

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 1

New to DASH

LEARN HOW TO GET STARTED

You have just been diagnosed with high blood pressure and don't know where to begin. You are ready to make a change but it all seems so overwhelming. Everywhere you turn there are quick-fix diets and complicated, expensive eating plans with special foods and many restrictions. Perhaps you discovered DASH through a web search because you are pre-hypertensive and want to learn more about prevention, or maybe your doctor told you to learn more about DASH. Understanding what is happening in your body is the first step, with gradual and easy steps to follow.

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.

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.

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 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.

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.

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National Heart,
Lung,
and Blood Institute

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 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

The DASH eating plan requires no special foods or cooking skills. Just follow these recipes. The following DASH eating plan provides a variety of delicious white foods and whole grains, plus plenty of fruits, vegetables, and healthy fats.

Baked whole grain rolls

Kidney beans

Walnuts

Bell pepper

Chicken

Yogurt

Rosemary

Blueberries

KEY TO FOOD GROUPS

- Fruits
- Vegetables
- Grains
- Protein foods
- Healthy fats
- Low-fat, nonfat dairy
- Sweets
- Oils
- Low and No Salt

DASH EATING PLAN

The DASH Eating Plan is a healthy eating plan that can help you lose weight and lower your blood pressure. One meal plan is provided for each day of the week. Each meal plan includes a breakfast, lunch, dinner, and a few snacks. The meal plans are designed to provide a variety of healthy foods and to help you eat a balanced diet.

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 health with the DASH eating plan!

These meals give examples of heart healthy meals. Can you create your own meal plan that fits your diet?

- 1 Start by learning how your current eating habits compare to the DASH eating plan by using the "What's in Your Plate?" tool.
- 2 Capture the Heart Healthy Eating Habits checklist to help you try new foods and learn how to prepare them.
- 3 Choose your favorite meals from each of the DASH food groups based on your personal preferences and your own unique health needs.
- 4 Make sure your meals are off target for your daily totals. Just add more fruits, vegetables, and fiber several days each week to the recommended amounts.

Following the DASH eating plan means you'll be eating delicious food that's good for you. It's also good for your weight, your blood pressure, and your heart.

NIH
National Institutes of Health
NIH.gov/nhlbi

DASH EATING PLAN

Getting More Potassium



salmon



carrots



baked potato



avocado

Increasing potassium by eating potassium-rich food is recommended for people with high blood pressure who are otherwise healthy. While salt substitutes can help reduce sodium sometimes, if needed, you may want to know that some salt substitutes can be harmful to people with hypertension if taken before trying salt substitutes.

Fortunately, many healthy foods are potassium-rich, including fruits, vegetables, whole grains, and low-fat dairy products.

Vegetables
Baked potatoes are easy to prepare and are a good source of potassium. One medium baked potato with toppings like sour cream, onions, or toppings like salsa, beans, or cheese provides about 1,000 mg of potassium. Top with herbs or oil and fresh seaweed so you can add even more potassium.

Fish
Eating fish at least 3 times a week is important for heart health. Some fish are also rich in potassium. Salmon, for example, has 1,000 mg per 3.5-ounce serving.

Limes and Spinach
Limes and spinach are both excellent sources of potassium per serving by containing twice as much potassium as a baked potato.

Summer Greens Smoothie
Smoothies made from strawberries, kiwi, and a touch of vanilla make a delicious smoothie.

Salty Baked Fish
Baked fish is a great source of omega-3 fatty acids, which help reduce triglycerides and lower blood pressure. It's also a good source of potassium.

Garlic Mashed Potatoes
Garlic mashed potatoes are a great way to add potassium to your meal. You can add some extra potassium by adding a few extra cloves of garlic.

To find these and other potassium-rich recipes, visit www.nhlbi.nih.gov/dash.

HEALTHY EATING, PROVEN RESULTS

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

Frutta
Many people know that bananas are a good source of potassium with about 422 mg in a medium, well-dried banana. But dried fruit is also loaded with potassium and easy to eat when you're on the go.

Dairy
One cup of lowfat milk has about 300 mg of potassium. If you like yogurt, look for plain yogurt with added potassium. This is a great choice because it's a good source of calcium, too. It can also be used as a dip, condiment, or dessert for healthy snacking.

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To find these and other potassium-rich recipes, visit www.nhlbi.nih.gov/dash.

DIRECTIONS

- Thaw frozen vegetables in the microwave or refrigerate in a bowl of cold water for about 30 minutes. Set aside until step 7.
- Put egg white in a large wok or sauté pan. Dip steak 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 3 minutes.
- Add steak strips to pan and continue to stir fry until steak strips are lightly browned, about 5-6 minutes.
- Add hoisin sauce, soy sauce, orange juice, and dried orange peel and bring to a boil over medium heat. Immediately lower temperature to a gentle simmer.
- Add the thawed vegetables and mix gently. Simmer until vegetables are heated through, about 3-4 minutes.
- Divide mixture into four equal portions (about 2 cups each) and serve.

MAKES 4 SERVINGS

EACH SERVING provides 280 calories, 9g total fat, 2g saturated fat, 72mg cholesterol, 415mg sodium, 23g protein, 2.3g carbohydrates, 6-8g fiber, 3g sugars, and 0g added sugars.

VEGETABLES (1 cup)
FRUITS (1 cup)
DAIRY (1 cup)
MINT, FISH, AND POULTRY (1 cup)
BARS, SNACKS, AND LEGUMES (1 cup)
FATS AND OILS (1 cup)
SWEETS AND ADDED SUGARS (0 cup)

Prep time
10 minutes

Cook time
20 minutes

Yield
4 servings

Serving size
2 cups each
and vegetables

TIP: Delicious over rice or Asian-style noodles (nudah or soton) with a cold glass of milk.

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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

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.

HEALTHY EATING, PROVEN RESULTS

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

DAILY NUTRIENT LEVELS OF THE ORIGINAL DASH EATING PLAN

Total Fat	27% of calories
Saturated fat	10% of calories
Protein	18% of calories
Carbohydrate	55% of calories
Sodium	2,300 mg*
Potassium	4,700 mg
Calcium	1,250 mg
Magnesium	500 mg
Cholesterol	150 mg
Fiber	30g

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

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

Stir-Fried Orange Beef

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

Grains	2
Vegetables	1½
Fruits	0
Dairy	1
Meat, Fish, and Poultry	3
Nuts, Seeds, and Legumes	0
Fats and Oils	½
Sugars and Added Sugars	0

INGREDIENTS

- 1 bag (16 oz) frozen stir-fry vegetables
- 1 tbsp peanut or vegetable oil
- 1½ tsp onion, minced (or ½ tsp dried)
- 1½ tsp garlic, minced (about 2–3 cloves)
- 1½ tsp ginger, minced
- 1 egg white, lightly beaten (or 2 large liquid egg whites)
- 2 tbsp cornstarch
- 12 oz beef flank steak, sliced into thin strips
- 3 tbsp Hoisin sauce
- 1 tbsp lite soy sauce
- ½ cup orange juice
- 1 tbsp dry sherry (optional)

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 7.
- Put vegetables in a bowl and cornstarch in another. Dip steak 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 steak strips to pan and continue to stir fry until steak strips are lightly browned, about 5–8 minutes.
- 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
Yield: 4

DASH EATING PLAN

Tools for a Healthy Life

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.

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 EATING PLAN

What is High Blood Pressure?

Every time your heart beats, it pumps blood through vessels, called arteries, to the rest of your body. High blood pressure is how hard your blood pushes against the walls of the arteries. If your blood pressure stays too high over time, you may have high blood pressure, also known as hypertension. If you have high blood pressure, you aren't alone. It 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 it means the heart is working too hard, and the force of the blood flow can harm arteries and organs. High 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." It damages the heart, blood vessels, and contributes to kidney disease, stroke, blindness, and dementia.

Managing high blood pressure: Sometimes health care providers will prescribe medicine to treat high blood pressure, which should be taken as directed. If your blood pressure isn't too high, you can manage it mostly on your own 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, especially children and teens, develop high blood pressure, too.

Sex: Before age 40, more men than women have high blood pressure. After age 40, most women have more than men do.

Race or ethnicity: White people often have high blood pressure, African Americans tend to get it at a younger age. Among African Americans, people of Puerto Rican, and Dominican backgrounds are at higher risk.

Lifestyle habits: Eating unhealthy foods, especially those with too much salt, drinking too much alcohol, smoking, being physically inactive, and not getting enough exercise can raise blood pressure.

Genes: High blood pressure often runs in families.

Health conditions: Some diseases and health problems can increase blood pressure and have other health benefits. To learn more, go to www.nhlbi.nih.gov/dash.

DASH EATING PLAN National Heart, Lung, and Blood Institute

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.

DASH EATING PLAN

Why the DASH Eating Plan Works

What you choose to eat affects your chances of developing hypertension, which is the leading cause of death in the United States. Blood pressure can be unhealthy even if it stays only slightly above normal. For example, a systolic blood pressure of 120 mmHg is considered normal, while 130 mmHg is considered high. The more your blood pressure rises above normal, the greater the risk for heart disease.

Scientists supported by the National Heart, Lung, and Blood Institute (NHLBI) have conducted multiple studies to determine the best way to approach hypertension—or DASH eating plan—was developed after these findings. These findings showed that blood pressures were reduced with an eating plan that included fruits, vegetables, whole grains, and low-fat dairy products, and included less saturated fat, such as fatty meats, full-fat dairy products, and tropical oils like coconut oil, palm kernel oil, and palm oils. It is also lower in sodium compared to the typical American diet and reduces sugar-sweetened beverages and sweets.

DAILY NUTRIENT LEVELS OF THE ORIGINAL DASH EATING PLAN

Total Fat	27% of calories
Saturated fat	6% of calories
Carbohydrate	50% of calories
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Potassium	4,700 mg
Calcium	1,250 mg
Magnesium	500 mg
Cholesterol	300 mg
Fiber	28 g

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

DASH EATING PLAN National Heart, Lung, and Blood Institute

DASH WEB RESOURCES

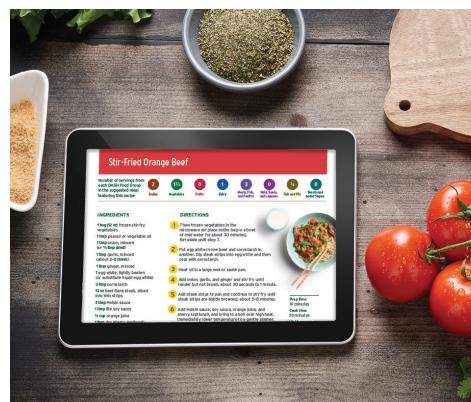
Comprehensive websites keep you current about how to live a healthy life with DASH.

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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

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.

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 to help you figure 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 eating habits compare to 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.

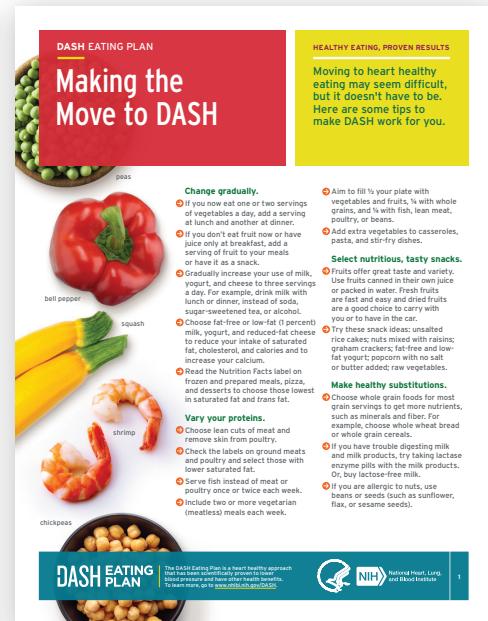
3 Make DASH a part of your healthy life.
The DASH eating plan along with other lifestyle changes can help you control your blood pressure and lower blood cholesterol. Important lifestyle recommendations include: achieve and maintain a healthy weight, get regular physical activity, limit alcohol, do so 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 menu plan in A Week 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, even 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.

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National Heart, Lung, and Blood Institute



DASH EATING PLAN
Making the Move to DASH

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.

Change gradually.

- If you don't eat one or two servings of vegetables, add a serving at lunch and another at dinner.
- If you don't eat fruit now or have juice only at breakfast, add a piece of fruit to your cereal instead of milk or eat it as a snack.
- Gradually increase your intake of milk, cheese, and dried fruits over several days or weeks.
- If you don't eat fruit now or have juice only at breakfast, add a piece of fruit to your cereal instead of milk or eat it as a snack.
- Choose low-fat or nonfat (1 percent) milk, yogurt, and reduced-fat cheese to reduce your intake of saturated fat. These choices also add calcium to your diet and increase your calcium.
- Read the Nutrition Facts label on packaged foods to choose those lowest in saturated fat and trans fat.

Vary your proteins.

- Choose lean cuts of meat and remove the skin.
- Replace the leaner cuts of meat and poultry and select those with lower saturated fat.
- Serve fish instead of meat or poultry at least twice each week.
- Include two or more vegetarian (meatless) meals each week.

Select nutritious, tasty snacks.

- Fruits offer great taste and variety. Choose whole fruits, not canned or packed in water. Fresh fruits are fast and easy and dried fruits are a good choice when you're on the go.
- Choose whole-grain cereals, graham crackers, fat-free or low-fat yogurt; popcorn with no salt or butter added; raw vegetables.

Make healthy substitutions.

- Replace the grain products you eat most often with whole grains, such as whole grain cereals and breads and fiber. For example, choose whole wheat bread instead of white bread.
- If you have trouble digesting milk and milk products, try taking lactase enzyme tablets or lactose-free milk products. Or, buy lactose-free milk.
- If you are allergic to nuts, use nut substitutes such as sunflower, flax, or sesame seeds.

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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

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.

1 Ask yourself why you got off track.
Was it at a party? Were you feeling stressed 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 to help you figure out how many calories you need. Then fill in 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 it helpful to keep a journal of what you eat and drink during 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.

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National Heart, Lung, and Blood Institute



DASH EATING PLAN
Get Active With DASH

HEALTHY EATING, PROVEN RESULTS

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

Make physical activity part of your daily life while following the DASH eating plan multiples the health benefits. Being active can lower high blood pressure, improve heart function, and blood glucose levels, protect your heart, improve blood flow, and help prevent heart disease. 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.

- Aerobic.** Also called endurance activity, aerobic activity benefits your heart and lungs. Examples include brisk walking, swimming, bicycling, jumping rope, running, and all examples.
- Muscle-strengthening.** Resistance training, such as carrying grocery bags, using resistance bands, or weightlifting, strengthens your power and endurance. You can also use elastic bands or body weight exercises. Examples include sit-ups, lunges, and planks.
- Bone-strengthening.** Weight-bearing activities such as running, walking, jumping rope, and lifting weights, make your bones strong.
- Stretching.** Stretching improves your flexibility and your ability to fully move your joints. Examples include side stretches, and yoga are some examples.

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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

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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



While fresh fruits and vegetables, whole grains, and other less processed foods are best choices for a diet, you can make smart choices about packaged or processed foods when you know how to read labels. Many items on the grocery store shelf help you eat well, even though some items lower in sodium, saturated fat, sugar, and calories and higher in potassium and calcium.

Low-sodium canned diced tomatoes

Nutrition Facts	
Serving Size	1/2 cup (130g)
Amount Per Serving	
Calories	25
% Daily Value	
Total Fat 0g	0%
Saturated Fat 0g	0%
Cholesterol 0mg	0%
Total Carbohydrate 5g	2%
Dietary Fiber 1g	4%
Protein 1g	
Vitamin A 400IU	8%
Vitamin C 20mg	10%
Calcium 10%	
Iron 0mg	
Cholesterol 200mg	

Per 1/2 cup serving. Based on a 2,000 calorie diet. You may need to eat less if you are on a lower calorie diet. * 200 calories a day is a typical calorie allowance for a healthy adult.

DASH EATING PLAN

The DASH Eating Plan is a heart healthy approach to eating. It includes lots of fruits and vegetables, whole grains, and low-fat dairy products. It also includes less sodium, saturated fat, and added sugars. It helps you lose weight and have other health benefits. To learn more, go to www.dash-eating-plan.com.

HIGHLY EATING, PROVEN RESULTS

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

The DASH eating plan can lower your blood pressure as fast as two **ACE** inhibitors, without side effects, even greater heart healthy benefits. Look for the sodium content in ingredient lists and percent daily value on Nutrition Facts labels and aim for foods that are less than 5 percent of daily value for sodium. Foods with 20 percent or more Daily Value of sodium are considered high and can increase your blood pressure.

Canned diced tomatoes

Nutrition Facts	
Serving Size	1/2 cup (130g)
Amount Per Serving	
Calories	25
% Daily Value	
Total Fat 0g	0%
Saturated Fat 0g	0%
Cholesterol 0mg	0%
Total Carbohydrate 5g	2%
Dietary Fiber 1g	4%
Protein 1g	
Vitamin A 300IU	6%
Vitamin C 20mg	10%
Calcium 10%	
Iron 0mg	
Cholesterol 200mg	

Per 1/2 cup serving. Based on a 2,000 calorie diet. You may need to eat less if you are on a lower calorie diet. * 200 calories a day is a typical calorie allowance for a healthy adult.

National Heart, Lung, and Blood Institute

DASH EATING PLAN

Getting More Potassium

Increasing potassium by eating potassium-rich foods is recommended for adults with high blood pressure who are otherwise healthy. While salt substitutes containing potassium are sometimes used if it's safe for your condition for high blood pressure, these supplements can be harmful to people with kidney disease or heart failure. Check with 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 are 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 seasoning so you can avoid any extra sodium.

Spicy Baked Fish

A salmon fillet, olive oil, and salt-free spicy seasoning baked in 25 minutes is quick, easy, and delicious.

Geric Mashed Potatoes

No added salt or oil, these potatoes are easy-to-prepare, tasty, potato dish that can even be made in the microwave.

Limas and Spinach

This delicious dish delivers 579 mg of potassium per serving by combining two potassium powerhouses.

EASY DASH RECIPES PACKED WITH POTASSIUM

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

DASH EATING PLAN

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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 packed with potassium and easy to have on hand for healthy snacking.

Dairy
One cup of plain, non-fat yogurt has 579 mg of potassium. Combine with fruit or add nuts and granola 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 high in potassium, including the Atlantic salmon being one of the best at 534 mg per 3-ounce serving.

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

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

EAT YOUR VEGETABLES.
Choose plain fresh, frozen, or canned (low-sodium or no-salt-added) vegetables and season them yourself.

FRESH IS BEST.
Choose fresh or frozen plainness poultry, fish, and meat instead of meat that have those that are marinated, canned, smoked, bried, or cured.

GO "LOW OR NO."
Check food labels for Facts Labels to compare sodium levels in foods. Choose low- or reduced-sodium, or no-salt-added versions of foods.

PAT YOUR ATTENTION TO PREPARATION.
Limit salt added to foods. Instead, add flavor to foods products by adding 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. These should be used as sparingly as table salt.

SUBTRACT, DON'T ADD.
Subtract foods both in tuna and beans can be rinsed to remove some of the sodium. Cook rice, pasta, and hot cereals in water with a dash of salt. Instant or flavored rice, pasta, and cereal mixes, which usually have added salt.

SWITCH TO SLIMMED-DOWN FOODS.
Switch from frozen dinners and mixed dishes such as pizza, packaged mixes, canned soups or broths, and salad dressings to slimmed-down versions of sodium. Prepare and eat more foods at home, where you can control how much sodium is added.

SPICE IT UP.
Bacon flavor with herbs, spices, lemon, lime, vinegar, or salt-free seasoning blends instead of salt. Add flavor to foods with garlic, onion, 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 is the first step could become second nature.

Research the restaurant's menu online.
Check online nutrition information and then avoid those on the menu that are fried, breaded, or heavily salted.

Make special requests.
Ask the server to make your meal prepared without added salt. MSG, or salty condiments, such as bacon, pickles, onions, and cheese.

Easy does it on the condiments.
A little goes a long way for mustard, ketchup, horseradish, mayonnaise, and salsa with salt containing ingredients.

Go for healthy appetizers and desserts.
Choose fruit or vegetables instead of salty snacks, chips, or fries.

The DASH Eating Plan is a heart healthy approach that has been scientifically proven to lower blood pressure and reduce risk of heart disease. 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 are packed with nutrients and help make you feel full longer. The best way to take off pounds is to eat more fruits and veggies, move more physical activity and eat a balanced diet lower in calories and unhealthy fats. By 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 bloating at first. To avoid these problems, gradually increase the amount of fruit, vegetables, and whole grains 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 healthy herbs.
- Substitute low-calorie foods, such as when snacking (choose fruits or vegetables instead of chips or desserts) or drinking (choose water or seltzer water instead of soda or juice).
- If fresh or dried herbs are too expensive, try adding a few dashes of extra condiments to add flavor to dishes.
- Put a bowl of fruit on the kitchen counter so you have a healthy snack option, not to have chips or other high-calorie, high-sodium snacks.

Learn more about living a heart healthy and healthy lifestyle 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 sugar cereal for breakfast.
 - Instead of sweetened yogurt, add fruit to plain, low-fat yogurt.
 - Eat fruits canned in their own juice or in water, not syrup.
- To increase vegetables and reduce meat—
 - Have a veggie burger that's 3 ounces of meat topped with cheese and toppings. Serve with ½ cup of carrots and ½ cup of spinach.
 - Instead of 5 ounces of chicken, have a stir fry with 2 ounces of chicken and ½ cups of fresh vegetables.
- To increase fat-free or low-fat milk products—
 - Buy 1% milk instead of full fat cream.
 - If you're lactose-intolerant, have small, frequent dairy products, yogurt, cheeses, 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 prevent heart disease and stroke. It's a healthy eating plan. To learn more, go to www.nhlbi.nih.gov/dash




DASH EATING PLAN

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National Heart, Lung,
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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 ingredients. This week's DASH menus allow you to plan healthy, nutritious meals for a week. There are no限制性 rules, just simple foods that fill you up while fueling your body and lowering your blood pressure. You can choose from many options to 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 encourage you to eat more lower-sodium, low-fat, fat-free, or reduced-fat versions of products. These menus target a total of 2,000 calories a day. Serving sizes should be increased or decreased for other calorie needs. For example, if your calorie needs 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 is the recommended serving amount for that item.

KEY TO FOOD GROUPS: Grains (brown), Vegetables (green), Fruits (pink), Dairy (blue), Meat, Fish, and Poultry (purple), Nuts, Seeds, and Legumes (yellow), Fats and Oils (orange), and Added Sugars (light blue).

DASH EATING PLAN

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NIH National Heart, Lung, and Blood Institute

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 meals based on the DASH eating plan part of your daily life?

- Start by learning how your current food habits compare with the DASH eating plan. Use this worksheet to track your eating for a few days.
- Explore the Healthy Eating webpage (thehealthyeatingplan.nih.gov) to learn more about how to make old favorites healthier.
- Choose your favorite foods from each of the DASH food groups based on your calorie needs and keep them in your healthy menu.
- Don't worry if some days are off target for your daily totals. Just try to get back on track the next day or several days close to the recommended servings and sodium levels. Following the DASH eating plan is not just about 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.

NIH National Heart, Lung, and Blood Institute

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?

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 circling the corresponding numbers in circles.

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

	CALORIES	SODIUM (MG)
BREAKFAST		
LUNCH		
DINNER		
SNACKS		

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.

DASH EATING PLAN

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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.

DAY 1

A Week With DASH

The Day 1 menu contains this number of servings from each DASH Food Group:

Grains	5
Vegetables	5
Fruits	6
Dairy	2½
Meat, Fish, and Poultry	6
Nuts, Seeds, and Legumes	1½
Fats and Oils	3½
Added Sugars	0

The menu below contains the recommended number of daily servings from each DASH food group as well as a heart 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.

	SODIUM (MG)
BREAKFAST	220
• 1 medium banana	1
• 1 cup low-fat milk	107
• 1 slice whole wheat bread	149
• 1 oz reduced-fat cheese	250
• 1 cup orange juice	5
LUNCH	179
• ½ cup chicken salad	179
• 2 slices whole wheat bread	299
• 1 oz reduced-fat mustard	373
DINNER	35
• 3 oz roast beef, eye of the round	35
• 2 Tbsp gravy, fat-free	65
• 1 slice green beans, sautéed with:	12
• ½ cup canola oil	0
• 1 small baked potato	14
• 1 Tbsp sour cream, fat-free	21
• 1 slice reduced-fat cheese, reduced-fat	67
• 1 Tbsp chopped cilantro	1
• 1 small whole wheat roll	148
• 1 oz soft (tub) margarine	26
• 1 small apple	1
• 1 Tbsp reduced-fat salad dressing	107
SNACKS	0
• ½ cup almonds, unsalted	0
• ½ cup raisins	4
• ½ cup fruit yogurt, fat-free, no sugar added	86
TOTAL SODIUM (MG) FOR DAY 1	2,101

219 mg less sodium
Try shredded cheese instead of bread flakes.

198 mg less sodium
Use regular mustard in place of Dijon mustard.

66 mg less sodium
Use low-sodium cheddar instead of cheddar cheese.

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Following the DASH Eating Plan

FOR 1,200 CALORIES PER DAY

	CALORIES	SODIUM (MG)
Grains		
Sources of fiber, potassium, and magnesium		
oatmeal		
whole wheat bread		
brown rice		
kale		
green beans		
vegetable juice		
Vegetables		
Sources of potassium, magnesium, and fiber		
1 slice raw leafy vegetable		
½ cup cut-up raw or cooked vegetable		
½ cup vegetable juice		
EXAMPLES		
Oatmeal, grits, brown rice, unsalted pretzels and popcorn, whole grain cereal, whole wheat bread, rolls, pasta, English muffin, pita bread, bagel		
Snacks		
EXAMPLES		
Broccoli, carrots, collards, green beans, green peas, kale, lima beans, potatoes, spinach, squash, sweet potatoes, tomatoes		

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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.

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