

# Blood Pressure and the DASH Diet

## What is high blood pressure?

**Blood pressure (BP)** is the force of blood against the inside walls of your arteries. When your arteries become narrow, the pressure of the blood inside goes up. This is high blood pressure, or **hypertension**.

High blood pressure can damage your arteries, reduce blood flow to your organs, and make your heart work harder. If not controlled, it can lead to heart disease, stroke, kidney disease, blindness, and other health problems.

## How is it diagnosed?

To measure your blood pressure, your health care provider will wrap a special cuff around your arm. The cuff is attached to a machine or gauge. When the cuff is inflated, it measures the pressure in your blood vessels in millimeters of mercury (mmHg).

Blood pressure is measured with 2 numbers, for example, “120 over 80” (written as 120/80). The first number is your **systolic pressure** (when your heart beats). The second number is your **diastolic pressure** (when your heart rests between beats). The table below shows the numbers for **normal**, **elevated**, and stage 1 and 2 for **high** blood pressure.

Your health care provider will check your blood pressure several times to determine if you have high blood pressure on a regular basis.

BP category	Systolic	/	Diastolic
Normal	less than 120	and	less than 80
Elevated	120 to 129	and	less than 80
Stage 1 High	130 to 139	or	80 to 89
Stage 2 High	140 or higher	or	90 or higher



You can help control your blood pressure by:

- Eating less salt
- Eating lots of fruits and vegetables
- Exercising every day
- Checking your BP regularly

## What causes it?

Most commonly, high blood pressure develops a little at a time over many years. Certain things can increase your risk for high blood pressure. These are called **risk factors**. Some you cannot change, others you can. Check your risk factors on the list below. See the next pages for tips on managing the risk factors you can control.

Risk factors you CANNOT change	Risk factors you CAN change
<input type="checkbox"/> Family history <input type="checkbox"/> Age: Risk increases as you age <input type="checkbox"/> Race: Risk increases in African Americans	<input type="checkbox"/> Physical inactivity <input type="checkbox"/> Being overweight or obese <input type="checkbox"/> Diet <input type="checkbox"/> Smoking and tobacco use <input type="checkbox"/> Stress <input type="checkbox"/> Use of birth control pills

## What are the symptoms?

Rarely, people with high blood pressure may have dizziness, headaches, or nose bleeds. However, **most people don't have any signs or symptoms**. For this reason, you should have your blood pressure checked regularly, even if you're feeling fine.

## Manage your BP with “MAWDS”



### Medicine — Take your medicine.

If your doctor prescribes blood pressure medicine, the best way to manage your blood pressure is to take it every day, even if you feel fine. Even if your blood pressure has reached its goal, it may not stay there without your medicines.



### Activity — Stay active every day.

Staying active is one of the best ways to control your blood pressure. People who are active cut their risk of developing high blood pressure in half. Aim for at least 30 minutes every day of moderate-intensity physical activity — like a brisk walk.



### Weight — Maintain a healthy weight.

Being overweight increases your risk of high blood pressure. Losing even 5 to 10 percent of your current weight can lower your risk. If you weigh 200 pounds, that means losing just 10 to 20 pounds.



### Diet — Eat a healthy diet.

Studies have shown that following a healthy eating plan — such as the **DASH diet** described on these pages — lowers your systolic blood pressure by an average of 11 points, and your diastolic blood pressure by an average of 5 points. This diet can also help prevent other serious problems like osteoporosis, cancer, heart disease, stroke, and diabetes.



### Smoking, and Stress — Stop smoking, manage stress.

Tobacco use harms your arteries and increases your blood pressure. Lots of stress over many months or years also can hurt your body. Quitting smoking and learning to manage stress can lower your blood pressure and improve your overall health.

## Do the DASH

**DASH** stands for **D**ietary **A**pproaches to **S**top **H**ypertension. The **DASH** eating plan helps you to:

- **Lower the sodium (salt) in your diet.** The standard DASH diet allows up to 2,300 milligrams (mg) of sodium a day. A lower-sodium DASH diet calls for less than 1,500 mg of sodium a day.
- **Follow a healthy diet in general,** rich in whole grains, fruits and vegetables, fat-free or low-fat milk products, fish and poultry, beans, seeds, and nuts.

**How it works:** The **DASH eating plan** (page 3) suggests a certain number of daily servings from various food groups based on your calorie intake. Recommended calories are based on your sex, age, and activity level (see table below). If you want to lose weight, you'll need to eat fewer calories a day, increase your activity level, or both.

Sex	Age	Calories needed based on activity level		
		Low	Medium	High
Female	19 to 30	2,000	2,000 to 2,200	2,400
	31 to 50	1,800	2,000	2,200
	51 and older	1,600	1,800	2,000 to 2,200
Male	19 to 30	2,400	2,600 to 2,800	3,000
	31 to 50	2,200	2,400 to 2,600	2,800 to 3,000
	51 and older	2,000	2,200 to 2,400	2,400 to 2,800

### General tips:

- **Avoid high-sodium foods.** Pre-made foods that come in cans, boxes, and bags are often high in sodium, as are foods that come from the deli, like ham, salami, potato salad, and pickles.
- **Read food labels carefully.** Foods with more than 20% of the Daily Value are considered “high-sodium.” Check the serving size. This is what the nutrition facts are based on.
- **Go for gradual changes.** For example, add a serving of vegetables at lunch and dinner. Add a serving of fruit to your meals or as a snack. Use half your usual amount of butter or salad dressing.

## The DASH eating plan

Food Group	Servings based on calorie level			Serving sizes	Examples
	1,600	2,000	2,600		
<b>Grains</b> Major sources of energy and fiber. Whole grains are good sources of fiber, vitamins, and minerals.	6 per day	6 to 8 per day	10 to 11 per day	1 slice bread 1 ounce dry cereal (between ½ cup and 1 ¼ cups, depending on cereal type); check the nutrition label ½ cup cooked rice or pasta	Whole wheat bread, whole wheat pasta, oatmeal, brown rice, unsalted pretzels, and popcorn
<b>Vegetables</b> Rich sources of potassium, magnesium, and fiber.	3 to 4 per day	4 to 5 per day	5 to 6 per day	1 cup raw, leafy vegetables ½ cup cut-up raw or cooked vegetables ½ cup vegetable juice	Broccoli, carrots, collards, green beans, kale, lima beans, potatoes, spinach, squash, sweet potatoes, tomatoes
<b>Fruits</b> Important sources of potassium, magnesium, and fiber.	4 per day	4 to 5 per day	5 to 6 per day	1 medium fruit ¼ cup dried fruit ½ cup fresh, frozen, or canned fruit or fruit juice	Apples, apricots, bananas, dates, grapes, oranges, grapefruit, mangoes, melons, peaches, pineapples, raisins, strawberries, tangerines
<b>Fat-free or low-fat milk and milk products</b> Major sources of calcium protein, and Vitamin D.	2 to 3 per day	2 to 3 per day	3 per day	1 cup milk or yogurt 1 ½ ounces cheese	Fat-free (skim) or low-fat (1%) milk; fat-free, low-fat, or reduced-fat cheese; fat-free or low-fat regular or frozen yogurt
<b>Lean meats, poultry, and fish</b> Rich sources of protein and magnesium.	3 to 6 per day	6 or less per day	6 per day	1 ounce cooked meats, poultry, or fish 1 egg	Only lean meats (trim away visible fat; broil, roast, or poach; remove poultry skin)
<b>Nuts, seeds, and legumes</b> Rich sources of energy, magnesium, protein, and fiber.	3 per week	4 to 5 per week	1 per day	⅓ cup or 1 ½ ounces nuts 2 Tablespoons peanut butter 2 Tablespoons or ½ ounce seeds ½ cup cooked legumes (dry beans and peas)	Almonds, hazelnuts, mixed nuts, peanuts, walnuts, sunflower seeds, peanut butter, kidney beans, lentils, split peas
<b>Fats and oils</b>	2 per day	2 to 3 per day	3 per day	1 teaspoon soft margarine or vegetable oil 1 Tablespoon mayonnaise 2 Tablespoons low-fat salad dressing	Soft margarine, vegetable oil (such as canola, corn, olive, or safflower), low-fat mayonnaise, light salad dressing
<b>Sweets and added sugars</b>	none	5 or less per week	2 or less per day	1 Tablespoon sugar, jelly, or jam ½ cup sorbet or gelatin 1 cup lemonade	Fruit-flavored gelatin, fruit punch, hard candy, jelly, maple syrup, sorbet and ices, sugar

## Checking your blood pressure at home

Your health care provider may ask you to check your blood pressure at home on a regular basis. It can help you and your doctor know how well your medicines, diet, and activities are working to control your blood pressure. Here are some tips for checking at home:

### Choose a good monitor:

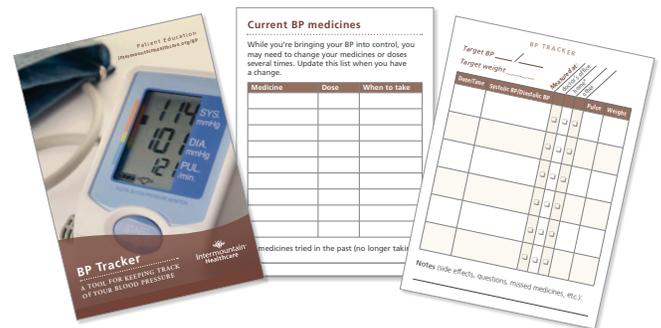
- Use a monitor with an arm cuff that wraps around the upper arm and inflates automatically. Wrist cuffs aren't as accurate.
- Make sure the arm cuff is the right size for your arm. If your upper arm is more than 13 inches around, you may need a large cuff.
- Look for a monitor that also displays heart rate. Some blood pressure medicines affect your heart rate, so your doctor may want you to check your heart rate along with your blood pressure.

### Get an accurate reading:

- Wait at least a half hour after eating, drinking caffeine, or exercising.
- Sit quietly for 5 minutes before taking your blood pressure.
- Place the cuff in the correct position on your arm.
- Sit straight up with both feet flat on the floor. Rest your arm on a table or the arm of a chair. Follow the instructions provided with the monitor.

### Track your results:

- Check your blood pressure at least 2 or 3 times a week, at different times of the day. Your doctor may ask you to take your blood pressure daily, sometimes even twice a day at first. Once your blood pressure becomes more stable, you can check it less often.
- Write it down. Write your results in a notebook or a tool such as Intermountain's **BP Tracker** where you can also track your heart rate and weight. Take this record to your appointments to share with your health care provider.



Intermountain's **BP Tracker** is a pocket-sized guide to help you keep track of your blood pressure, weight, medicines, appointments, and more. Ask your healthcare provider for a copy.

### Your health care providers:

Name: \_\_\_\_\_

Phone: \_\_\_\_\_

Name: \_\_\_\_\_

Phone: \_\_\_\_\_

### Your next appointment:

With: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

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