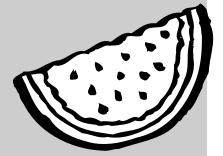


# The DASH Diet

FEATURING NEW FINDINGS
ABOUT REDUCING SODIUM—
AND NEW LOWER-SODIUM
RECIPES AND MENUS.











Research has found that diet affects the development of high blood pressure, or hypertension

(the medical term). Recently, two studies showed that following a particular eating plan—called the DASH diet—and reducing the amount of sodium consumed lowers blood pressure.

While each step alone lowers blood pressure, the combination of the eating plan and a reduced sodium intake gives the biggest benefit and may help prevent the development of high blood pressure.

This fact sheet, based on the DASH research findings, tells about high blood pressure, and how to follow the DASH diet and reduce the amount of sodium you consume. It offers tips on how to start and stay on the eating plan, as well as a week of menus and some recipes. The menus and recipes are given for two levels of daily sodium consumption —2,400 milligrams (the upper limit of current recommendations by the Federal

Government's National High Blood Pressure Education Program, or NHBPEP, and the amount used to figure food labels' Nutrition Facts Daily Value) and 1,500 milligrams.

Those with high blood pressure may especially benefit from following the eating plan and reducing their sodium intake. But the combination is a hearthealthy recipe that all adults can follow.

## WHAT IS HIGH BLOOD PRESSURE?

Blood pressure is the force of blood against artery walls. It is measured in millimeters of mercury (mm Hg) and recorded as two numbers—systolic pressure (as the heart beats) over diastolic pressure (as the heart relaxes between beats). Both numbers are important (see Box 1 on page 2).

Blood pressure rises and falls during the day. But when it stays elevated over



BLOOD PRE	SSURE CATE	GORIE	ES FOR ADULTS*
	Systolic**		Diastolic**
Optimal	<120 mm Hg	and	<80 mm Hg
Normal	<130 mm Hg	and	<85 mm Hg
High-Normal	130-139 mm Hg	or	85-89 mm Hg
High			
Stage 1	140-159 mm Hg	or	90-99 mm Hg
Stage 2	160-179 mm Hg	or	100-109 mm Hg
Stage 3	>180 mm Ha	or	>110 mm Ha

- \* Categories are for those age 18 and older and come from the NHBPEP. The categories are for those not on a high blood pressure medication and who have no short-term serious illness.
- \*\* If your systolic and diastolic pressures fall into different categories, your overall status is the higher category.
- < means less than; > means greater than or equal to.



time, then it's called high blood pressure. High blood pressure is dangerous because it makes the heart work too hard, and the force of its blood flow can harm arteries. High blood pressure often has no warning signs or symptoms. Once it occurs, it usually lasts a lifetime. If uncontrolled, it can lead to heart and kidney disease, and stroke.

High blood pressure affects about 50 million—or 1 in 4—adult Americans. High blood pressure is especially common among African Americans, who tend to develop it at an earlier age and more often than whites. It also is common among older Americans—about 60 percent of those age 60 and

older have high blood pressure.

High blood pressure can be controlled if you take these steps: maintain a healthy weight; be physically active; follow a healthy eating plan, which includes foods lower in salt and sodium; if you drink alcoholic beverages, do so in moderation; and, if you have high blood pressure and are prescribed medication, take it as directed. All steps but the last also help to prevent high blood pressure.

#### WHAT IS THE DASH DIET?

Blood pressure can be unhealthy even if it stays only slightly above the optimal level of less than 120/80 mm Hg. The higher blood pressure rises above optimal, the greater the health risk.

In the past, researchers tried to find clues about what in the diet affects blood pressure by testing various single nutrients, such as calcium and magnesium. These studies were done mostly with dietary supplements and their findings were not conclusive.

Then, scientists supported by the National Heart, Lung, and Blood Institute (NHLBI) conducted two key studies. The first was called "DASH," for Dietary Approaches to Stop Hypertension, and it tested nutrients as they occur together in food. Its findings showed that blood pressures were reduced with an eating plan that is low in saturated fat, cholesterol, and total fat, and that emphasizes fruits, vegetables, and lowfat dairy foods. This eating plan—known as the DASH diet-also includes whole grain products, fish, poultry, and nuts. It is reduced in red meat, sweets, and sugar-containing beverages. It is rich in magnesium, potassium, and calcium, as well as protein and fiber.

The DASH study involved 459 adults with systolic blood pressures of less than 160 mm Hg and diastolic pressures of 80–95 mm Hg. About

#### FOLLOWING THE DASH DIET

The DASH eating plan shown below is based on 2,000 calories a day. The number of daily servings in a food group may vary from those listed depending on your caloric needs. Use this chart to help you plan your menus or take it with you when you go to the store.

FOOD GROUP	DAILY SERVINGS (except as noted)	SERVING SIZES	EXAMPLES AND NOTES	SIGNIFICANCE OF EACH FOOD GROUP TO THE DASH EATING PLAN
Grains & grain products	7–8	1 slice bread 1 oz dry cereal* ½ cup cooked rice, pasta, or cereal	whole wheat bread, English muffin, pita bread, bagel, cereals, grits, oatmeal, crackers, unsalted pretzels and popcorn	major sources of energy and fiber
Vegetables	4–5	1 cup raw leafy vegetable ½ cup cooked vegetable 6 oz vegetable juice	tomatoes, potatoes, carrots, green peas, squash, broccoli, turnip greens, collards, kale, spinach, artichokes, green beans, lima beans, sweet potatoes	rich sources of potassium, magnesium, and fiber
Fruits	4–5	6 oz fruit juice 1 medium fruit ¼ cup dried fruit ½ cup fresh, frozen, or canned fruit	apricots, bananas, dates, grapes, oranges, orange juice, grapefruit, grapefruit juice, mangoes, melons, peaches, pineapples, prunes, raisins, strawberries, tangerines	important sources of potassium, magnesium, and fiber
Lowfat or fat free dairy foods	2–3	8 oz milk 1 cup yogurt 1½ oz cheese	fat free (skim) or lowfat (1%) milk, fat free or lowfat buttermilk, fat free or lowfat regular or frozen yogurt, lowfat and fat free cheese	major sources of calcium and protein
Meats, poultry, and fish	2 or less	3 oz cooked meats, poultry, or fish	select only lean; trim away visible fats; broil, roast, or boil, instead of frying; remove skin from poultry	rich sources of protein and magnesium
Nuts, seeds, and dry beans	4–5 per week	⅓ cup or 1½ oz nuts 2 Tbsp or ½ oz seeds ⅓ cup cooked dry beans	almonds, filberts, mixed nuts, peanuts, walnuts, sunflower seeds, kidney beans, lentils, peas	rich sources of energy, magnesium, potassium, protein, and fiber
Fats & oils**	2-3	tsp soft margarine     Tbsp lowfat     mayonnaise     Tbsp light salad dressing     tsp vegetable oil	soft margarine, lowfat mayonnaise, light salad dressing, vegetable oil (such as olive, corn, canola, or safflower)	DASH has 27 percent of calories as fat, including that in or added to foods
Sweets	5 per week	1 Tbsp sugar 1 Tbsp jelly or jam ½ oz jelly beans 8 oz lemonade	maple syrup, sugar, jelly, jam, fruit-flavored gelatin, jelly beans, hard candy, fruit punch, sorbet, ices	sweets should be low in fat

<sup>\*</sup> Equals  $\frac{1}{2}$  -1 $\frac{1}{4}$  cup, depending on cereal type. Check the product's nutrition label. \*\* Fat content changes serving counts for fats and oils: For example, 1 Tbsp of regular salad dressing equals 1 serving; 1 Tbsp of a lowfat dressing equals  $\frac{1}{2}$  serving; 1 Tbsp of a fat free dressing equals 0 servings.

#### HOW TO LOWER CALORIES ON THE DASH EATING PLAN

The DASH eating plan was not designed to promote weight loss. But it is rich in lower-calorie foods, such as fruits and vegetables. You can make it lower in calories by replacing higher-calorie foods with more fruits and vegetables—and that also will make it easier for you to reach your DASH goals. Here are some examples:

#### To increase fruits—

- Eat a medium apple instead of four shortbread cookies. *You'll save*
- Eat ¼ cup of dried apricots instead of a 2-ounce bag of pork rinds. You'll save 230 calories.

#### To increase vegetables—

- Have a hamburger that's 3 ounces of meat instead of 6 ounces. Add  $\frac{1}{2}$  cup serving of carrots and  $\frac{1}{2}$  cup serving of spinach. You'll save more than 200 calories.
- Instead of 5 ounces of chicken, have a stir-fry with 2 ounces of chicken and 1<sup>1</sup>/<sub>2</sub> cups of raw vegetables. Use a small amount of vegetable oil. You'll save 50 calories.

#### To increase lowfat or fat free dairy products—

■ Have a ½ cup serving of lowfat frozen yogurt instead of a 1½-ounce milk chocolate bar. *You'll save about 110 calories*.

#### And don't forget these calorie-saving tips-

- Use lowfat or fat free condiments.
- Use half as much vegetable oil, soft or liquid margarine, or salad dressing, or choose fat free versions.
- Eat smaller portions—cut back gradually.
- Choose lowfat or fat free dairy products to reduce total fat intake.
- Check the food labels to compare fat content in packaged foods— items marked lowfat or fat free are not always lower in calories than their regular versions.
- Limit foods with lots of added sugar, such as pies, flavored yogurts, candy bars, ice cream, sherbet, regular soft drinks, and fruit drinks.
- Eat fruits canned in their own juice.
- Add fruit to plain yogurt.
- Snack on fruit, vegetable sticks, unbuttered and unsalted popcorn, or bread sticks.
- Drink water or club soda.

27 percent of the participants had hypertension. About 50 percent were women and 60 percent were African Americans.

DASH compared three eating plans: A plan similar in nutrients to what many Americans consume; a plan similar to what Americans consume but higher in fruits and vegetables; and the DASH diet. All three plans used about 3,000 milligrams of sodium daily. None of the plans were vegetarian or used specialty foods.

Results were dramatic: Both the fruits and vegetables plan and the DASH diet reduced blood pressure. But the DASH diet had the greatest effect, especially for those with high blood pressure. Further, the blood pressure reductions came fast—within 2 weeks of starting the plan.

The second study was called "DASH-Sodium," and it looked at the effect on blood pressure of a reduced dietary sodium intake as participants followed either the DASH diet or an eating plan typical of what many Americans consume. DASH-Sodium involved 412 participants. Their systolic blood pressures were 120–159 mm Hg and their diastolic blood pressures were 80–95 mm Hg. About 41 percent of them had high blood

BOX 4

pressure. About 57 percent were women and about 57 percent were African Americans.

Participants were randomly assigned to one of the two eating plans and then followed for a month at each of three sodium levels. The three sodium levels were: a higher intake of about 3,300 milligrams per day (the level consumed by many Americans); an intermediate intake of about 2,400 milligrams per day; and a lower intake of about 1,500 milligrams per day.

Results showed that reducing dietary sodium lowered blood pressure for both eating plans. At each sodium level, blood pressure was lower on the DASH diet than on the other eating plan. The biggest blood pressure reductions were for the DASH diet at the sodium intake of 1,500 milligrams per day. Those with hypertension saw the biggest reductions, but those without it also had large decreases.

Those on the 1,500-milligram sodium intake, as well as those on the DASH diet, had fewer headaches. Other than that and blood pressure levels, there were no significant effects caused by the two eating plans or different sodium levels.

## DASH EATING PLAN NUMBER OF SERVINGS FOR OTHER CALORIE LEVELS

Food Group	Servings/Day							
•	1,600 calories/day	3,100 calories/day						
Grains and grain products	6	12-13						
Vegetables	3-4	6						
Fruits	4	6						
Lowfat or fat free dairy foods	2-3	3-4						
Meats, poultry, and fish	1-2	2-3						
Nuts, seeds, and dry beans	3/week	1						
Fat and oils	2	4						
Sweets	0	2						

BOX 5

#### WHERE'S THE SODIUM?

Only a small amount of sodium occurs naturally in foods. Most sodium is added during processing. The Table below gives examples of varying amounts of sodium that occur in foods before and after processing.

Food Groups	Sodium (mg)
Grains and grain products	
Cooked cereal, rice, pasta, unsalted, 1/2 cup	0–5
Ready-to-eat-cereal, 1 cup	100–360
Bread, 1 slice	110–175
Vegetables	
Fresh or frozen, cooked without salt, ½ cup	1–70
Canned or frozen with sauce, 1/2 cup	140–460
Tomato juice, canned 3/4 cup	820
Fruit	
Fresh, frozen, canned, ½ cup	0–5
Lowfat or fat free dairy foods	
Milk, 1 cup	120
Yogurt, 8 oz	160
Natural cheeses, 1½ oz	110–450
Processed cheeses, 1½ oz	600
Nuts, seeds, and dry beans	
Peanuts, salted, 1/3 cup	120
Peanuts, unsalted, 1/3 cup	0–5
Beans, cooked from dried	0–5
or frozen, without salt, $\frac{1}{2}$ cup	<b>~</b> -
Beans, canned, ½ cup	400
Meats, fish, and poultry	
Fresh meat, fish, poultry, 3 oz	30–90
Tuna canned, water pack, no salt added, 3 oz	35–45
Tuna canned, water pack, 3 oz	250–350
Ham, lean, roasted, 3 oz	1,020
	,

## TIPS TO REDUCE SALT AND SODIUM

- Use reduced sodium or no-saltadded products. For example, choose low- or reduced-sodium, or no-salt-added versions of foods and condiments when available.
- Buy fresh, plain frozen, or canned with "no-salt-added" vegetables.
- Use fresh poultry, fish, and lean meat, rather than canned, smoked, or processed types.
- Choose ready-to-eat breakfast cereals that are lower in sodium.
- Limit cured foods (such as bacon and ham), foods packed in brine (such as pickles, pickled vegetables, olives, and sauerkraut), and condiments (such as MSG, mustard, horseradish, catsup, and barbecue sauce). Limit even lower sodium versions of soy sauce and teriyaki sauce—treat these condiments as you do table salt.
- Be spicy instead of salty. In cooking and at the table, flavor foods with herbs, spices, lemon, lime, vinegar, or salt-free seasoning blends. Start by cutting salt in half.
- Cook rice, pasta, and hot cereals without salt. Cut back on instant or flavored rice, pasta, and cereal mixes, which usually have added salt.
- Choose "convenience" foods that are lower in sodium. Cut back on frozen dinners, mixed dishes such as pizza, packaged mixes, canned soups or broths, and salad dressings—these often have a lot of sodium.
- Rinse canned foods, such as tuna, to remove some sodium.

#### REDUCING SODIUM WHEN EATING OUT

- Ask how foods are prepared. Ask that they be prepared without added salt, MSG, or salt-containing ingredients. Most restaurants are willing to accommodate requests.
- Know the terms that indicate high sodium content: pickled, cured, soy sauce, broth.
- Move the salt shaker away.
- Limit condiments, such as mustard, catsup, pickles, and sauces with salt-containing ingredients.
- Choose fruit or vegetables, instead of salty snack foods.

DASH-Sodium shows the importance of lowering sodium intake
—whatever your eating plan. But
for a true winning combination,
follow the DASH diet *and* lower
your intake of salt.

## How Do I Make THE DASH?

The DASH diet used in the studies calls for a certain number of servings daily from various food groups. These are given in Box 2 on page 3 for 2,000 calories per day. The number of servings you require may vary, depending on your caloric need—Box 4 gives the servings for 1,600 and 3,100 calories. If you're trying to lose weight, check Box 3 for tips on how to make the DASH eating plan lower in calories.

You should be aware that the DASH diet has more daily servings of fruits, vegetables, and whole grain

foods than you may be used to eating. This makes it high in fiber, which can cause bloating and diarrhea in some persons. To avoid these problems, gradually increase your intake of fruit, vegetables, and whole grain foods.

This fact sheet gives menus and recipes for both 2,400 and 1,500 milligrams of daily sodium intake. Twenty-four hundred milligrams of sodium equals about 6 grams, or 1 teaspoon, of table salt (sodium chloride); 1,500 milligrams of sodium equals about 4 grams, or  $^2/_3$  teaspoon, of table salt. These amounts include all salt consumed that in food products, used in cooking, and added at the table. Only small amounts of sodium occur naturally in food. *Processed foods* account for most of the salt and sodium Americans consume. So, be sure to read food labels to choose products lower in sodium.

BOX 8

You may be surprised at many of the foods that have sodium. They include soy sauce, seasoned salts, monosodium glutamate (MSG), baking soda, and some antacids the range is wide.

Since it is rich in fruits and vegetables, which are naturally lower in sodium than many other foods, the DASH diet makes it easier to consume less salt and sodium. Still, you may want to begin by adopting the DASH diet at the level of 2,400 milligrams of sodium per day and then further lower your sodium intake to 1,500 milligrams per day.

Boxes 6, 7, and 8 offer tips on how to reduce the salt and sodium content in your diet, and how to use food labels to find lower sodium products.

How can you get started on the DASH diet? It's easy. The DASH diet requires no special foods and has no hard-to-follow recipes.

One way to begin is by seeing how DASH compares with your current food habits. Use the "What's On Your Plate?" form on page 9. Fill it in for 1–2 days and see how it compares with the DASH plan. This will help you see what changes you need to make in your food choices.

#### COMPARE FOOD LABELS

Read the Nutrition Facts on food labels to compare the amount of sodium in products. Look for the sodium content in milligrams and the % Daily Value. Aim for foods that are less than 5 percent of the Daily Value of sodium.

Compare the food labels of these two versions of canned tomatoes:\*

#### CANNED DICED TOMATOES, NO SALT ADDED

#### **Nutrition Facts** Serving Size 1/2 cup Servings Per Container approx. 31/2 Amount Per Serving Calories 25 Calories from Fat % Daily Value Total Fat 0 q 0% Saturated Fat 0 g 0% Cholesterol 0 mg 0% Sodium 20 mg 1% 2% Total Carbohydrate 6 g 8% Dietary Fiber 2 g Sugars 4 g Protein 1 g

Vitamin A 10% • Vitamin C 15%
Calcium 2% • Iron 2%
\*Percent Daily Values are based on a

### **CANNED DICED TOMATOES**

Nutrition Facts	
Serving Size 1/2 cup	0.44
Servings Per Container approx	. 31/2
Amount Per Serving	
Calories 25 Calories from Fa	at 0
% Da	ily Value*
Total Fat 0 g	0%
_Saturated Fat 0 g	0%_
Cholesterol 0 mg	0%
Sodium 200 mg	8%
Total Carbohydrate 6 g	2%
Dietary Fiber 2 g	8%
Sugars 4 g	
Protein 1 g	
, and the second	
Vitamin A 10% • Vitamin (	C 15%
Calcium 2% • Iron 2%	
*Percent Daily Values are based or	n a
2.000 calorie diet	

<sup>\*</sup>The regular canned tomatoes have 10 times as much sodium as the unsalted canned tomatoes.

BOX 9

### LABEL LANGUAGE

Food labels can help you choose items lower in sodium and saturated and total fat. Look for the following labels on cans, boxes, bottles, bags, and other packaging:

## Phrase Sodium

Sodium free or salt free Very low sodium Low sodium Low sodium meal Reduced or less sodium

Light in sodium

Unsalted or no salt added

#### What it means

Less than 5 mg per serving
35 mg or less of sodium per serving
140 mg or less of sodium per serving
140 mg or less of sodium per 3½ oz (100 g)
At least 25 percent less sodium than the regular version
50 percent less sodium than the regular version

No salt added to the product during processing

Fat

Fat free Low-saturated fat Lowfat Reduced fat

Light in fat

Less than 0.5 g per serving 1 g or less per serving 3 g or less per serving At least 25 percent less fat than the regular version Half the fat than the regular version

7

<sup>\*</sup>Percent Daily Values are based on a 2,000 calorie diet

### GETTING STARTED

It's easy to adopt the DASH eating plan. Here are some ways to get started:

#### Change gradually.

- If you now eat one or two vegetables a day, add a serving at lunch and another at dinner.
- If you don't eat fruit now or have only juice at breakfast, add a serving to your meals or have it as a snack.
- Gradually increase your use of fat free and lowfat dairy products to three servings a day. For example, drink milk with lunch or dinner, instead of soda, sugar-sweetened tea, or alcohol. Choose lowfat (1 percent) or fat free (skim) dairy products to reduce your intake of saturated fat, total fat, cholesterol, and calories.
- Read food labels on margarines and salad dressings to choose those lowest in unsaturated fat. Some margarines are now trans-fat free.

#### Treat meat as one part of the whole meal, instead of the focus.

- Limit meat to 6 ounces a day (2 servings)—all that's needed. Three to four ounces is about the size of a deck of cards.
- If you now eat large portions of meat, cut them back gradually—by a half or a third at each meal.
- Include two or more vegetarian-style (meatless) meals each week.
- Increase servings of vegetables, rice, pasta, and dry beans in meals. Try casseroles and pasta, and stir-fry dishes, which have less meat and more vegetables, grains, and dry beans.

## Use fruits or other foods low in saturated fat, cholesterol, and calories as desserts and snacks.

- Fruits and other lowfat foods offer great taste and variety. Use fruits canned in their own juice. Fresh fruits require little or no preparation. Dried fruits are a good choice to carry with you or to have ready in the car.
- Try these snacks ideas: unsalted pretzels or nuts mixed with raisins; graham crackers; lowfat and fat free yogurt and frozen yogurt; popcorn with no salt or butter added; and raw vegetables.

#### Try these other tips:

- Choose whole grain foods to get added nutrients, such as minerals and fiber. For example, choose whole wheat bread or whole grain cereals.
- If you have trouble digesting dairy products, try taking lactase enzyme pills or drops (available at drugstores and groceries) with the dairy foods.
   Or, buy lactose-free milk or milk with lactase enzyme added to it.
- Use fresh, frozen, or no-salt-added canned vegetables.

Remember that some days the foods you eat may add up to more than the recommended servings from one food group and less from another. Similarly, you may have too much sodium on a particular day. But don't worry. Just be sure that the average of several days or a week comes close to what's recommended for the food groups and for your chosen daily sodium level.

Next, read the "Getting Started" suggestions in the box on this page.

Finally, use the menus that begin on page 10—or make up your own.

One note: If you take medication to control high blood pressure, you should not stop using it. Follow the DASH diet and talk with your doctor about your drug treatment.



### WHAT'S ON YOUR PLATE?

Use this form to track your food habits before you start on the DASH eating plan or to see how you're doing after a few weeks. To record more than 1 day, just copy the form. Total each day's food groups and compare what you ate with the DASH plan. To see how the form looks completed, check the menus that start on page 10.

Food	Amount (serving size)			Nun	nber of s	ervings t	DASH	food gro		.,
		Sodium (mg)	Grains	Vegetables	Fruits	Dairy foods	Meat, poultry, & fish	Nuts, seeds, & dry beans	Fats and oils	Sweets
Breakfast										
Example: whole wheat bread & soft margarine	2 slices 2 tsp	299 102	2						2	
Lunch										
Dinner										
Snacks										
DAY'S TOTAL										
Compare yours with the DASH plan	:	2,400 mg or 1,500 mg	7–8	4–5	4–5	2–3	2 or less	4–5 a week	2–3	5 a week

<sup>\*</sup> Read food labels to compare the sodium content of foods. See page 7 to learn how to find sodium information on food labels.



#### A WEEK WITH THE DASH DIET

Here is a week of menus from the DASH eating plan. The menus allow you to have a daily sodium level of either 2,400 mg or, by making the noted changes, 1,500 mg. You'll also find that the menus sometimes call for you to use lower sodium, or reduced fat or fat free, versions of products.

The menus are based on 2,000 calories a day—serving sizes should be increased or decreased for other calorie levels. To ease the calculations, some of the serving sizes have been rounded off. Also, some items may be in too small a quantity to have a listed food group serving.

Recipes for starred items are given on the later pages. Some of these recipes give changes that can be used to lower their sodium level. Use the changes if you want to follow the DASH diet at 1,500 milligrams of sodium per day.

DAY 1 Abbreviations: oz=ounce, tsp=teaspoon, Tbsp=tablespoon, g=gram, mg=milligram

Breakfast  2/s cup bran cereal  1 slice whole wheat bread  1 medium banana  1 cup fruit yogurt, fat free, no sugar added	(6m) mnipos 61 49 1 53 26 5	Substitutions to Reduce Sodium to 1,500 mg  2/3 cup shedded wheat cereal	Sodium (mg)	Grains	Vegetables	Fruits	Dairy foods	Meat, poultry, & fish	Nuts, seeds, & dry beans	Fats & oils	Sweets
2/3 cup bran cereal 10 1 slice whole wheat bread 14 1 medium banana 1 cup fruit yogurt, fat free, no sugar added	49 1 53 26	²/₃ cup shedded wheat cereal	3								
1 slice whole wheat bread 14 medium banana 1 cup fruit yogurt, fat free, no sugar added 15	49 1 53 26	²/₃ cup shedded wheat cereal	3								
1 medium banana 1 cup fruit yogurt, fat free, no sugar added	1 53 26			1		,					
1 cup fruit yogurt, fat free, no sugar added	53 26			:							
sugar added	26					1					
1 cup fat free milk 1:							1				
1 oup lat hoo hills	5						1				
2 tsp jelly											<sup>2</sup> / <sub>3</sub>
Lunch											
	201	remove salt from recipe	127					1		1	
2 slices whole wheat bread 29	299			2							
1 Tbsp Dijon mustard 3	372	1 Tbsp regular mustard	196								
salad:											
<sup>1</sup> / <sub>2</sub> cup fresh cucumber slices	8				1						
<sup>1</sup> / <sub>2</sub> cup tomato wedges	1				1						
2 Tbsp ranch dressing, fat free 30	306	2 Tbsp yogurt salad dressing*	84								
1/2 cup fruit cocktail, juice pack	5					1					
Dinner											
	52							1			
2 Tbsp beef gravy, lowfat 10	63	2 Tbsp beef gravy, lowfat, unsalted	5								
1 cup green beans, cooked from frozen	12				2						
1 small baked potato:	7				1						
	28										
	86	2 Tbsp cheddar cheese, natural,	1				1/4				
cheese, natural, reduced fat		reduced fat, low sodium									
1 Tbsp chopped scallions	1										
	48			1							
	51	1 tsp soft margarine, unsalted	1							1	
1 small apple	0					1					
	26						1				
Snack											
¹/₃ cup almonds, unsalted	5								1		
¹/₄ cup raisins	2					1					
1 cup orange juice	2					11/3					
Totals				5	5	<b>5</b> ⅓	<b>3</b> 1/ <sub>4</sub>			2	

	Sodiur	n Level		Sodiur	n Level
Nutrients Per Day	2,400 mg	1,500 mg	Nutrients Per Day	2,400 mg	1,500 mg
Calories	2,024	1,998	Sodium	2,363 mg	1,320 mg
Total fat	51 g	50 g	Calcium	1,257 mg	1,338 mg
Percent calories from fat	23 %	23 %	Magnesium	572 mg	589 mg
Saturated fat	9 g	9 g	Potassium	4,780 mg	4,745 mg
Percent calories from saturated fat	4 %	4 %	Fiber	34 g	34 g
Cholesterol	164 mg	164 mg			



2,400 mg Sodium Menu		Substituti	ons to Reduce							Servir	.90	
2,700 mg 00alam mona	Sodium (mg)		o 1,500 mg	Sodium (mg)	Grains	Vegetables	Fruits	Dairy foods	Meat, poultry, & fish	Nuts, seeds, & dry beans	Fats and oils	Sweets
Breakfast												
½ cup instant oatmeal,	104	1/2 cup reau	ılar oatmeal,	1	1							
flavored		: -	o cinnamon									
1 mini whole wheat bagel	84				1							
1 medium banana	1						1					
1 cup fat free milk	126							1				
1 Tbsp cream cheese, fat free	75											
Lunch												
chicken breast sandwich:												
2 slices (3 oz) chicken breast, skinless	65								1			
2 slices whole wheat bread	299				2							
1 slice (3/4 oz) American	328	1 slice (3/4 c	oz) Swiss	54				1/2				
cheese, reduced fat		cheese,	•									
1 large leaf romaine lettuce	1					1/4						
2 slices tomato	4					1/2						
1 Tbsp mayonnaise, lowfat	90										1	
1 medium peach	0						1					
1 cup apple juice	7						11/3					
<b>Dinner</b> 3/4 cup vegetarian spaghetti sauce*	459		no-salt-added aste (6 oz)*	260		11/2						
1 cup spaghetti	1		X		2							
3 Tbsp Parmesan cheese	349							1/2				
spinach salad:												
1 cup fresh spinach leaves	24					1						
¹/₄ cup fresh carrots, grated	10					1/2						
1/4 cup fresh mushrooms, sliced	1					1/2						
2 Tbsp vinaigrette dressing*	0										3/4	
½ cup corn, cooked from frozen	4					1						
½ cup canned pears, juice pack	4						1					
Snack												
¹/₃ cup almonds	5									1		
1/4 cup dried apricots	3						1					
1 cup fruit yogurt, fat free,	107							1				
no sugar added												
Totals					6	5 <sup>1</sup> / <sub>4</sub>	<b>5⅓</b> ₃	3	1	1	1³/₄	0
		Sodiun	n Level							Sodiu	ım Lev	el
Nutrients Per Day		2,400 mg	1,500 mg	Nutr	ients P	er Day			2	,400 mg		00 mg
Calories		1,977	1,967	Sodi					2	,152 mg	1,57	77 mg
Total fat		60 g	59 g	Calc					1	,351 mg		94 mg
Percent calories from fat		27 %	27 %	······································	nesium					502 mg	50	09 mg
Saturated fat		12 g	13 g	Pota	ssium				4	,513 mg		40 mg
Percent calories from saturated		6 %	6 %							32 g		34 g



				Nun	nber of	DASH	Food	Group	Servi	ngs	
2,400 mg Sodium Menu	Sodium (mg)	Substitutions to Reduce Sodium to 1,500 mg	Sodium (mg)	Grains	Vegetables	Fruits	Dairy foods	Meat, poultry, & fish	Nuts, seeds, & dry beans	Fats and oils	Sweets
Breakfast											
3/4 cup wheat flakes cereal	199	2 cups puffed wheat cereal	1	1							
1 slice whole wheat bread	149			1							
1 medium banana	1					1					
1 cup fat free milk	126						1				
1 cup orange juice	5					<b>1</b> ¹/₃					
1 tsp soft margarine	51	1 tsp soft margarine, unsalted	1							1	
Lunch beef barbeque sandwich:											
2 oz beef, eye of round	35							<sup>2</sup> / <sub>3</sub>			
1 Tbsp barbeque sauce	156										,
2 slices (11/2 oz) cheddar	260	2 slices (1½ oz) Swiss	109				1				
cheese, reduced fat		cheese, natural									ļ
1 sesame roll	319			1							
1 large leaf romaine lettuce	1				1/4						
2 slices tomato	22				1/2						
1 cup new potato salad*	12				2						
1 medium orange	0					1					
Dinner											
3 oz cod:	89							1			
1 tsp lemon juice	1										
//₂ cup brown rice, long grain	5			1							
//₂ cup spinach, cooked	88				1						
from frozen											
1 small corn bread muffin	363	1 small white dinner roll	146	1							
1 tsp soft margarine	51	1 tsp soft margarine, unsalted	1							1	
Snack 1 cup fruit yogurt, fat free, no added sugar	107						1				
1/4 cup dried fruit	6					1					
2 large graham cracker rectangles	156			1							
1 Tbsp peanut butter,	101	1 Tbsp peanut butter,	3						1/		
reduced fat	101	unsalted	3						1/2		
Totals				6	33/4	41/3	3	1²/ <sub>3</sub>	1/2	2	

	Sodiur	n Level		Sodium Level			
Nutrients Per Day	2,400 mg	1,500 mg	Nutrients Per Day	2,400 mg	1,500 mg		
Calories	1,984	1,958	Sodium	2,303 mg	1,519 mg		
Total fat	44 g	46 g	Calcium	1,490 mg	1,502 mg		
Percent calories from fat	20 %	21 %	Magnesium	495 mg	526 mg		
Saturated fat	12 g	13 g	Potassium	4,752 mg	4,759 mg		
Percent calories from saturated fat	5 %	6 %	Fiber	29 g	30 g		
Cholesterol	146 mg	137 mg		-			



				Nun	ber of	DASH	Food	Group	Servi	ngs	
2,400 mg Sodium Menu	Sodium (mg)	Substitutions to Reduce Sodium to 1,500 mg	Sodium (mg)	Grains	Vegetables	Fruits	Dairy foods	Meat, poultry, & fish	Nuts, seeds, & dry beans	Fats and oils	Sweets
Breakfast											•••••
³/ <sub>4</sub> cup cornflakes	223	1/2 cup corn grits, with 1 tsp nonfat margarine, unsalted	1 1	1							
1/2 cup fruit yogurt, fat free, no added sugar	53	7					1/2				
1 medium apple	0					1					
1 cup grape juice	8					11/3					
1 cup fat free milk	126						1				
Lunch											
ham and cheese sandwich:											
2 oz smoked ham, lowfat, low sodium	469	2 oz roast beef, low fat	35					2/3			
1 slice ( <sup>3</sup> / <sub>4</sub> oz) cheddar cheese, natural, reduced fat	130						1/2				
2 slices whole wheat bread	299			2							
1 large leaf romaine lettuce	1				1/4						
2 slices tomato	22				1/2				<u>-</u>		
1 Tbsp mayonnaise, lowfat	90									1	
1 cup carrot sticks	43				2						
Dinner											
chicken and Spanish rice*	367	substitute no-salt-added tomato sauce (4 oz)*	226	1				1			
1/2 cup green peas, cooked from frozen	70	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			1						
1 cup cantaloupe	14					2			<del>-</del>		
1 small whole wheat roll	148			1							
1 cup fat free milk	126						1		İ		
1 tsp soft margarine	51	1 tsp soft margarine, unsalted	1							1	
Snack											
⅓ cup almonds, unsalted	5								1		
1/2 cup fruit cocktail	5					1					
1 cup apple juice	7					11/3					
Totals				5	3³/₄	6²/ <sub>3</sub>	3	1²/₃	1	2	

	Sodiur	n Level		Sodium Level			
Nutrients Per Day	2,400 mg	1,500 mg	Nutrients Per Day	2,400 mg	1,500 mg		
Calories	2,011	2,050	Sodium	2,259 mg	1,441 mg		
Total fat	51 g	52 g	Calcium	1,200 mg	1,203 mg		
Percent calories from fat	23 %	23 %	Magnesium	491 mg	502 mg		
Saturated fat	9 g	9 g	Potassium	5,152 mg	4,914 mg		
Percent calories from saturated fat	4 %	4 %	Fiber	32 g	32 g		
Cholesterol	122 ma	142 ma					

2,400 mg Sodium Menu				Number of DASH Food Group Servings						ıgs	,
	Sodium (mg)	Substitutions to Reduce Sodium to 1,500 mg		Grains	Vegetables	Fruits	Dairy foods	Meat, poultry, & fish	Nuts, seeds, & dry beans	Fats and oils	Sweets
Breakfast											
3/4 cup frosted shredded wheat	3			1							
2 slices whole wheat bread	299			2							
1 medium banana	1					1					
1 cup fat free milk	126						1				
1 cup orange juice	5					<b>1</b> ½					
1 tsp soft margarine	51	1 tsp soft margarine, unsalted	1							1	
2 tsp jelly, no added sugar	0										
Lunch salad plate:											
½ cup tuna salad*	158						•••••	1			
1 large leaf romaine lettuce	1				1/4		•••••				
6 wheat crackers, fat free	107	6 wheat crackers, fat free, unsalted	18	1							
1/2 cup cottage cheese, 2%	459	½ cup cottage cheese, 2%, unsalted	23				1/4				
1 cup canned pineapple, juice pack	2					2					
4 small celery sticks	59				1/2						
2 Tbsp ranch dressing, fat free	306	2 Tbsp yogurt dressing, fat free*	84								
Dinner											
3 oz turkey meatloaf**	62							1			
1 Tbsp catsup	178	2 tsp catsup	119								
1 small baked potato:	7		1		1						
1 tsp soft margarine	51	1 tsp soft margarine, unsalted								1	
1 Tbsp sour cream, lowfat	15										
1 scallion stalk, chopped	2										
1 cup collard greens, cooked	15				2						
from frozen											
1 medium peach	0					1					
1 cup fat free milk	126						1				
Snack											
1 Tbsp peanut butter, reduced fat	101	Tbsp peanut butter,     reduced fat, unsalted	3						1/2		
½ medium bagel	152			1							
(3-inch diameter)											
½ cup fruit yogurt, fat free, no added sugar	53						1/2				
		·	:	:	:	:			. :	:	

	Sodiur	n Level		Sodium Level			
Nutrients Per Day	2,400 mg	1,500 mg	Nutrients Per Day	2,400 mg	1,500 mg		
Calories	1,947	1,941	Sodium	2,495 mg	1,493 mg		
Total fat	38 g	40 g	Calcium	1,293 mg	1,360 mg		
Percent calories from fat	17 %	19 %	Magnesium	429 mg	475 mg		
Saturated fat	9 g	10 g	Potassium	4,609 mg	4,826 mg		
Percent calories from saturated fat	4 %	5 %	Fiber	27 g	30 g		
Cholesterol	153 ma	153 ma		3-2-			



							d Group	"	•••••	:
Sodium (mg)	Sodium 1,500 mg	Sodium (mg)	Grains	Vegetables	Fruits	Dairy foods	Meat, poultry, & fish	Nuts, seeds, & dry beans	Fats and oils	Sweets
						••••••			•	
71			1/2							
1					1					
107						1		ļ		
2					<b>1</b> ⅓					
126						1				
ΛQ							1	ļ		<u></u>
			ი				<u> </u>	<u> </u>		<u> </u>
	2 clicos (11/ 07) choddor	2								
∠60		3				1				
										Í
	rat, low sodium			-1/				ļ		ļ
				\$				ļ		
				72				ļ	2/	<u></u>
··· <del>·</del> ·····	4.1								²/ <sub>3</sub>	
····	1 tsp regular mustard	60						<u> </u>		<u></u>
44				2						
								ļļ.		
0					1					
							1			
			2							<u></u>
88				1						
96				2						
4.40										
···· <del>;</del> ······	4 to		1					ļķ		ļ
51		1							1	
106	unsaited							<u> </u>		
120						I				
156	3 rice cakes (3 inches in	7	1							
	diameter), unsalted									
126						1				
3					1					<u> </u>
			~41	-2/-	-41				.21	
<b>.</b>			672	51/4	<b>4</b> 1/3	5	2			0
		Nutr	iente D	er Dav			2			⁄el 00 mg
				Si Day						68 mg
										51 mg
										72 mg
										75 mg
ed fat	4 % 3 %	Fibe						34 g		35 g
	71 107 2 126 48 299 260 11 22 60 372 44 0 93 3 88 96 148 51 126 156 156 3	71 1 1 1 107 2 126 48 299 260 2 slices (1½ oz) cheddar cheese, natural, reduced fat, low sodium 1 22 60 372 1 tsp regular mustard 44 0 0 93 3 3 88 96 148 51 1 tsp soft margarine, unsalted 126 156 3 rice cakes (3 inches in diameter), unsalted 126 156 3 rice cakes (3 inches in diameter), unsalted 126 3 Sodium Level 2,400 mg 1,500 mg 1,944 1,927 31 g 28 g 14 % 13 % 8 g 7 g	71 1 107 2 126 3 260 2 slices (1½ oz) cheddar cheese, natural, reduced fat, low sodium 1 22 60 372 1 tsp regular mustard 60 44 0 93 3 3 88 96 148 51 1 tsp soft margarine, unsalted 126 156 3 rice cakes (3 inches in diameter), unsalted 126 3  Sodium Level 2,400 mg 1,500 mg Nutr diameter), unsalted 126 3  Sodium Level 2,400 mg 1,500 mg Nutr Nutr Nutr Nutr Nutr Nutr Nutr Nutr	71	71	71	71	71	Title	71



				Number of DASH Food Group Servings							
2,400 mg Sodium Menu	Sodium (mg)	Substitutions to Reduce Sodium to 1,500 mg	Sodium (mg)	Grains	Vegetables	Fruits	Dairy foods	Meat, poultry, & fish	Nuts, seeds, & dry beans	Fats and oils	Sweets
Breakfast											
1 cup whole grain oat rings cereal	212	1/2 cup regular oatmeal with 1 tsp cinnamon	1	1							
1 medium banana	1					1					
1 cup fruit yogurt, fat free, no sugar added	107						1				
1 cup fat free milk	126						1				
Lunch tuna salad sandwich:											
1/2 cup tuna, drained, rinsed	57							1			
1 Tbsp mayonnaise, lowfat	90							1		1	
1 large leaf romaine lettuce	1				1/4						
2 slices tomato	22				1/2						
2 slices whole wheat bread	299			2	/2						
1 medium apple	0					1					
1 cup fat free milk	126					•	1				
Dinner											
⅓ recipe zucchini lasagna*	380	substitute unsalted cottage cheese in recipe*	196	3	1		1				
salad:											
1/2 cup fresh spinach leaves	12				1/2						
1/2 cup tomatoes wedges	8				1						
2 Tbsp croutons, seasoned	62	2 Tbsp croutons, plain	26	1/4							
2 Tbsp vinaigrette dressing, reduced fat	312	2 Tbsp vinaigrette dressing**	0							3/4	
1 small whole wheat roll	148			1							
1 cup grape juice	7					11/3					
1 tsp soft margarine	51	1 tsp soft margarine, unsalted	1							1	
Snack ⅓ cup almonds, unsalted	5								1		
2 slices (1½ oz) cheddar	260						1		·		
cheese, natural, reduced fat							•				
6 whole wheat crackers	166	3 large rye wafer crackers, unsalted	1	1							
								**************************************			

Sodium Level				Sodium Level			
Nutrients Per Day	2,400 mg	1,500 mg	Nutrients Per Day	2,400 mg	1,500 mg		
Calories	1,980	1,966	Sodium	2,471 mg	1,498 mg		
Total fat	60 g	56 g	Calcium	1,587 mg	1,589 mg		
Percent calories from fat	27 %	26 %	Magnesium	527 mg	527 mg		
Saturated fat	12 g	12 g	Potassium	4,556 mg	4,588 mg		
Percent calories from saturated fat	6 %	5 %	Fiber	31 g	31 g		
Cholesterol	72 mg	76 mg					

#### RECIPES FOR HEART HEALTH

Here are some recipes to help you cook up a week of tasty heart healthy meals. If you're following the DASH eating plan at 1,500 milligrams of sodium per day or just want to reduce your sodium intake, use the suggested recipe changes.

#### Chicken Salad (Day 1) 31/4 Makes 5 servings. chicken, cooked, cubed, skinless Serving size: 3/4 cup cup 1/4 cup celery, chopped Per Serving: Tbsp lemon juice 1 201 mg Calories Sodium 1/2 tsp onion powder Total fat Calcium 17 mg g 1/8 tsp salt 2 g Saturated fat Magnesium 25 mg 3 Tbsp mayonnaise, lowfat 78 mg Cholesterol Potassium 240 mg 0 g Fiber

- 1. Bake chicken, cut into cubes, and refrigerate.
- 2. In a large bowl, combine all ingredients with chilled chicken and mix well.

#### To reduce sodium:

Remove added salt. New sodium total = 127 mg.

#### Yogurt Salad Dressing (Days 1 and 5)

8	oz	plain yogurt, fat free
1/4	cup	mayonnaise, fat free
2	Tbsp	chives, dried
2	Tbsp	dill, dried
2	Tbsp	lemon juice

Mix all ingredients in bowl and refrigerate.

Makes	8	servina	S
IVIAINCS	O	SCI VII IG	J.

Per Serving:

Calories	23
Total fat	0 g
Saturated fat	0 g
Cholesterol	1 mg
Fiber	0 а

#### Serving size: 2 Tbsp

Sodium	84 mg
Calcium	72 mg
Magnesium	10 mg
Potassium	104 ma

#### Vegetarian Spaghetti Sauce (Day 2)

2	Tbsp	olive oil
2	small	onions, chopped
3	cloves	garlic, chopped
11/4	cup	zucchini, sliced
1	Tbsp	oregano, dried
1	Tbsp	basil, dried
1	8 oz can	tomato sauce
1	6 oz can	tomato paste
2	medium	tomatoes, chopped
1	cup	water

- 1. In a medium skillet, heat oil. Sauté onions, garlic, and zucchini in oil for 5 minutes on medium heat.
- 2. Add remaining ingredients and simmer covered for 45 minutes. Serve over spaghetti.

Makes 6 servings.

#### Per Serving:

Calories	102	
Total fat	5 g	
Saturated fat	1 g	
Cholesterol	0 mg	
Fiber	5 g	

Sodium	459 mg
Calcium	42 mg
Magnesium	37 mg
Potassium	623 ma

Serving size: 3/4 cup

#### To reduce sodium:

Use a 6 oz can of no-salt-added tomato paste. New sodium total = 260 mg

#### Vinaigrette Salad Dressing (Day 2)

bulb garlic, separated and peeled 1 1/2 cup water 1 Tbsp red wine vinegar 1/4 tsp honey

Tbsp virgin olive oil 1 1/4 black pepper tsp

Makes 4 servings

Serving size: 2 Tbsp

#### Per Serving:

Calories	33
Total fat	3 g
Saturated fat	1 g
Cholesterol	0 mg
Fiber	0 g

Sodium 0 mg 2 mg Calcium Magnesium 1 mg 9 mg Potassium

- 1. Place the garlic cloves into a small saucepan and pour enough water (about 1/2 cup) to cover them.
- 2. Bring water to a boil, then reduce heat and simmer until garlic is tender, about 15 minutes.
- 3. Reduce the liquid to 2 Tbsp and increase the heat for 3 minutes.
- 4. Pour the contents into a small sieve over a bowl and, with a wooden spoon, mash the garlic through the sieve.
- 5. Whisk the vinegar into the garlic mixture; mix in the oil and seasoning.

#### New Potato Salad (Day 3)

16 small new potatoes (5 cups)
2 Tbsp olive oil
1/4 cup green onions, chopped

1/4 tsp black pepper1 tsp dill weed, dried

- Thoroughly clean the potatoes with a vegetable brush and water.
- 2. Boil potatoes for 20 minutes or until tender.
- 3. Drain and cool potatoes for 20 minutes.
- 4. Cut potatoes into fourths and mix with olive oil, onions, and spices.
- 5. Refrigerate and serve.

Makes 5 servings.

#### Per Serving:

Calories	187
Total fat	6 g
Saturated fat	1 g
Cholesterol	0 mg
Fiber	3 g

Sodium	12 mg
Calcium	21 mg
Magnesium	36 mg
Potassium	547 mg

Serving size: 1 cup

#### Chicken and Spanish Rice (Day 4)

1	cup	onions, chopped
1/4	cup	green peppers
2	tsp	vegetable oil
1	8 oz can	tomato sauce
1	tsp	parsley, chopped
1/2	tsp	black pepper
11/4	tsp	garlic, minced
5	cup	cooked rice (in unsalted water)
31/2	cup	chicken breast, cooked (skin and
		bone removed), diced

- 1. In a large skillet, sauté onions and green peppers in oil for 5 minutes on medium heat.
- 2. Add tomato sauce and spices. Heat through.
- 3. Add cooked rice and chicken, and heat through.

Makes 5 servings.

#### Per Serving:

Calories	406
Total fat	6 g
Saturated fat	2 g
Cholesterol	75 mg
Fiber	2 g
•••••	

Sodium	367	mg
Calcium	45	mg
Magnesium	57	mg
Potassium	527	mg

Serving size: 11/2 cups

#### To reduce sodium:

Use one 4 oz can of no-salt-added tomato sauce and one 4 oz can of regular tomato sauce. New sodium total = 226 mg.

#### Tuna Salad (Day 5)

2	6 oz can	tuna, water pack
1/2	cup	raw celery, chopped
1/3	cup	green onions, chopped
61/2	Tbsp	mayonnaise, reduced fat

Rinse and drain tuna for 5 minutes.
 Break apart with a fork.

2. Add celery, onion, and may onnaise, and mix well.

Makes 5 servings.

#### Per Serving:

Calories	146	
Total fat	7	g
Saturated fat	0	g
Cholesterol	25	mg
Fiber	1	g

Sodium	158	mg
Calcium	15	mg
Magnesium	19	mg
Potassium	201	mg
•		

Serving size: 1/2 cup

#### Turkey Meatloaf (Day 5)

1 pound ground turkey, lean

1/2 cup oats, regular, dry

1 large egg, whole

1 Tbsp onion, dehydrated

1/4 cup catsup

1. Combine all ingredients and mix well.

- 2. Bake in a loaf pan at 350° F for 25 minutes or to internal temperature of 165° F.
- 3. Cut into five slices and serve.

Makes 5 servings.

### Per Serving:

Calories	196	
Total fat	7	g
Saturated fat	2	g
Cholesterol	103	mg
Fiber	1	g

 Sodium
 217 mg

 Calcium
 33 mg

 Magnesium
 35 mg

 Potassium
 292 mg

Serving size: 1 slice (3 oz)

#### Spicy Baked Fish (Day 6)

1 pound cod (or other fish) fillet

1 Tbsp olive oil

1 tsp spicy seasoning, salt free

- 1. Preheat oven to 350° F. Spray a casserole dish with cooking oil spray.
- Wash and dry fish. Place in dish. Mix oil and seasoning, and drizzle over fish.
- 3. Bake uncovered for 15 minutes or until fish flakes with fork. Cut into 4 pieces. Serve with rice.

Makes 4 servings.

#### Per Serving:

Calories	133	
Total fat	1	g
Saturated fat	0	g
Cholesterol	77	mg
Fiber	0	q

Sodium	119 mg
Calcium	20 mg
Magnesium	67 mg
Potassium	394 mg

Serving size: 1 piece (3 oz)

#### Scallion Rice (Day 6)

 $4\frac{1}{2}$  cups cooked rice (in unsalted water)  $1\frac{1}{2}$  tsp bouillon granules, unsalted  $\frac{1}{4}$  cup scallions (green onions), chopped

1. Cook rice according to directions on the package.

- 2. Combine the cooked rice, scallions, and bouillon granules, and mix well.
- 3. Measure 1 cup portions and serve.

Makes 5 servings.

Serving size: 1 cup

#### Per Serving:

Calories	185	
Total fat	1	g
Saturated fat	0	g
Cholesterol	0	mg
Fiber	1	g

Sodium	3 mg
Calcium	24 mg
Magnesium	20 mg
Potassium	80 mg

#### Zucchini Lasagna (Day 7)

1/2	pound	cooked lasagna noodles (in unsalted water)
3/4	cup	mozzarella cheese, part-skim, grated
1 1/2	cup	cottage cheese, fat free
1/4	cup	Parmesan cheese, grated
11/2	cup	zucchini, raw, sliced
21/2	cup	tomato sauce, no salt added
2	tsp	basil, dried
2	tsp	oregano, dried
1/4	cup	onion, chopped
1	clove	garlic
1/8	tsp	black pepper

Makes 6 servings.

1. Preheat oven to 350° F. Lightly spray a 9 x 13 inch baking dish with vegetable oil spray.

- 2. In a small bowl, combine ½ cup mozzarella and 1 Tbsp Parmesan cheese. Set aside.
- In a medium bowl, combine remaining mozzarella and Parmesan cheese with all of the cottage cheese. Mix well and set aside.
- 4. Combine tomato sauce with remaining ingredients. Spread a thin layer of tomato sauce in the bottom of the baking dish. Add a third of the noodles in a single layer. Spread half of the cottage cheese mixture on top. Add a layer of zucchini. Repeat layering. Add a thin coating of sauce. Top with noodles, sauce, and reserved cheese mixture. Cover with aluminum foil.
- 5. Bake 30 to 40 minutes. Cool for 10 to 15 minutes. Cut into 6 portions.

### Per Serving:

Calories	276	
Total fat	5	g
Saturated fat	2	g
Cholesterol	11	mg
Fiber	5	g

Sodium	380	mg	
Calcium	216	mg	
Magnesium	55	mg	
Potassium	561	mg	

Serving size: 1 piece

#### To reduce sodium:

Use unsalted cottage cheese. New sodium total = 196 mg.

#### MAKING THE DASH TO GOOD HEALTH

The DASH 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. Here's how:

#### ■ Ask yourself why you got off the 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.

#### ■ Don't worry about a slip.

Everyone slips—especially when learning something new. Remember that changing your lifestyle is a long-term process.

#### ■ 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.

#### ■ 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 simpler. Break complex goals into smaller, simpler steps, each of which is attainable.

#### ■ Write it down.

Use the Table on page 9 to keep track of what you eat. This can help you find the problem. Besides noting what you eat, also record: where you are, what you're doing, and how you feel. Keep track for several days. You may find, for instance, that you eat high fat foods while watching television. If so, you could start keeping a substitute snack on hand to eat instead of the high fat foods. This record also helps you be sure you're getting enough of each food group.

#### ■ Celebrate success.

Treat yourself to a nonfood treat for your accomplishments.

#### WANT TO LEARN MORE?

For more information about the DASH studies and eating plan, visit the special Web site at http://dash.bwh.harvard.edu.

Bulk copies of this DASH diet fact sheet are available at a minimal cost from the NHLBI Health Information Center, P.O. Box 30105, Bethesda, MD 20824-0105.

For more about hypertension, visit the NHLBI's online guide to lowering high blood pressure. It can be found through the NHLBI Web site at http://www.nhlbi.nih.gov—look for special Web pages. It and the NHLBI Web site also have the publication, "Facts About Lowering Blood Pressure." Or, order it from the NHLBI Health Information Center—ask for NIH Publication No. 00-3281.

The NHLBI Web site has information on other heart-related topics too. Or, to obtain information on other topics, write to the NHLBI Health Information Center.

To hear recorded messages about high blood pressure prevention and treatment, call toll-free 1-800-575-WELL(9355). The information line also has messages on high blood cholesterol. The messages are available in English and Spanish.

## WHO HELPED WITH DASH?

The DASH study was sponsored by the NHLBI and conducted at four medical centers. There was also a central coordinating center at Kaiser Permanente Center for Health Research in Portland, OR.

The four medical centers were: Brigham and Women's Hospital, Boston, MA; Duke University Medical Center, Durham, NC; Johns Hopkins University, Baltimore, MD; Pennington Biomedical Research Center, Louisiana State University, Baton Rouge, LA.

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

Public Health Service
National Institutes of Health
National Heart, Lung, and Blood Institute

NIH Publication No. 01-4082 Originally Printed 1998 Reprinted February 1999 Revised May 2001