

DASH EATING PLAN

Healthy Eating, Proven Results

The DASH eating plan is flexible and easy to follow with many resources to help you create healthy habits for a lifetime wherever you are on your health journey.

What you choose to eat can affect your chances of developing high blood pressure, also known as hypertension. Following the DASH—Dietary Approaches to Stop Hypertension—eating plan and eating less sodium have been scientifically proven to lower blood pressure and have other health benefits.

Developed through research by the National Heart, Lung, and Blood Institute (NHLBI), the DASH eating plan emphasizes vegetables, fruits, whole grains, fish, poultry, beans, nuts, low-fat dairy, and healthy oils. It focuses on reducing sodium and limiting foods that are high in saturated fat, including fatty meats, full-fat dairy products, and tropical oils. It also limits sweets and sugar-sweetened beverages. The eating plan is aimed, in part, at helping Americans with high blood pressure, a leading risk factor for heart disease, stroke, and other health problems.

The DASH eating plan requires no special foods and has easy recipes. It's flexible and can be adapted for your entire family to meet varied nutritional needs and food preferences.

Daily and weekly nutritional goals are a key part of the DASH eating plan and help you learn about nutrition and keep track of what you eat. Complementing the eating plan with physical activity can help you control high blood pressure and create heart healthy habits for a lifetime.

The DASH Journey

Starting a new way of eating can seem overwhelming, but it doesn't have to be. DASH provides easy-to-understand guidelines, delicious recipes, and lessons to develop the skills to prepare healthy meals at home or make smart choices when dining out. Where are you on your health journey? Consider these three profiles to help you decide which resources to check out first on your way to a heart healthy way of life. Looking for a specific DASH resource? See the complete collection of Tools for a Healthy Life organized by topic following the DASH journey levels.



LEVEL 2

Next Level DASH

KEEP IMPROVING ON YOUR HEALTH JOURNEY

You are familiar with the basics of DASH, and you're ready to learn more about how to take it to the next level. You want to exercise more, and are eager to manage your high blood pressure. You have seen benefits from a gradual approach to changing your eating habits and want to learn more about meal planning and adding new foods to your diet. You have started by gradually eating more fruits and vegetables and are seeking information about easy recipes to add variety and keep you motivated.

A Week With the DASH Eating Plan

This comprehensive guide provides a complete set of menus to help you plan healthy, delicious meals for a week.

What's on Your Plate?

These worksheets help you track what you eat and drink and describe serving sizes in each of the major food groups. They can help you can assess your current eating habits or monitor your efforts with DASH based on your caloric needs ranging from 1,200 to 2,600 calories per day.

Tips to Lowering Calories on DASH

Read about easy food substitutions to help you lose weight and maintain it once you do.

Getting More Potassium

Learn about this heart healthy mineral's benefits and find a list of potassium-rich foods to help lower high blood pressure.

Get Active With DASH

Being more active bolsters the benefits of the DASH eating plan. Learn how to gradually move more to make physical activity part of your daily routine and your heart healthy life.

Delicious Heart Healthy Eating Website

In this vast online collection of DASH-friendly recipes, you'll find a variety of cuisines and resources for families, educational videos, and meal planning and cooking tips.

DASH EATING PLAN

A Week With the DASH Eating Plan



Build around the recommended number of servings to meet the DASH goal. Read more: [Meal Plan](#)

Don't worry if some days are off target for your daily intake. Just try your best to keep the average of several days close to the recommended servings and sodium levels.

Preparing the DASH eating plan means you'll be eating delicious food that will also boost your health. Use the DASH eating plan to manage your weight, and lower LDL cholesterol and other "bad" cholesterol.

HEALTHY EATING PROVEN RESULTS

Eating a variety of delicious foods and cutting back on salt can help lower your blood pressure. What are you waiting for? Take control of your heart health with the DASH eating plan.

These menus give examples of heart healthy meals. How can you create your own and make the DASH eating plan part of your daily life?

- Start by keeping track of your current food habits compared with the DASH eating plan using the DASH eating plan worksheet for a week. There are 100 ways to enjoy healthy eating and that's the beauty of it.
- Explore the heart healthy eating plan. Try the DASH eating plan for a week.
- Choose your favorite foods from each of the major food groups based on your daily calorie needs to make your own healthy menu.
- Don't worry if some days are off target for your daily intake. Just try your best to keep the average of several days close to the recommended servings and sodium levels.

What's on Your Plate?

1,200 calories a day

To find your specific daily calorie needs, use the [DASH Eating Plan Worksheet](#). For the information about calories and the amount of sodium in foods, check out the [DASH Eating Plan Worksheet](#).

MEAL	FOODS	CALORIES	SODIUM (MG)
Breakfast			
Lunch			
Dinner			
Snacks			

Total daily calories: 1,200
Total daily sodium: 2,300 mg

TODAY'S TASK

1. **Track your intake.** Use the DASH eating plan worksheet to track your intake of calories and sodium for a week.

2. **Compare your intake to the DASH goal.** See how your intake compares to the DASH goal.

3. **Adjust your intake.** Use the DASH eating plan worksheet to adjust your intake of calories and sodium to meet the DASH goal.

DASH EATING PLAN

Tips to Lowering Calories on DASH



Replace high-calorie foods with lower-calorie choices.

- Use fat-free or low-fat milk.
- Use fat-free or low-fat yogurt.
- Use fat-free or low-fat cottage cheese.
- Use fat-free or low-fat sour cream.
- Use fat-free or low-fat whipped cream.
- Use fat-free or low-fat ice cream.
- Use fat-free or low-fat margarine.
- Use fat-free or low-fat salad dressing.
- Use fat-free or low-fat mayonnaise.
- Use fat-free or low-fat butter.
- Use fat-free or low-fat oil.
- Use fat-free or low-fat shortening.
- Use fat-free or low-fat lard.
- Use fat-free or low-fat tallow.
- Use fat-free or low-fat suet.
- Use fat-free or low-fat animal fat.
- Use fat-free or low-fat vegetable oil.
- Use fat-free or low-fat canola oil.
- Use fat-free or low-fat soybean oil.
- Use fat-free or low-fat corn oil.
- Use fat-free or low-fat sunflower oil.
- Use fat-free or low-fat safflower oil.
- Use fat-free or low-fat flaxseed oil.
- Use fat-free or low-fat olive oil.
- Use fat-free or low-fat grape seed oil.
- Use fat-free or low-fat avocado oil.
- Use fat-free or low-fat coconut oil.
- Use fat-free or low-fat palm oil.
- Use fat-free or low-fat palm kernel oil.
- Use fat-free or low-fat castor oil.
- Use fat-free or low-fat jojoba oil.
- Use fat-free or low-fat mineral oil.
- Use fat-free or low-fat paraffin oil.
- Use fat-free or low-fat petroleum oil.
- Use fat-free or low-fat silicone oil.
- Use fat-free or low-fat tung oil.
- Use fat-free or low-fat wood oil.
- Use fat-free or low-fat castor nut oil.
- Use fat-free or low-fat cottonseed oil.
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HEALTHY EATING PROVEN RESULTS

Making simple substitutions can cut calories and add up to a big difference in your weight as you aim for your DASH goals.

The DASH eating plan may help you lose weight. It's rich in heart-healthy foods, such as fruits and vegetables, which provide a lot of fiber and help you feel full. It's also low in saturated fat and sodium. It's also low in calories. It's also low in fat. It's also low in sugar. It's also low in salt. It's also low in cholesterol. It's also low in trans fat. It's also low in added sugar. It's also low in added salt. It's also low in added preservatives. It's also low in added artificial flavors. It's also low in added artificial colors. It's also low in added artificial sweeteners. It's also low in added artificial preservatives. It's also low in added artificial flavors. It's also low in added artificial colors. It's also low in added artificial sweeteners. It's also low in added artificial preservatives.

DASH EATING PLAN

Getting More Potassium



Increasing potassium by eating potassium-rich foods can help lower blood pressure. Here are some potassium-rich foods to help you get more potassium.

- Fruits:** Bananas, oranges, cantaloupe, honeydew, apricots, kiwi, and raisins.
- Vegetables:** Spinach, sweet potatoes, mushrooms, and tomatoes.
- Beans:** Kidney beans, black beans, and lentils.
- Fish:** Salmon, tuna, and cod.
- Dairy:** Milk, yogurt, and cheese.
- Other:** Avocado, raisins, and prunes.

HEALTHY EATING PROVEN RESULTS

Potassium is a heart healthy mineral that helps your body function properly.

Increasing potassium by eating potassium-rich foods can help lower blood pressure. Here are some potassium-rich foods to help you get more potassium.

DASH EATING PLAN

Get Active With DASH



Being more active bolsters the benefits of the DASH eating plan. Learn how to gradually move more to make physical activity part of your daily routine and your heart healthy life.

- Walking:** 30 minutes a day.
- Jogging:** 20 minutes a day.
- Cycling:** 30 minutes a day.
- Swimming:** 30 minutes a day.
- Dancing:** 30 minutes a day.
- Yoga:** 30 minutes a day.
- Strength training:** 2-3 times a week.

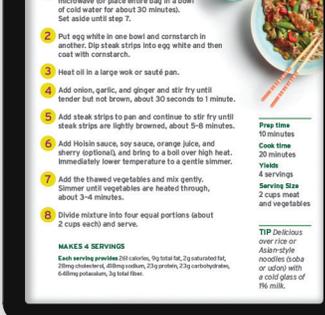
HEALTHY EATING PROVEN RESULTS

Combining the DASH eating plan and physical activity can lower high blood pressure and make your heart healthier.

Being more active bolsters the benefits of the DASH eating plan. Learn how to gradually move more to make physical activity part of your daily routine and your heart healthy life.

DASH EATING PLAN

Directions



- Thaw frozen vegetables in the microwave or place entire bag in a bowl of cold water for about 30 minutes. Set aside until step 2.
- Put egg whites in one bowl and cornstarch in another. Dip stick strips into egg white and then coat with cornstarch.
- Heat oil in a large wok or sauté pan.
- Add onion, garlic, and ginger and stir fry until tender but not brown, about 30 seconds to 1 minute.
- Add stick strips and pan continue to stir fry until stick strips are lightly browned, about 5-8 minutes.
- Add hoisin sauce, soy sauce, orange juice, and cherry (optional), and bring to a boil over high heat. Immediately lower temperature to a gentle simmer.
- Add the thawed vegetables and mix carefully. Simmer until vegetables are heated through, about 3-4 minutes.
- Divide mixture into four equal portions (about 2 cups each) and serve.

HEALTHY EATING PROVEN RESULTS

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You are an expert about DASH from either adopting it in your own life or as a health professional. Perhaps you're a physician, community health advocate, dietitian, or nutrition coach who discusses DASH with clients. Perhaps you simply want to know all of the details about DASH and why it's a proven plan. Health professionals are encouraged to use the entire collection of DASH materials based on client needs. "Why the DASH Eating Plan Works" resource provides a summary of the decades of science behind DASH, while the website delves into multiple studies and links to other medical, scientific, and governmental resources.

Why the DASH Eating Plan Works

The DASH eating plan is based on decades of scientific research and data from multiple studies. Learn about the science behind DASH and why it's so effective.

DASH Website

NHLBI has information about the DASH eating plan, clinical trials, related health topics, and downloads for all of the DASH materials.

DASH EATING PLAN

Why the DASH Eating Plan Works

What you choose to eat affects your chances of developing hypertension, otherwise known as high blood pressure. Blood pressure can be unhealthy even if it stays only slightly above the optimal level of less than 120/80 mmHg. The more your blood pressure rises above normal, the greater the health risk.

Scientists supported by the National Heart, Lung, and Blood Institute (NHLBI) have conducted multiple scientific trials since the Dietary Approaches to Stop Hypertension—or DASH eating plan—was developed more than 20 years ago. Their findings showed that blood pressures were reduced with an eating plan that emphasizes vegetables, fruits, and whole grains and includes fish, poultry, beans, nuts, and healthy oils. It limits foods that are high in saturated fat, such as fatty meats, full-fat dairy products, and tropical oils such as coconut, palm kernel, and palm oils. It is also lower in sodium compared to the typical American diet and reduces sugar-sweetened beverages and sweets.

HEALTHY EATING, PROVEN RESULTS

Scientific studies show that following DASH and eating less sodium can help you lower your blood pressure and LDL cholesterol.

The DASH eating plan follows heart healthy guidelines to limit saturated fat and trans fat. It focuses on eating more foods rich in nutrients that can help lower blood pressure—mainly minerals (like potassium, calcium, and magnesium), protein, and fiber. It includes nutrient-rich foods so that it also meets other nutrient requirements as recommended by the National Academies of Sciences, Engineering, and Medicine.

DAILY NUTRIENT LEVELS OF THE ORIGINAL DASH EATING PLAN

Total Fat	27% of calories
Saturated Fat	6% of calories
Protein	18% of calories
Carbohydrate	59% of calories
Sodium	2,300 mg*
Potassium	4,700 mg
Calcium	1,200 mg
Magnesium	500 mg
Cholesterol	150 mg
Fiber	30g

*Lower sodium to 1,500 mg for further reduction in blood pressure, if needed.

DASH EATING PLAN

The DASH Eating Plan is a heart healthy approach that has been scientifically proven to lower blood pressure and have other health benefits. To learn more, go to www.nhlbi.nih.gov/DASH.

Stir-Fried Orange Beef

Number of servings from each DASH Food Group in the suggested meal featuring this recipe

2 Grains
11% Vegetables
0 Fruits
1 Dairy
3 Meats, Fish, and Poultry
0 Multi, Seeds, and Legumes
1 1/2 Fats and Oils
0 Sweets and Added Sugars

INGREDIENTS

- 1 bag (12 oz) frozen stir-fry vegetables
- 1 tbsp peanut or vegetable oil
- 1 tbsp onion, minced (or 1/2 tbsp dried)
- 1 tbsp garlic, minced (about 2-3 cloves)
- 1 tbsp ginger, minced
- 1 egg white, lightly beaten (or substitute liquid egg white)
- 2 tbsp cornstarch
- 12 oz beef flank steak, sliced into thin strips
- 3 tbsp Hoisin sauce
- 1 tbsp lite soy sauce
- 1/4 cup orange juice
- 1 tbsp dry sherry (optional)

DIRECTIONS

- 1 Thaw frozen vegetables in the microwave (or place entire bag in a bowl of cold water for about 30 minutes). Set aside until step 7.
- 2 Put egg white in one bowl and cornstarch in another. Dip steak strips into egg white and then coat with cornstarch.
- 3 Heat oil in a large wok or sauté pan.
- 4 Add onion, garlic, and ginger and stir fry until tender but not brown, about 30 seconds to 1 minute.
- 5 Add steak strips to pan and continue to stir fry until steak strips are lightly browned, about 5-8 minutes.
- 6 Add Hoisin sauce, soy sauce, orange juice, and sherry (optional), and bring to a boil over high heat. Immediately lower temperature to a gentle simmer.

Prep time
10 minutes

Cook time
20 minutes

Yields

DASH EATING PLAN

Tools for a Healthy Life

HEALTHY EATING, PROVEN RESULTS

The NHLBI has developed many user-friendly materials to help you follow the DASH eating plan, understand how it works, try new foods, and make smart choices on your journey to a healthy lifestyle.

THE SCIENCE BEHIND DASH

Get information about high blood pressure along with scientific research on how DASH works.

What is High Blood Pressure?

Learn the basics about high blood pressure—what it is, who is at risk, how to understand the numbers—so that you can take steps to get it under control.

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What is High Blood Pressure?



Every time your heart beats, it pumps blood through vessels, called arteries, to the rest of your body. Your blood pressure is how hard your blood pushes against the walls of the arteries. If your blood flows at higher than normal pressure, you may have high blood pressure, also known as hypertension. If you have high blood pressure, you aren't alone. High blood pressure affects nearly half of U.S. adults. Many people don't even know they have it, which is why it's so important to have your blood pressure checked at least once a year.

Understanding high blood pressure
Blood pressure rises and falls during the day. But when it stays elevated over time, it's called high blood pressure. It's dangerous because the heart is working too hard, and the force of the blood flow can harm arteries and organs. High

HEALTHY EATING, PROVEN RESULTS

The DASH eating plan can help you control high blood pressure and achieve and maintain a healthy weight.

Blood pressure is a major risk factor for heart disease, which is the leading cause of death in the United States. High blood pressure often has no warning signs or symptoms. That's why it's called a "silent killer." If uncontrolled, it harms your heart and contributes to kidney disease, stroke, blindness, and dementia.

Managing high blood pressure
Sometimes health care providers prescribe medication to manage high blood pressure, which should be taken as directed. If your blood pressure isn't too high, you may be able to control it entirely by following the DASH eating plan, losing even just a little weight, getting regular physical activity, mindfully managing stress, cutting down on alcohol, and not smoking. Learn more about high blood pressure at www.nhlbi.nih.gov/hypertension.

RISK FACTORS FOR HIGH BLOOD PRESSURE

- Age:** Blood pressure tends to get higher as we get older. Our blood vessels naturally thicken and stiffen over time. But many younger people, including children and teens, develop high blood pressure, too.
- Sex:** Before age 40, more men than women have high blood pressure. After age 40, more women than men have it.
- Race or ethnicity:** White anyone can have high blood pressure. African Americans tend to get it at a younger age. Among Hispanic adults, people of Cuban, Puerto Rican, and Dominican backgrounds are at higher risk.
- Lifestyle habits:** Eating unhealthy foods, especially those with too much salt, drinking too much alcohol or caffeine, being obese, smoking, and not getting enough exercise can raise blood pressure.

DASH EATING PLAN

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DASH EATING PLAN

Why the DASH Eating Plan Works



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HEALTHY EATING, PROVEN RESULTS

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DASH WEB RESOURCES

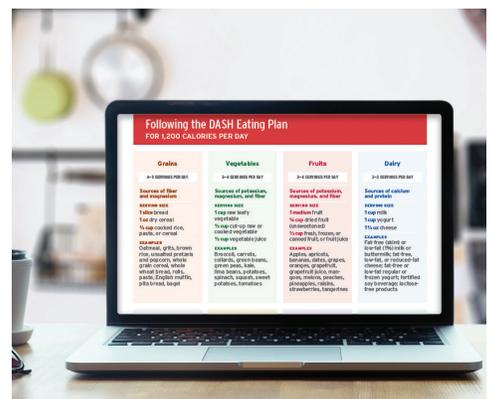
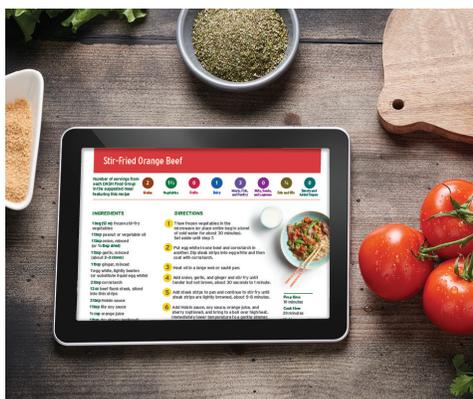
Comprehensive websites keep you current about how to live a healthy life with DASH.

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National Heart, Lung, and Blood Institute

Tools for a Healthy Life

THE HEALTHY BASICS OF DASH

Start your journey to healthy living on DASH with these tools to inform, inspire and motivate.

Getting Started on DASH

Learn how to take the first steps to adopt the DASH eating plan—assess where you are, discuss medication, make it part of your everyday life.

Making the Move to DASH

The DASH eating plan is explained in a single page of simple tips to make the plan work for you—gradually, healthfully, and successfully.

DASH EATING PLAN

Getting Started on DASH

- 1. Assess where you are now.**
The DASH eating plan requires no special foods and has no hard-to-follow recipes. One way to begin is by using the free, interactive, online Body Weight Planner (indk.nih.gov/bwp/) to find out how many calories you need per day to maintain or reach your goal weight. Then fill in the What's on Your Plate? worksheet for a few days and see how your current food habits compare with the DASH plan. This will help you see what changes you need to make.
- 2. Discuss medication with your doctor.**
If you take medication to control high blood pressure or cholesterol, you should not stop using it. Follow the DASH eating plan and talk with your doctor about your medication treatment as part of an overall plan for wellness.
- 3. Make DASH a part of your healthy life.**
The DASH eating plan along with other lifestyle changes can help you control your blood pressure and lower blood cholesterol. Important lifestyle recommendations include: achieve and maintain a healthy weight, get regular physical activity, and, if you drink alcohol, do so in moderation (up to one drink per day for women and up to two drinks per day for men).
- 4. DASH is for everyone in the family.**
Start with the meal plans in 4 Weeks With the DASH Eating Plan. If you want to follow the menus similar to those used in the DASH trial—then make up your own using your favorite foods. In fact, your entire family can eat meals using the DASH eating plan because it can be adapted to meet varied nutritional needs, food preferences, and dietary requirements.
- 5. Don't worry.**
Remember that on some days the foods you eat may add up to more than the recommended servings from one food group and less from another. Or, you may have too much sodium on a particular day. Just try your best to keep the average of several days close to the DASH eating plan and the sodium level recommended for you.

HEALTHY EATING, PROVEN RESULTS

It's easy to adopt the DASH eating plan. Even small changes made gradually lead to significant benefits. Follow these steps to begin a healthy lifestyle for a lifetime.

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National Heart, Lung, and Blood Institute

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DASH EATING PLAN

Making the Move to DASH

Change gradually.

- 1 If you now eat one or two servings of vegetables a day, add a serving at lunch and another at dinner.
- 2 If you don't eat fruit now or have juice only at breakfast, add a serving of fruit to your meals or have it as a snack.
- 3 Gradually increase your use of milk, yogurt, and cheese to three servings a day. For example, drink milk with lunch or dinner, instead of soda, sugar-sweetened tea, or alcohol.
- 4 Choose fat-free or low-fat (1 percent) milk, yogurt, and reduced-fat cheese to reduce your intake of saturated fat, cholesterol, and calories and to increase your calcium.
- 5 Read the Nutrition Facts label on frozen and prepared meals, pizza, and desserts to choose those lowest in saturated fat and trans fat.

Vary your proteins.

- 1 Choose lean cuts of meat and remove skin from poultry.
- 2 Check the labels on ground meats and poultry and select those with lowest saturated fat.
- 3 Serve fish instead of meat or poultry once or twice each week.
- 4 Include two or more vegetarian (meatless) meals each week.

HEALTHY EATING, PROVEN RESULTS

Moving to heart healthy eating may seem difficult, but it doesn't have to be. Here are some tips to make DASH work for you.

- 1 Aim to fill 1/3 your plate with vegetables and fruits, 1/3 with whole grains, and 1/3 with fish, lean meat, poultry, or beans.
- 2 Add extra vegetables to casseroles, pasta, and stir-fry dishes.

Select nutritious, tasty snacks.

- 1 Fruits offer great taste and variety. Use fruits canned in their own juice or packed in water. Fresh fruits are fast and easy and dried fruits are a good choice to carry with you or to have in the car.
- 2 Try these snack ideas: unsalted rice cakes; nuts mixed with raisins; graham crackers; fat-free and low-fat yogurt; popcorn with no salt or butter added; raw vegetables.

Make healthy substitutions.

- 1 Choose whole grain foods for most grains servings to get more nutrients, such as minerals and fiber. For example, choose whole wheat bread or whole grain cereals.
- 2 If you have trouble digesting milk and milk products, try taking lactase enzyme pills with the milk products. Or, buy lactose-free milk.
- 3 If you are allergic to nuts, use beans or seeds (such as sunflower, flax, or sesame seeds).

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National Heart, Lung, and Blood Institute

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Tips to Keep on Track

Follow these steps to help you get back on track even if you slip from the DASH eating plan for a few days.

Get Active With DASH

Being more active bolsters the benefits of the DASH eating plan. Learn how to gradually move more to make physical activity part of your daily routine and your heart healthy life.

DASH EATING PLAN

Tips to Keep on Track

- 1. Ask yourself why you got off track.**
Was it at a party? Were you feeling stress at home or work? Find out what triggered your sidetrack and start again with the DASH plan.
- 2. Don't worry about a slip.**
Everyone slips—especially when learning something new. Remember that changing your lifestyle is a long-term process.
- 3. See if you tried to do too much at once.**
Often, those starting a new lifestyle try to change too much at once. Instead, change one or two things at a time. Slowly but surely is the best way to succeed.
- 4. Break the process down into small steps.**
This not only keeps you from trying to do too much at once, but also keeps the changes easier. Break complex goals into simpler, attainable steps.
- 5. Write it down.**
Learn what your daily calorie level should be to maintain or reach your goal weight by using the free, interactive, online Body Weight Planner (indk.nih.gov/bwp/). Then use the What's on Your Plate? worksheet to keep track of what you eat and drink. Knowing what your goal is and then keeping track for several days can help you succeed. You may find, for instance, that you eat sugary or salty snacks while watching television. If so, try keeping healthier snacks on hand. This record also helps you be sure you're getting enough of each food group each day.
- 6. Celebrate success.**
Treat yourself to a nonfood reward for your accomplishments. You could see a new movie, get a massage, or buy yourself flowers or a fun gift.

HEALTHY EATING, PROVEN RESULTS

The DASH eating plan is a new way of eating—for a lifetime. If you slip from the eating plan for a few days, don't let it keep you from reaching your health goals. Get back on track.

DASH EATING PLAN

The DASH Eating Plan is a heart healthy approach that has been scientifically proven to lower blood pressure and have other health benefits. To learn more, go to www.nhlbi.nih.gov/DASH.

National Heart, Lung, and Blood Institute

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DASH EATING PLAN

Get Active With DASH

Making physical activity part of your daily life while following the DASH eating plan multiplies the health benefits. Being active can lower high blood pressure, improve cholesterol and blood glucose levels, protect your heart, improve blood flow, and help you manage stress. The good news is there are many ways to make moving more part of your life gradually.

Types of physical activity
The four main types of physical activity are aerobic, muscle-strengthening, bone-strengthening, and stretching.

- 1 **Aerobic.** Also called endurance activity, aerobic activity benefits your heart and lungs the most. Brisk walking, running, bicycling, jumping rope, and swimming are all examples.
- 2 **Muscle-strengthening.** Resistance training and weight lifting improve your power and endurance. You can also use elastic bands or body weight for resistance, like doing push-ups.
- 3 **Bone-strengthening.** Weight-bearing activities such as running, walking, jumping rope, and sit-ups weights, make your bones strong.
- 4 **Stretching.** Stretching improves your flexibility and your ability to fully move your joints making all other activity possible. Touching your toes, side stretches, and yoga are some examples.

HEALTHY EATING, PROVEN RESULTS

Combining the DASH eating plan and physical activity can lower high blood pressure and make your heart healthier.

How much activity is needed?
Adults should get at least 2 1/2 hours of physical activity a week to help lower and control blood pressure. That's just 30 minutes a day, 5 days a week. If you don't have high blood pressure, being physically active can help keep it that way.

Increase activity to multiply the benefits
If you have high blood pressure, the benefits of physical activity are actually greater than in those with normal blood pressure. Both aerobic and muscle-strengthening activities are beneficial. Moderate-intensity activity for about 90 minutes a week or 40 minutes of vigorous-intensity activity helps to substantially lower your risk of heart disease. If you have high blood pressure, work with your doctor as you increase your physical activity, as adjustments to medication may be needed.

Everyone can benefit by being active
If you don't have high blood pressure but still aren't active, you can benefit from increasing your physical activity to recommended levels. Physical activity can help lower blood pressure and reduce your risk of becoming overweight or obese or developing diabetes.

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National Heart, Lung, and Blood Institute

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Tools for a Healthy Life

DASH NUTRITION PLANNING

Learn how to shop for healthy foods and easy tips for dining out and everyday choices on DASH.

Nutrition Facts Label Guide

Use this graphical insert to learn about the parts of the Nutrition Facts label and other packaging labels so you can make informed choices based on what's in the food you're buying.

Getting More Potassium

Learn about this heart healthy mineral's benefits and find a list of potassium-rich foods to help lower high blood pressure.

DASH EATING PLAN

Nutrition Facts Label Guide

Learning how to read labels on food packaging can help you make quick, informed decisions about what foods to choose.

While fresh fruits and vegetables, whole grains, and other less processed foods are important to a healthy diet, you can make smart choices about pickled or processed foods when you know what to look for. The array of items on the grocery store shelf can be confusing, but food labels can help you make healthier choices, such as items lower in sodium, saturated fat, sugar, and calories and higher in potassium and calcium.

The DASH eating plan can lower high blood pressure in as fast as two weeks. Eating less sodium creates even greater heart healthy benefits. Look for the sodium content in milligrams and the Percent Daily Value on Nutrition Facts labels and aim for foods that are less than 5 percent of the Daily Value of sodium. Foods with 20 percent or more Daily Value of sodium are considered high and can increase your blood pressure.

HEALTHY EATING, PROVEN RESULTS

Learning how to read labels on food packaging can help you make quick, informed decisions about what foods to choose.

Low-sodium canned diced tomatoes

Nutrition Facts	
1 1/2 servings per container	
Serving Size 1/2 cup (130g)	
Amount Per Serving	
Calories	25
Total Fat 0g	0%
Saturated Fat 0g	0%
Sodium 10mg	2%
Total Carbohydrate 1g	2%
Dietary Fiber 1g	4%
Total Sugars 0g	0%
Protein 1g	2%
Vitamin A 400IU	8%
Vitamin C 1mg	1%
Calcium 5mg	0%
Iron 0mg	0%
Potassium 200mg	4%

Canned diced tomatoes

Nutrition Facts	
1 1/2 servings per container	
Serving Size 1/2 cup (130g)	
Amount Per Serving	
Calories	25
Total Fat 0g	0%
Saturated Fat 0g	0%
Sodium 10mg	2%
Total Carbohydrate 1g	2%
Dietary Fiber 1g	4%
Total Sugars 0g	0%
Protein 1g	2%
Vitamin A 400IU	8%
Vitamin C 1mg	1%
Calcium 5mg	0%
Iron 0mg	0%
Potassium 200mg	4%

Compare the total labels of these two versions of canned tomatoes. The regular canned tomatoes (left) have 10 times as much sodium as the low-sodium version (right).

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DASH EATING PLAN

Getting More Potassium

Increasing potassium by eating potassium-rich food is recommended for adults with high blood pressure who are otherwise healthy. While salt substitutes containing potassium are sometimes needed if you are on medication for high blood pressure, these supplements can be harmful to people with certain medical conditions. Ask your doctor before trying salt substitutes or supplements.

Fortunately, many healthy foods in the DASH eating plan are naturally rich in potassium, with vegetables and fruits being especially good sources.

Vegetables
Baked potatoes are easy to prepare and one of the best sources of potassium. One medium baked potato with the skin on has 941 mg of potassium. Top with herbs or salt-free seasonings so you can avoid any extra sodium.

HEALTHY EATING, PROVEN RESULTS

Potassium is a heart healthy mineral that helps your body function properly and keeps blood pressure levels healthy.

Fruits
Many people know that bananas are a good source of potassium with 422 mg in a medium one, but dried fruits like peaches and apricots are also loaded with potassium and easy to have on hand for healthy snacks.

Dairy
One cup of plain, non-fat yogurt has 679 mg of potassium. Combine with fresh fruit like chopped bananas to add flavor and even more potassium. It can also be used as a dip, condiment, or substitution for high-fat dairy.

Fish
Eating fish high in omega-3 fatty acids about twice a week is recommended for heart health. Some fish are also good sources of potassium, wild Atlantic salmon being one of the best at 534 mg per 3-ounce serving.

Summer Breeze Smoothie
Non-fat plain yogurt, banana, strawberries, canned pineapple and a touch of vanilla make a refreshing treat.

Spicy Baked Fish
A salmon fillet, olive oil, and salt-free spices seasoned baked for 15 minutes tastes easy, and delicious.

Garlic Mashed Potatoes
No added salt or fat is used in this easy-to-prepare, fatty potato dish that can even be made in the microwave.

Limas and Spinach
This delicious dish delivers 402 mg potassium per serving by combining two potassium powerhouses.

To find these and other potassium-rich recipes, visit healthyeating.nhlbi.nih.gov.

DASH EATING PLAN The DASH Eating Plan is a heart healthy approach that has been scientifically proven to lower blood pressure and have other health benefits. To learn more, go to www.nhlbi.nih.gov/DASH.

Tips To Reduce Salt and Sodium

Complete with tips for dining out and an easy-to-read chart about sodium content in several foods, learn how to further lower sodium and gain even bigger heart healthy benefits.

Tips to Lowering Calories on DASH

Read about easy food substitutions to help you lose weight and maintain it once you do.

DASH EATING PLAN

Tips to Reduce Salt and Sodium

Studies have found that the DASH eating plan can lower blood pressure in as fast as 2 weeks. Eating less sodium creates even bigger heart healthy benefits.

Eat your veggies.
Choose plain fresh, frozen, or canned (low-sodium or no-salt-added) vegetables and season them yourself.

Fresh is best.
Choose fresh or frozen skinless poultry, fish, and lean cuts of meat rather than those that are marinated, canned, smoked, broiled, or cured.

Go "low or no."
Check the Nutrition Facts labels to compare sodium levels in foods. Choose low- or reduced-sodium, or no-salt-added versions of foods.

Pay attention to preparation.
Limit cured foods (such as bacon and ham) foods packed in brine (such as pickles, pickled vegetables, olives, and sauerkraut), and condiments (such as mustard, horseradish, ketchup, and barbecue sauce). Limit even lower sodium versions of soy sauce and teriyaki sauce, which should be used as sparingly as table salt.

HEALTHY EATING, PROVEN RESULTS

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Subtract, don't add.
Canned foods such as tuna and beans can be rinsed to remove some of the sodium. Cook rice, pasta, and hot cereals without salt. Cut back on instant or flavored rice, pasta, and cereal mixes, which usually have added salt.

Limit salty processed foods.
Skip or limit frozen dinners and mixed dishes such as pizza, packaged mixes, canned soups or broths, and salad dressings, which often have a lot of sodium. Prepare and eat more foods at home, where you can control how much sodium is added.

Spice it up.
Boost flavor with herbs, spices, lemon, lime, vinegar, or salt-free seasoning blends instead of salt or salty seasonings like soy sauce, spice blends, or soup mixes. Start by cutting salt in half and work your way toward healthy substitutes.

EASY TIPS FOR DINING OUT

- Move the salt shaker away.** This simple first step could become second nature.
- Research the restaurant's menu before going out.** Check online nutrition information and then read these on the menu: pickled, cured, smoked, soy sauce.
- Make special requests.** Ask that your meal be prepared without added salt, MSG, or salty ingredients such as bacon, pickles, olives, and cheese.
- Easy does it on the condiments.** A little goes a long way for mustard, ketchup, horseradish, pickles, and sauces with salt-containing ingredients.
- Go for healthy appetizers and side dishes.** Choose fruits or vegetables instead of salty snacks, chips, or fries.

EASY TIPS FOR DINING OUT

- To increase fruits—** Eat plain oatmeal with fresh fruit instead of sugary cereal for breakfast.
- To increase vegetables and reduce meat—** Have a hamburger that's 3 ounces of meat instead of 6 ounces. Serve with 1/2 cup of carrots or 1 cup of spinach.
- To increase fat-free or low-fat milk products—** Have 1/2 cup serving of low-fat frozen yogurt instead of full-fat ice cream.
- If you're lactose intolerant,** have small, frequent dairy products, yogurt, cheese, lactose-free, low-fat, or fat-free milk.

DASH EATING PLAN The DASH Eating Plan is a heart healthy approach that has been scientifically proven to lower blood pressure and have other health benefits. To learn more, go to www.nhlbi.nih.gov/DASH.

DASH EATING PLAN

Tips to Lowering Calories on DASH

The DASH eating plan may help you lose weight. It's rich in lower-calorie foods, such as fruits and vegetables, which provide a rich source of nutrients and help make you feel full longer. The best way to take off pounds is to do so gradually—get more physical activity and eat a balanced diet lower in calories and unhealthy fat. Following the DASH eating plan and reducing your total daily calories over time can help you maintain a healthy weight.

The DASH eating plan is rich in fiber, which makes you feel full and is good for your body, but may cause some bloating and diarrhea at first. To avoid these problems, gradually increase the amount of fruit, vegetables, and whole grain foods that you eat over several weeks and drink more water. Your body should adjust, and you'll be on your way to a life of healthy eating.

HEALTHY EATING, PROVEN RESULTS

Making simple substitutions can cut calories and add up to a big difference in your weight as you aim for your DASH goals.

Tips for reducing calories

- Reduce the amount of meat that you eat while increasing the amount of fruits, vegetables, whole grains, and cooked dry beans.
- Substitute low-calorie foods, such as when snacking (choose fruits or vegetables instead of sweets and desserts) or drinking (choose water or seltzer water instead of soda or juice).
- Use fresh or dried herbs and sodium-free spices in cooking instead of extra condiments to add flavor to dishes.
- Put a bowl of fruit on the kitchen counter and make a family agreement not to have chips or other high-calorie, high-sodium snacks.

Learn more about living a heart healthy life and maintaining a healthy weight at www.nhlbi.nih.gov/health-topics/heart-healthy-living.

REPLACE HIGH CALORIE FOODS WITH LOWER CALORIE CHOICES

- To increase fruits—** Eat plain oatmeal with fresh fruit instead of sugary cereal for breakfast.
- To increase vegetables and reduce meat—** Have a hamburger that's 3 ounces of meat instead of 6 ounces. Serve with 1/2 cup of carrots or 1 cup of spinach.
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Tools for a Healthy Life

DASH MENUS AND WORKSHEETS

Take the mystery out of weekly meal planning and monitor your individual progress on DASH.

A Week With the DASH Eating Plan
This comprehensive guide provides a complete set of menus to help you plan healthy, delicious meals for a week.

DASH EATING PLAN

A Week With the DASH Eating Plan

The DASH eating plan requires no special foods and has no hard-to-find recipes. The following DASH menus allow you to plan healthy, nutritious meals for a week. There are a variety of delicious whole foods that fill you up while lowering your blood pressure and cholesterol levels. You'll find plenty of fruits and vegetables, fish, poultry, lean meats, beans, nuts, whole grains and low-fat dairy.

Built around the recommended number of servings in each of the DASH food groups, these menus sometimes call for you to use lower sodium, low-fat, fat-free, or reduced-fat versions of products. These menus are based on 2,000 calories a day. Serving sizes should be increased or decreased for other calorie levels. Daily sodium levels are either 2,300 milligrams or, by making the suggested changes, 1,500 milligrams.

The total daily servings by DASH food group are listed at the top. Next to each food item on the daily menu, you can check the exact serving amount for that item.

HEALTHY EATING, PROVEN RESULTS

Eating a variety of delicious foods and cutting back on salt can help lower your blood pressure. What are you waiting for? Take control of your heart health with the DASH eating plan.

These menus give examples of heart healthy meals. How can you create your own and make the DASH eating plan part of your daily life?

- Start by learning how your current food habits compare with the DASH eating plan by using the What's on Your Plate[®] worksheet for a few days.
- Explore the Heart Healthy Eating webpage (hearthealthy eating.nhlbi.nih.gov) to try new foods or learn how to make old favorites heart healthy.
- Choose your favorite foods from each of the DASH food groups based on your daily calorie needs to make your own healthy menus.
- Don't worry if some days are off target for your daily totals. Just try your best to keep the average of several days close to the recommended servings and sodium levels.

Following the DASH eating plan means you'll be eating delicious food that is also good for you. It can help you control your blood pressure, manage your weight, and lower LDL (bad) cholesterol levels—keeping your heart healthy.

KEY TO FOOD GROUPS: Grains, Vegetables, Fruits, Dairy, Meats, Fish, and Poultry, Nuts, Seeds, and Legumes, Fats and Oils, Beverages and Alcoholic Beverages

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DAY 1 A Week With DASH

The menu below contains the recommended number of daily servings from each DASH food group as well as a healthy 2,300 mg of sodium. You can easily reduce the sodium in this menu to 1,500 mg by substituting some key food items, which are highlighted in yellow. Just follow the tips.

The Day 1 menu contains this number of servings from each DASH Food Group: Grains (5), Vegetables (5), Fruits (6), Dairy (2 1/2), Meats, Fish, and Poultry (6), Nuts, Seeds, and Legumes (1 1/2), Fats and Oils (3 1/2), and Sweet and Added Sugars (0).

MEAL	ITEM	SODIUM (MG)
BREAKFAST	1/2 cup bran flakes cereal	220
	1 medium banana	1
	1 cup low-fat milk	107
	1 slice whole wheat bread	149
	1 tsp soft (but) margarine	26
1 cup orange juice	5	
LUNCH	1/2 cup chicken salad	179
	2 slices whole wheat bread	299
	1 Tbsp Dijon mustard	373
	1/2 cup fresh cucumber slices	1
	1/2 cup tomato wedges	5
1 Tbsp sunflower seeds	0	
1 tsp Italian dressing, low calorie	43	
1/2 cup fruit cocktail, juice pack	5	
DINNER	1/2 roast beef, eye of the round	35
	2 Tbsp beef gravy, fat-free	165
	1 cup green beans, sautéed with: 1/2 cup carrots	12
	1 small baked potato	14
	1 Tbsp sour cream, fat-free	21
1/2 cup natural cheddar cheese, reduced fat	67	
1 Tbsp chopped scallions	1	
1 small whole wheat roll	148	
1 tsp soft (but) margarine	26	
1 small apple	1	
1 cup low-fat milk	107	
SNACKS	1/2 cup almonds, unsalted	0
	1/2 cup raisins	4
	1/2 cup fruit yogurt, fat-free, no sugar added	85
	TOTAL SODIUM (MG) FOR DAY	2,300

219 mg less sodium by choosing whole cereal instead of bran flakes.

59 mg less sodium by making the chicken salad without salt.

196 mg less sodium by using regular mustard instead of Dijon mustard.

66 mg less sodium by using low-sodium reduced-fat cheddar cheese.

26 mg less sodium by choosing margarine.

Total nutrients per day: 2,042 calories, 63 g total fat, 28% calories from fat, 135 g carbohydrate, 46 g protein, 284 g potassium, 164 g protein, 2,020 mg calcium, 54 mg magnesium, 49 mg potassium, 37 g fiber.

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What's on Your Plate?

These worksheets help you track what you eat and drink and describe serving sizes in each of the major food groups. They can help you assess your current eating habits or monitor your efforts with DASH based on your caloric needs ranging from 1,200 to 2,600 calories per day.

What's on Your Plate? 1,200 calories a day

Learn how your current food habits compare with the DASH eating plan by using this worksheet for 1-2 days. List the food amounts, calories, and sodium for all you eat and drink on a given day. Track your servings by checking off the corresponding number of circles.

To find your specific daily calorie needs, use the Body Weight Planner (niddk.nih.gov/bwpl). Find the information about calories and the amount of sodium in foods on nutrition facts labels, mobile applications, or online.

TODAY'S DATE / /

MEAL	FOOD GROUP	CALORIES	SODIUM (MG)	DAILY SERVINGS
BREAKFAST	Grains			0/5
	Vegetables			0/5
	Fruits			0/6
	Dairy (fat-free/low-fat)			0/2 1/2
	Lean Meats, Fish, and Poultry			0/6
LUNCH	Grains (mostly whole grains)			0/4-5
	Vegetables			0/5
	Fruits			0/6
	Dairy (fat-free/low-fat)			0/2 1/2
	Lean Meats, Fish, and Poultry			0/6
DINNER	Grains (mostly whole grains)			0/4-5
	Vegetables			0/5
	Fruits			0/6
	Dairy (fat-free/low-fat)			0/2 1/2
	Lean Meats, Fish, and Poultry			0/6
SNACKS	Grains (mostly whole grains)			0/4-5
	Vegetables			0/5
	Fruits			0/6
	Dairy (fat-free/low-fat)			0/2 1/2
	Lean Meats, Fish, and Poultry			0/6

Total your numbers. Your daily targets are 1,200 calories and a sodium level between 1,500 and 2,300 milligrams. If you miss your targets, see A Week With DASH for menu ideas to get closer to your goals.

TOTAL CALORIES _____ **TOTAL SODIUM (MG)** _____

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Following the DASH Eating Plan FOR 1,200 CALORIES PER DAY

Grains
4-5 SERVINGS PER DAY

Sources of fiber and magnesium

SERVING SIZE
1 slice bread
1/2 cup cereal
1/2 cup cooked rice, pasta, or cereal

EXAMPLES
Oatmeal, grits, brown rice, unsalted pretzels and popcorn, whole grain cereal, whole wheat bread, rolls, pasta, English muffin, pita bread, bagel

Vegetables
3-4 SERVINGS PER DAY

Sources of potassium, magnesium, and fiber

SERVING SIZE
1 cup raw leafy vegetable
1/2 cup cut-up raw or cooked vegetable
1/2 cup vegetable juice

EXAMPLES
Broccoli, carrots, collards, green beans, green peas, kale, lima beans, potatoes, spinach, squash, sweet potatoes, tomatoes

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MORE INFORMATION

NHLBI Center for Health Information
P.O. Box 30105, Bethesda, MD 20824-0105
nhlbiinfo@nhlbi.nih.gov
1-877-NHLBI4U (1-877-645-2448)
For access to free Telecommunications Relay Services (TRS), dial 7-1-1 on your telephone.

To learn more about high blood pressure, the DASH eating plan, and NHLBI research in this area, visit NHLBI's high blood pressure webpage: www.nhlbi.nih.gov/hypertension.

DASH EATING PLAN

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