Beverages



Fresh/ canned fruit and vegetable juices



Herbal medicine drinks





Cocoa and malted drinks

Tips to reduce intake

- Avoid herbal medicine drinks and fruit/ vegetable juices
- Swap cocoa or malted drinks with plain tea or coffee without milk, or plain lemon tea







Snacks



Potato chips/ snacks



Vegetable crisps





Dried fruits

Bombay mix







Chocolate products

 Replace with wheat/ corn/ ricebased snacks such as tortilla chips, plain popcorn or rice cakes







 Swap chocolate with vanilla or lemon-flavoured products



 Eat in moderation as snacks are generally high in salt and/or sugar

Tips to reduce intake **High-potassium foods** Consume Coconut and its products them in small quantities Avoid coconut water or limit to ½ cup (125ml) Coconut Coconut milk water Coconut Kaya cream

What should I know in making food choices?

 Fruits and vegetables are very important parts of your diet. Eating the right amount can help regulate your potassium levels. Please continue to eat adequately from the lower-potassium group.



 A low-potassium food can become high-potassium if you eat a large amount. Be mindful of the portion you eat.



 Instead of avoiding high-potassium foods completely, you may reduce the portion and eat it less frequently.
 Your dietitian can help you pick some from the highpotassium food list.



 Limit intake of processed food as they tend to contain potassium additives. Always check the food label and ingredient list.



What else can I do to manage my potassium levels?

Certain cooking methods can reduce the amount of potassium in food. You may use these methods to prepare higher-potassium foods. Remember to eat in smaller portions, as potassium is not completely removed!

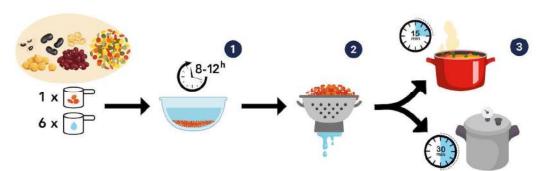
Draining

Drain and rinse all canned vegetables and legumes before consuming.



Soaking

Soak dry legumes such as beans, chickpeas and lentils in plenty of water (1 cup beans to 6 cups water) at room temperature for 8 - 12 hours. Drain and rinse legumes before cooking. Cook for 30 minutes in a regular pot or 15 minutes if using a pressure cooker.



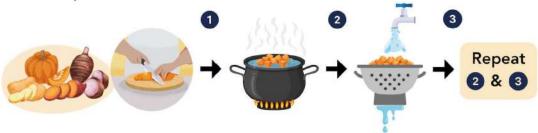
Boiling

Boil higher-potassium root vegetables such as potato, yam and pumpkin for 5 – 10 minutes in plenty of water. Drain and rinse them before eating. You can do this in advance for vegetables that you might add to soups or stews.



Boiling twice ("double boiling")

In a big pot of water, boil peeled and cut pieces of higher-potassium root vegetables. Drain, add fresh water, and boil again. Drain and rinse before consuming. This cooking method may reduce the potassium in the food by about 50 percent.



Do you know?

- All vegetables are different and they do not lose the same amount of potassium when soaked or boiled
- Many vegetables do not need soaking or boiling because the process causes loss of water-soluble vitamins



• Do not reuse the drained water, and refrain from consuming the soup or gravy in dishes as they can be high in potassium



Your diet may change depending on your blood test results. Your dietitian will review your results and make suggestions if needed.

Contributed by Nutrition & Dietetics Service, Allied Health Services

