

# What I need to know about Eating and Diabetes



# What I need to know about Eating and Diabetes



NATIONAL INSTITUTES OF HEALTH  
National Diabetes Information Clearinghouse

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## How food affects your blood glucose

Whether you have type 1 or type 2 diabetes, what, when, and how much you eat all affect your blood glucose. Blood glucose is the main sugar found in the blood and the body's main source of energy.

If you have diabetes (or impaired glucose tolerance), your blood glucose can go too high if you eat too much. If your blood glucose goes too high, you can get sick.

Your blood glucose can also go too high or drop too low if you don't take the right amount of diabetes medicine.

If your blood glucose stays high too much of the time, you can get heart, eye, foot, kidney, and other problems. You can also have problems if your blood glucose gets too low (hypoglycemia).

Keeping your blood glucose at a healthy level will prevent or slow down diabetes problems. Ask your doctor or diabetes teacher what a healthy blood glucose level is for you.

## Blood glucose levels

### What should my blood glucose levels be?

For most people, target blood glucose levels are

Before meals	90 to 130
1 to 2 hours after the start of a meal	less than 180

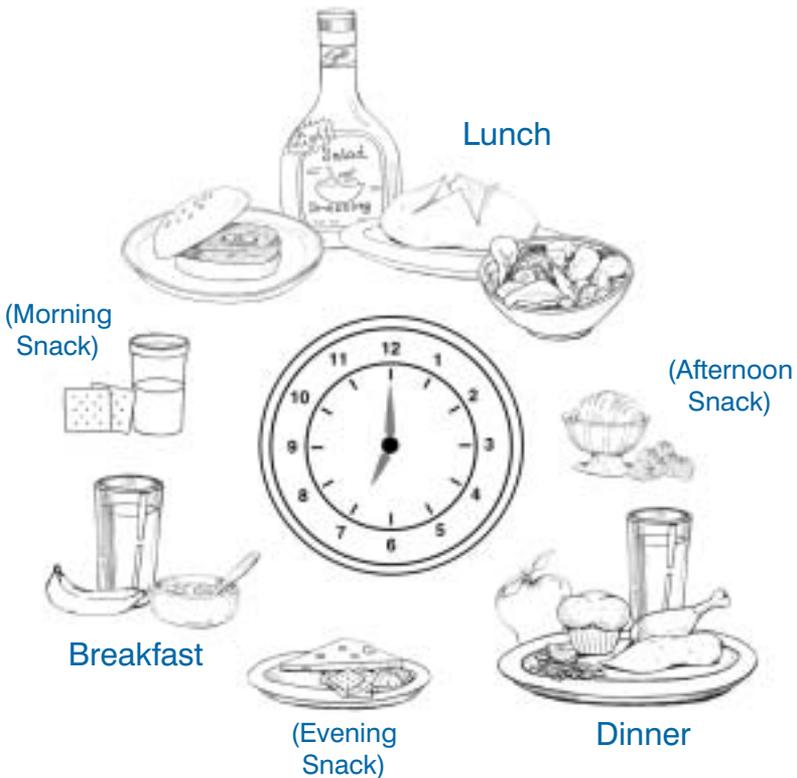
Talk with your health care provider about your blood glucose target levels and write them here.

Before meals	_____ to _____
1 to 2 hours after the start of a meal	less than _____

Ask your doctor how often you should check your blood glucose. The results from your blood glucose checks will tell you if your diabetes care plan is working. Also ask your doctor for an A1C test at least twice a year. Your A1C number gives your average blood glucose for the past 3 months.

# How can I keep my blood glucose at a healthy level?

- Eat about the same amount of food each day.
- Eat your meals and snacks at about the same times each day.
- Do not skip meals or snacks.
- Take your medicines at the same times each day.
- Exercise at about the same times each day.



## **Why should I eat about the same amount at the same times each day?**

Your blood glucose goes up after you eat. If you eat a big lunch one day and a small lunch the next day, your blood glucose levels will change too much.

Keep your blood glucose at a healthy level by eating about the same amount of carbohydrate foods at about the same times each day.

Carbohydrate foods, also called carbs, provide glucose for energy. Starches, fruits, milk, starchy vegetables such as corn, and sweets are all carbohydrate foods.

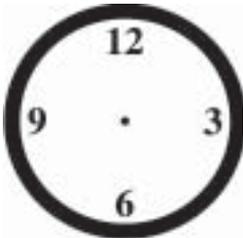
Talk with your doctor or diabetes teacher about how many meals and snacks to eat each day. Fill in the times for your meals and, if necessary, snacks on these clocks.



Breakfast



Morning Snack



Lunch



Afternoon Snack



Dinner



Evening Snack

## Your diabetes medicines

What you eat and when affects how your diabetes medicines work. Talk with your doctor or diabetes teacher about the best times to take your diabetes medicines based on your meal plan. Fill in the names of your diabetes medicines, when to take them, and how much to take. Draw hands on the clocks to show when to take your medicines.



Name of medicine: \_\_\_\_\_

Time: \_\_\_\_\_ Meal: \_\_\_\_\_

How much: \_\_\_\_\_



Name of medicine: \_\_\_\_\_

Time: \_\_\_\_\_ Meal: \_\_\_\_\_

How much: \_\_\_\_\_



Name of medicine: \_\_\_\_\_

Time: \_\_\_\_\_ Meal: \_\_\_\_\_

How much: \_\_\_\_\_



Name of medicine: \_\_\_\_\_

Time: \_\_\_\_\_ Meal: \_\_\_\_\_

How much: \_\_\_\_\_

## Your exercise plan

What you eat and when also depend on how much you exercise. Exercise is an important part of staying healthy and controlling your blood glucose. Physical activity should be safe and enjoyable, so talk with your doctor about what types of exercise are right for you. Whatever kind of exercise you do, here are some special things that people with diabetes need to remember:

- Take care of your feet. Make sure your shoes fit properly and your socks stay clean and dry. Check your feet for redness or sores after exercising. Call your doctor if you have sores that do not heal.
- Drink about 2 cups of water before you exercise, about every 20 minutes during exercise, and after you finish, even if you don't feel thirsty.
- Warm up and cool down for 5 to 10 minutes before and after exercising. For example, walk slowly at first, then walk faster. Finish up by walking slowly again.
- Test your blood glucose before and after exercising. Do not exercise if your fasting blood glucose level is above 300. Eat a small snack if your blood glucose is below 100.
- Know the signs of low blood glucose (hypoglycemia) and how to treat it.

## Hypoglycemia

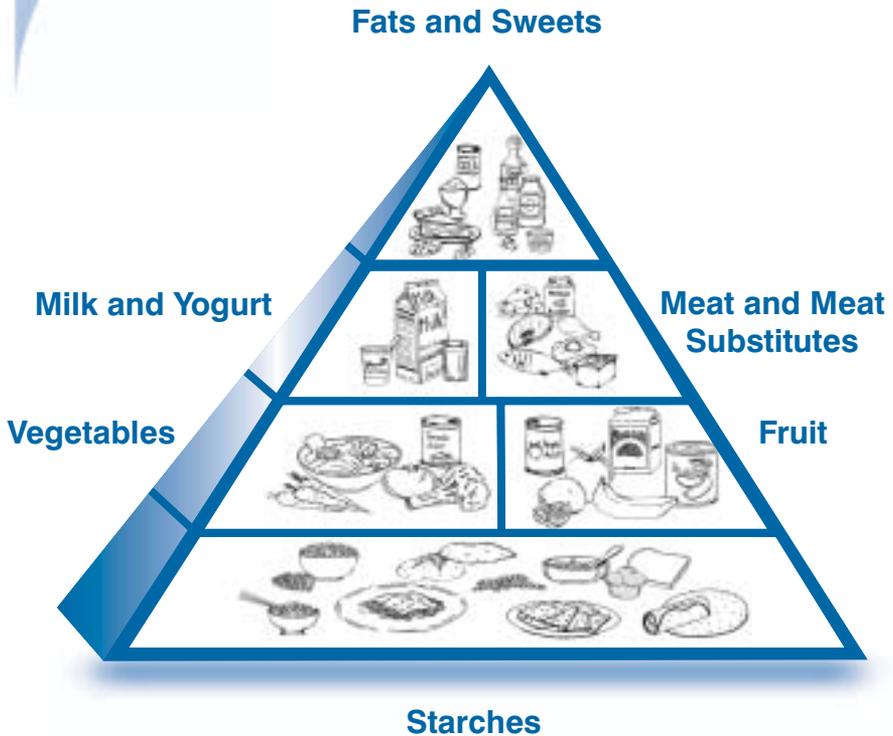
You should know the signs of hypoglycemia (low blood sugar) such as feeling weak or dizzy, sweating more, noticing sudden changes in your heartbeat, or feeling hungry. If you experience these symptoms, stop exercising and test your blood glucose. If it is 70 or less, eat one of the following right away:

- 2 or 3 glucose tablets
- 1/2 cup (4 ounces) of any fruit juice
- 1/2 cup of a regular (not diet) soft drink
- 1 cup (8 ounces) of milk
- 5 or 6 pieces of hard candy
- 1 or 2 teaspoons of sugar or honey

After 15 minutes, test your blood glucose again to find out whether it has returned to a healthier level. Once blood glucose is stable, if it will be at least an hour before your next meal, it's a good idea to eat a snack.

To be safe when you exercise, carry something to treat hypoglycemia, such as glucose tablets or hard candy. Another good idea is to wear a medical identification bracelet or necklace (in case of emergency). Teach your exercise partners the signs of hypoglycemia and what to do about it.

# The food pyramid



Eat a variety of food to get the vitamins and minerals you need. See pages 10, 11, and 12 to find out how much to eat from each food group. Eat more from the groups at the bottom of the pyramid, and less from the groups at the top.

## How much should I eat each day?

Have about **1,200 to 1,600 calories** a day if you are

- a small woman who exercises
- a small or medium woman who wants to lose weight
- a medium woman who does not exercise much

Choose this many servings from these food groups to have **1,200 to 1,600 calories** a day:

6 starches	2 milk and yogurt
3 vegetables	2 meat or meat substitute
2 fruit	up to 3 fats

Talk with your diabetes teacher to make a meal plan that fits the way you usually eat, your daily routine, and your diabetes medicines. Then make your own plan.

Have about **1,600 to 2,000 calories** a day if you are

- a large woman who wants to lose weight
- a small man at a healthy weight
- a medium man who does not exercise much
- a medium to large man who wants to lose weight

Choose this many servings from these food groups to have **1,600 to 2,000 calories** a day:

8 starches	2 milk and yogurt
4 vegetables	2 meat or meat substitute
3 fruit	up to 4 fats

Talk with your diabetes teacher to make a meal plan that fits the way you usually eat, your daily routine, and your diabetes medicines. Then make your own plan.

Have about **2,000 to 2,400 calories** a day if you are

- a medium to large man who does a lot of exercise or has a physically active job
- a large man at a healthy weight
- a large woman who exercises a lot or has a physically active job

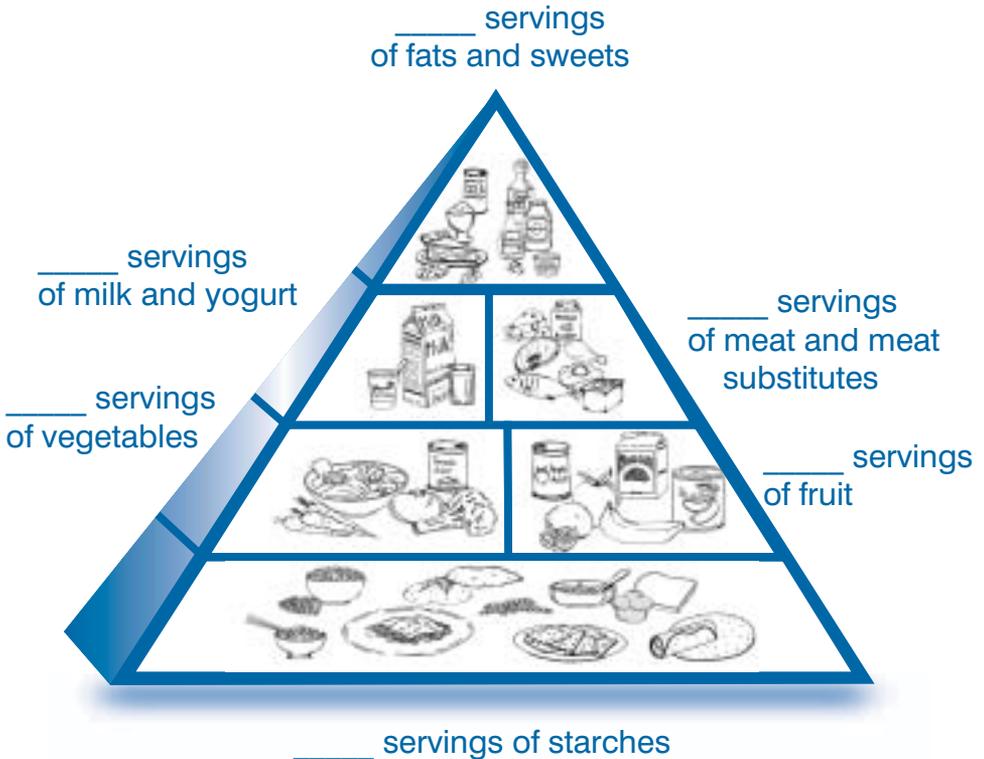
Choose this many servings from these food groups to have **2,000 to 2,400 calories** a day:

11 starches	2 milk and yogurt
4 vegetables	2 meat or meat substitute
3 fruit	up to 5 fats

Talk with your diabetes teacher to make a meal plan that fits the way you usually eat, your daily routine, and your diabetes medicines. Then make your own plan.

# Make your own food pyramid

Each day, I need

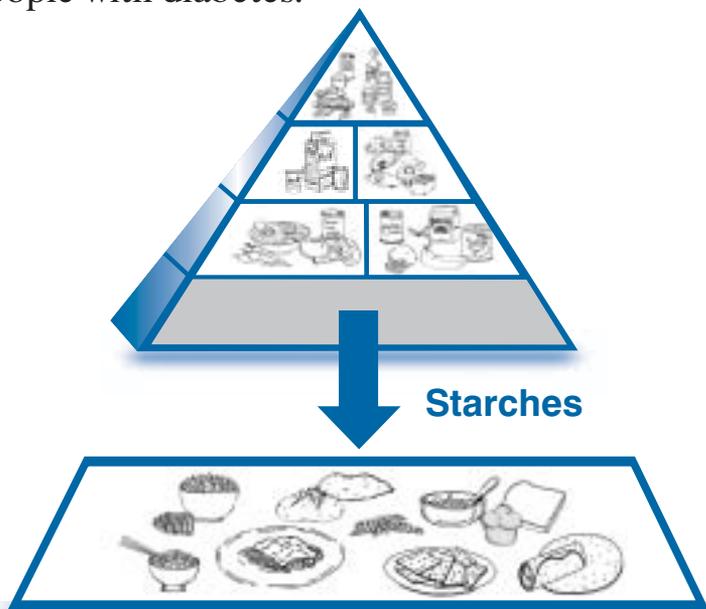


On pages 38 and 39, you can make your own meal plan. Write down how many servings to have at your meals (and snacks).

## Starches

Starches are bread, grains, cereal, pasta, or starchy vegetables like corn and potatoes. They give your body energy, vitamins, minerals, and fiber. Whole grain starches are healthier because they have more vitamins, minerals, and fiber.

Eat some starches at each meal. People might tell you not to eat starches, but that is not correct. Eating starches is healthy for everyone, including people with diabetes.



Examples of starches include

- bread
- pasta
- corn
- potatoes
- rice
- crackers
- tortillas
- beans
- yams

# How much is a serving of starch?

## Examples of 1 serving:



OR



OR



OR



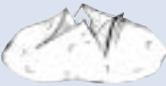
1 slice of  
bread

1 small  
potato

1/2 cup cooked  
cereal or 3/4 cup  
dry cereal flakes

1 small  
tortilla

## Examples of 2 servings:



+



OR



1 small  
potato

1 small ear  
of corn

2 slices  
of bread

## Examples of 3 servings:



+



+



OR



1 small  
roll

1/2 cup  
of peas

1 small  
potato

1 cup  
of rice

If you have more than one serving at a meal, you can choose several different starches or have two or three servings of one starch.

1. How many servings of grains, cereals, pasta, and starchy vegetables (starches) do you **now** eat each day?

I eat \_\_\_\_\_ starch servings each day.

2. Go back to page 10, 11, or 12 to check how many servings of starches to have each day.

I **will** eat \_\_\_\_\_ starch servings each day.

To control your blood glucose, spread the servings you eat throughout the day.

3. I will eat this many servings of starches at

Breakfast \_\_\_\_\_      Snack \_\_\_\_\_

Lunch \_\_\_\_\_      Snack \_\_\_\_\_

Dinner \_\_\_\_\_      Snack \_\_\_\_\_

A diabetes teacher can help you with your meal plan.

## What are healthy ways to eat starches?

- Buy whole grain breads and cereals.
- Eat fewer fried and high-fat starches such as regular tortilla chips and potato chips, french fries, pastries, or biscuits. Try pretzels, fat-free popcorn, baked tortilla or potato chips, baked potatoes, or low-fat muffins.



- Use low-fat or fat-free yogurt or fat-free sour cream instead of regular sour cream on a baked potato.

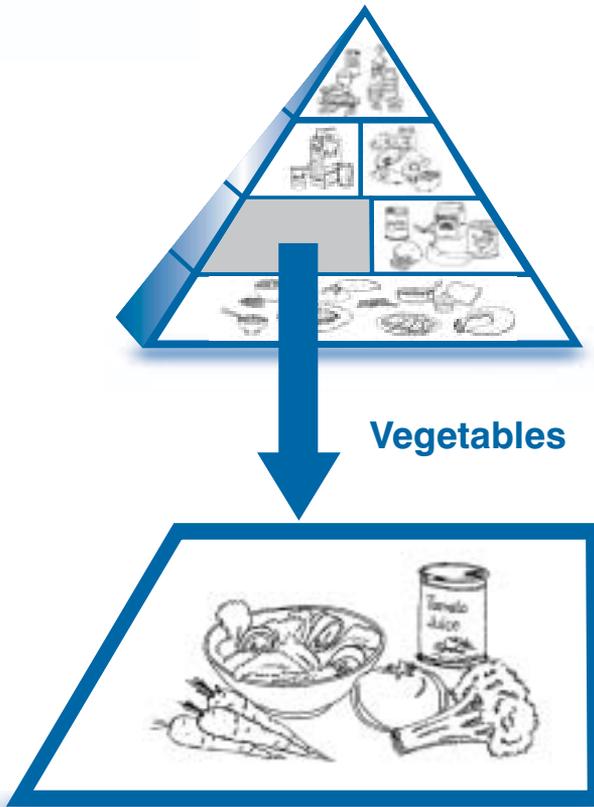


- Use mustard instead of mayonnaise on a sandwich.
- Use the low-fat or fat-free substitutes such as low-fat mayonnaise or light margarine on bread, rolls, or toast.
- Eat cereal with fat-free (skim) or low-fat (1%) milk.



# Vegetables

Vegetables give you vitamins, minerals, and fiber, with very few calories.



Examples of vegetables include

- lettuce
- peppers
- salsa
- broccoli
- carrots
- chilies
- vegetable juice
- green beans
- greens

# How much is a serving of vegetables?

## Examples of 1 serving:



1/2 cup  
cooked carrots

OR



1/2 cup  
cooked  
green beans

OR



1 cup  
salad

## Examples of 2 servings:



1/2 cup  
cooked  
carrots

+



1 cup  
salad

OR



1/2 cup  
vegetable  
juice

+



1/2 cup  
cooked  
green beans

## Examples of 3 servings:



1/2 cup  
cooked  
greens

+



1/2 cup cooked  
green beans  
and 1 small  
tomato

OR



1/2 cup  
broccoli

+



1 cup  
tomato  
sauce

If you have more than one serving at a meal, you can choose a few different types of vegetables or have two or three servings of one vegetable.

1. How many servings of vegetables do you **now** eat each day?

I eat \_\_\_\_\_ vegetable servings each day.

2. Go back to page 10, 11, or 12 to check how many servings of vegetables to have each day.

I **will** eat \_\_\_\_\_ vegetable servings each day.

To control your blood glucose, spread the servings you eat throughout the day.

3. I will eat this many servings of vegetables at

Breakfast \_\_\_\_\_ Snack \_\_\_\_\_

Lunch \_\_\_\_\_ Snack \_\_\_\_\_

Dinner \_\_\_\_\_ Snack \_\_\_\_\_

A diabetes teacher can help you with your meal plan.

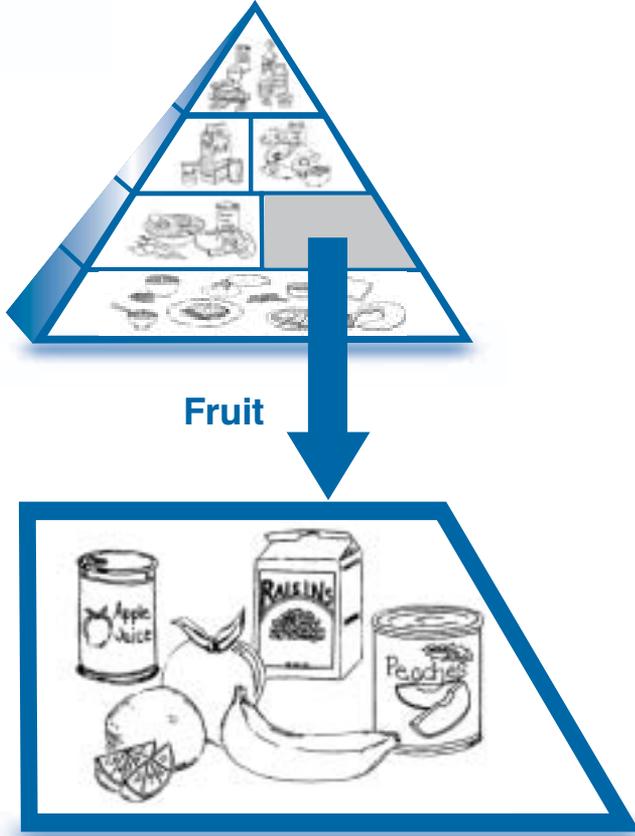
## What are healthy ways to eat vegetables?

- Eat raw and cooked vegetables with little or no fat, sauces, or dressings.
- Try low-fat or fat-free salad dressing on raw vegetables or salads.
- Steam vegetables using a small amount of water or low-fat broth.
- Mix in some chopped onion or garlic.
- Use a little vinegar or some lemon or lime juice.
- Add a small piece of lean ham or smoked turkey instead of fat to vegetables when cooking.
- Sprinkle with herbs and spices. These flavorings add almost no fat or calories.
- If you do use a small amount of fat, use canola oil, olive oil, or soft margarines (liquid or tub types) instead of fat from meat, butter, or shortening.



## Fruit

Fruit gives you energy, vitamins, minerals, and fiber.



Examples of fruit include

- apples
- fruit juice
- strawberries
- bananas
- raisins
- oranges
- mango
- guava
- papaya

# How much is a serving of fruit?

## Examples of 1 serving:



1 small  
apple

OR



1/2 cup juice

OR



1/2 grapefruit

## Examples of 2 servings:



1 banana

OR



1/2 cup  
orange juice

+



1 1/4 cups  
whole  
strawberries

If you have more than one serving at a meal, you can choose different types of fruit or have two servings of one fruit.

1. How many servings of fruit do you **now** eat each day?

I eat \_\_\_\_\_ fruit servings each day.

2. Go back to page 10, 11, or 12 to check how many servings of fruit to have each day.

I **will** eat \_\_\_\_\_ fruit servings each day.

To control your blood glucose, spread the servings you eat throughout the day.

3. I will eat this many servings of fruit at

Breakfast \_\_\_\_\_ Snack \_\_\_\_\_

Lunch \_\_\_\_\_ Snack \_\_\_\_\_

Dinner \_\_\_\_\_ Snack \_\_\_\_\_

A diabetes teacher can help you with your meal plan.

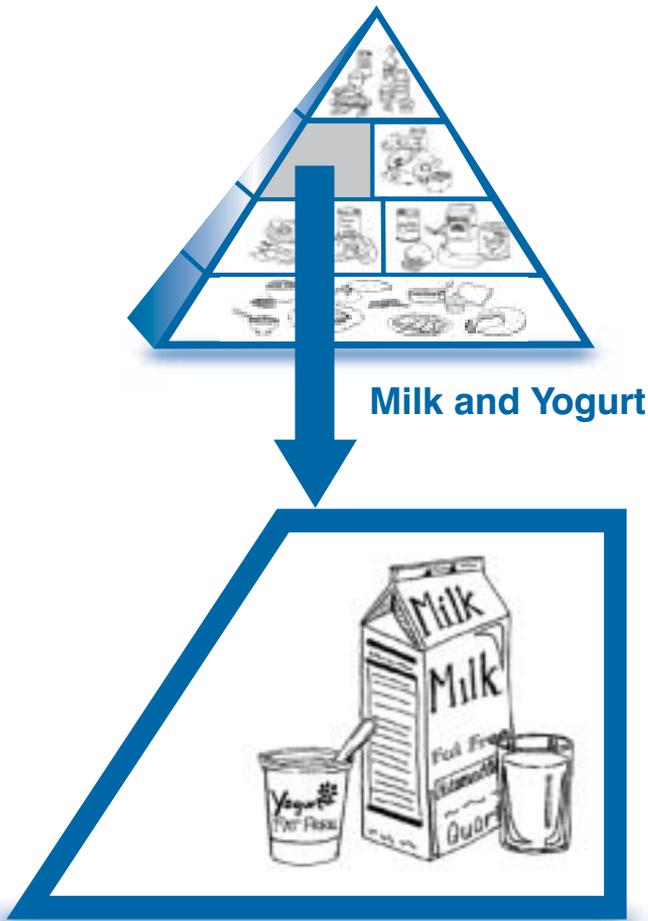
## What are healthy ways to eat fruit?

- Eat fruits raw or cooked, as juice with no sugar added, canned in their own juice, or dried.
- Buy smaller pieces of fruit.
- Eat pieces of fruit rather than drinking fruit juice. Pieces of fruit are more filling.
- Drink fruit juice in small amounts.
- Save high-sugar and high-fat fruit desserts such as peach cobbler or cherry pie for special occasions.



## Milk and yogurt

Milk and yogurt give you energy, protein, fat, calcium, vitamin A, and other vitamins and minerals.



# How much is a serving of milk and yogurt?

## Examples of 1 serving:



1 cup fat-free or  
low-fat yogurt

OR



1 cup skim or  
1% milk

**Note:** If you are pregnant or breastfeeding, have four to five servings of milk and yogurt each day.

1. How many servings of milk and yogurt do you **now** have each day?

I have \_\_\_\_\_ milk and yogurt servings each day.

2. Go back to page 10, 11, or 12 to check how many servings of milk and yogurt to have each day.

I **will** have \_\_\_\_\_ milk and yogurt servings each day.

To control your blood glucose, spread the servings you have throughout the day.

3. I will have this many servings of milk and yogurt at

Breakfast \_\_\_\_\_ Snack \_\_\_\_\_

Lunch \_\_\_\_\_ Snack \_\_\_\_\_

Dinner \_\_\_\_\_ Snack \_\_\_\_\_

A diabetes teacher can help you with your meal plan.

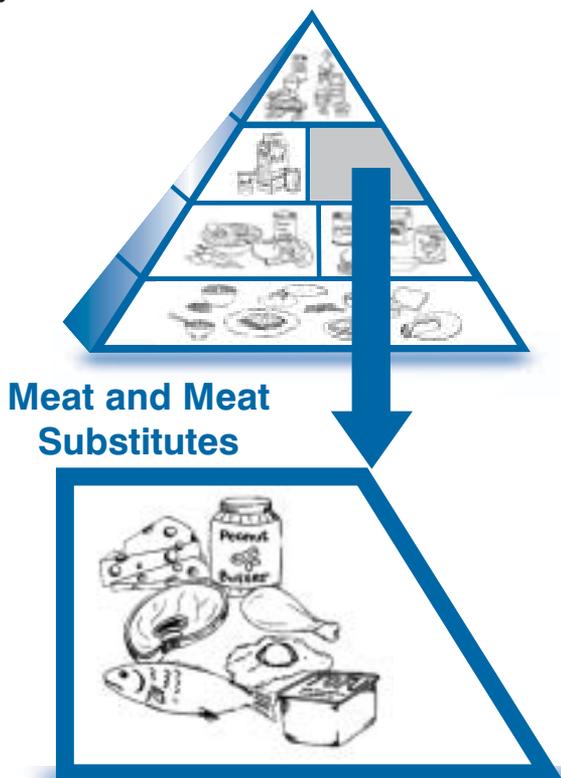
## What are healthy ways to have milk and yogurt?

- Drink fat-free (skim or nonfat) or low-fat (1%) milk.
- Eat low-fat or fat-free fruit yogurt sweetened with a low-calorie sweetener.
- Use low-fat plain yogurt as a substitute for sour cream.

## Meat and meat substitutes

The meat and meat substitutes group includes meat, poultry, eggs, cheese, fish, and tofu. Eat small amounts of some of these foods each day.

Meat and meat substitutes help your body build tissue and muscles. They also give your body energy and vitamins and minerals.



Examples of meat and meat substitutes include

- chicken
- fish
- beef
- eggs
- peanut butter
- tofu
- cheese
- ham
- pork

# How much is a serving of meat or meat substitute?

## Examples of 1 serving:



OR



OR

2 to 3 ounces of  
cooked lean  
meat, chicken,  
or fish\*

1 egg



OR



4 ounces (1/2 cup)  
of tofu

2 tablespoons  
of peanut  
butter

\*Two to three ounces of meat (after cooking) is about the size of a deck of cards.

1. How many servings of meat or meat substitutes do you **now** eat each day?

I eat \_\_\_\_\_ servings of meat or meat substitutes each day.

2. Go back to page 10, 11, or 12 to check how many servings of meat or meat substitutes to have each day.

I **will** eat \_\_\_\_\_ servings of meat or meat substitutes each day.

To control your blood glucose, spread the servings you eat throughout the day.

3. I will eat this many servings of meat or meat substitutes at

Breakfast \_\_\_\_\_      Snack \_\_\_\_\_

Lunch \_\_\_\_\_      Snack \_\_\_\_\_

Dinner \_\_\_\_\_      Snack \_\_\_\_\_

A diabetes teacher can help you with your meal plan.

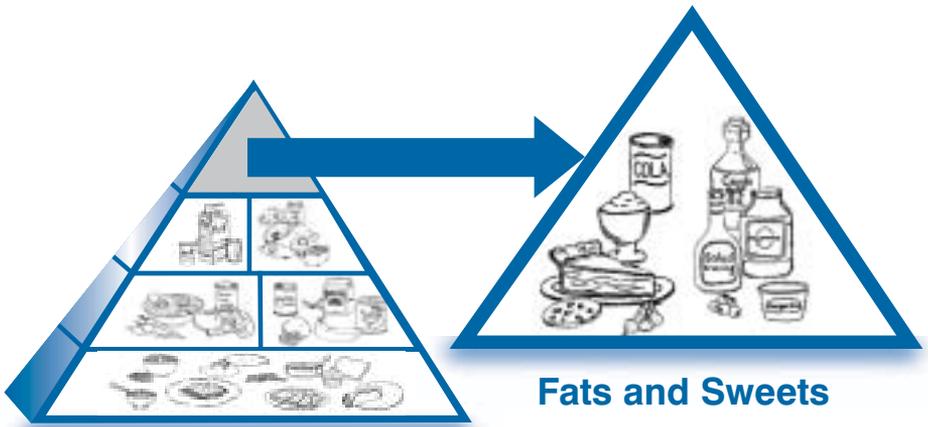
## What are healthy ways to eat meat or meat substitutes?

- Buy cuts of beef, pork, ham, and lamb that have only a little fat on them. Trim off extra fat.
- Eat chicken or turkey without the skin.
- Cook meat or meat substitutes in low-fat ways:
  - broil
  - grill
  - stir-fry
  - roast
  - steam
  - stew
- To add more flavor, use vinegars, lemon juice, soy or teriyaki sauce, salsa, ketchup, barbecue sauce, and herbs and spices.
- Cook eggs with a small amount of fat or use cooking spray.
- Limit the amounts of nuts, peanut butter, and fried chicken that you eat. They are high in fat.
- Choose low-fat or fat-free cheese.



## Fats and sweets

Limit the amounts of fats and sweets you eat. They have calories, but not much nutrition. Some contain saturated fats and cholesterol that increase your risk of heart disease. Limiting these foods will help you lose weight and keep your blood glucose and blood fats under control.



Examples of fats include

- salad dressing
- butter
- avocado
- oil
- margarine
- olives

Examples of sweets include

- regular soda
- cake
- pie
- ice cream
- cookies
- candy

# How much is a serving of sweets?

## Examples of 1 serving:

 **OR**  **OR**  **OR** 

1 3-inch cookie      1 plain cake doughnut      4 chocolate kisses      1 tablespoon maple syrup

# How much is a serving of fat?

## Examples of 1 serving:

 **OR** 

1 strip of bacon      1 teaspoon oil

## Examples of 2 servings:

 **OR**  **+** 

1 tablespoon regular salad dressing      2 tablespoons light salad dressing      1 tablespoon light mayonnaise

## How can I satisfy my sweet tooth?

It's okay to have sweets once in a while. Try having sugar-free popsicles, diet soda, fat-free ice cream or frozen yogurt, or sugar-free hot cocoa mix.

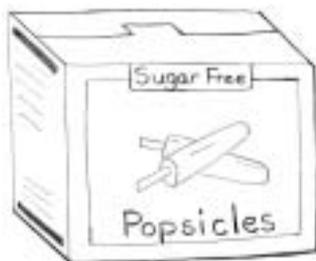


Other tips:

- Share desserts in restaurants.
- Order small or child-size servings of ice cream or frozen yogurt.
- Divide homemade desserts into small servings and wrap each individually. Freeze extra servings.
- Don't keep dishes of candy in the house or at work.



Remember, fat-free and low-sugar foods still have calories. Talk with your diabetes teacher about how to fit sweets into your meal plan.



## Alcohol

Alcohol has calories but no nutrients. If you drink alcohol on an empty stomach, it can make your blood glucose level too low.

Alcohol also can raise your blood fats. If you want to drink alcohol, talk with your doctor or diabetes teacher about how it fits into your meal plan.



# Your meal plan

Plan your meals and snacks for one day.

(Work with your diabetes teacher if you need help.)

## Breakfast

Food Group	Food	How Much
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

## Snack

Food Group	Food	How Much
_____	_____	_____
_____	_____	_____
_____	_____	_____

## Lunch

Food Group	Food	How Much
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**Snack****Food Group****Food****How Much**

_____	_____	_____
_____	_____	_____
_____	_____	_____

**Dinner****Food Group****Food****How Much**

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**Snack****Food Group****Food****How Much**

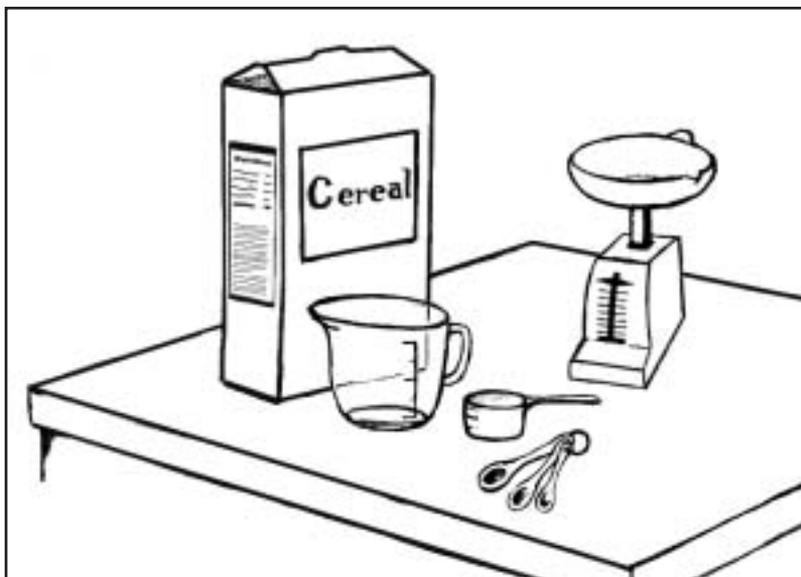
_____	_____	_____
_____	_____	_____
_____	_____	_____

## Measuring your food

To make sure your food servings are the right size, use

- measuring cups
- measuring spoons
- a food scale

Also, the Nutrition Facts label on food packages tells you how much of that food is in one serving.



Weigh or measure foods to make sure you eat the right amounts.

These tips will help you choose the right serving sizes.

- Measure a serving size of dry cereal or hot cereal, pasta, or rice and pour it into a bowl or plate. The next time you eat that food, use the same bowl or plate and fill it to the same level.
- For one serving of milk, measure 1 cup and pour it into a glass. See how high it fills the glass. Always drink milk out of that size glass.
- Meat weighs more before it's cooked. For example, 4 ounces of raw meat will weigh about 3 ounces after cooking. For meat with a bone, like a pork chop or chicken leg, cook 5 ounces raw to get 3 ounces cooked.
- One serving of meat or meat substitute is about the size and thickness of the palm of your hand or a deck of cards.
- A small fist is equal to about 1/2 cup of fruit, vegetables, or starches like rice.
- A small fist is equal to 1 small piece of fresh fruit.
- A thumb is equal to about 1 ounce of meat or cheese.
- The tip of a thumb is equal to about 1 teaspoon.

## When you are sick

It's important to take care of your diabetes even when you're ill. Here are some tips on what to do:

- Even if you can't keep food down, keep taking your diabetes medicine.
- Drink at least one cup (8 ounces) of water or other calorie-free, caffeine-free liquid every hour while you're awake.
- If you can't eat your usual food, try drinking juice or eating crackers, popsicles, or soup.
- If you can't eat at all, drink clear liquids such as ginger ale. Eat or drink something with sugar in it if you have trouble keeping food down, because you still need calories. If you don't have enough calories, you increase your risk of hypoglycemia (low blood sugar).
- Make sure that you check your blood glucose. Your blood glucose level may be high even if you're not eating.
- Call your doctor right away if you throw up more than once or have diarrhea for more than 6 hours.

## Points to remember

- What, when, and how much you eat all affect your blood glucose level.
- You can keep your blood glucose at a healthy level if you
  - Eat about the same amount of food each day.
  - Eat at about the same times each day.
  - Take your medicines at the same times each day.
  - Exercise at the same times each day.
- Every day, choose foods from these food groups: starches, vegetables, fruit, meat and meat substitutes, and milk and yogurt. How much of each depends on how many calories you need a day.
- Limit the amounts of fats and sweets you eat each day.

## How to find more help

**Diabetes Teachers** (nurses, dietitians, pharmacists, and other health professionals)

- To find a diabetes teacher near you, call the American Association of Diabetes Educators toll-free at 1-800-TEAMUP4 (1-800-832-6874) or see [www.diabeteseducator.org](http://www.diabeteseducator.org) and click on “Find a Diabetes Educator.”

**Recognized Diabetes Education Programs**  
(teaching programs approved by the American Diabetes Association)

- To find a program near you, call toll-free 1-800-DIABETES (1-800-342-2383) or see [www.diabetes.org/education/edustate2.asp?loc=x](http://www.diabetes.org/education/edustate2.asp?loc=x).

### **Dietitians**

- To find a dietitian near you, call the American Dietetic Association’s National Center for Nutrition and Dietetics toll-free at 1-800-366-1655 or see [www.eatright.org](http://www.eatright.org) and click on “Find a Nutrition Professional.”



# National Diabetes Information Clearinghouse

1 Information Way  
Bethesda, MD 20892-3560  
Phone: 1-800-860-8747 or (301) 654-3327  
Fax: (301) 907-8906  
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The National Diabetes Information Clearinghouse (NDIC) is a service of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). The NIDDK is part of the National Institutes of Health under the U.S. Department of Health and Human Services. Established in 1978, the clearinghouse provides information about diabetes to people with diabetes and to their families, health care professionals, and the public. NDIC answers inquiries, develops and distributes publications, and works closely with professional and patient organizations and Government agencies to coordinate resources about diabetes.

Publications produced by the clearinghouse are carefully reviewed by both NIDDK scientists and outside experts. This booklet was reviewed by Marion J. Franz, M.S., R.D., L.D., C.D.E., Minneapolis; and Carolyn Leontos, M.S., R.D., C.D.E., University of Nevada.

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This booklet is also available at [www.diabetes.niddk.nih.gov](http://www.diabetes.niddk.nih.gov) under "Health Information."



U.S. DEPARTMENT OF HEALTH  
AND HUMAN SERVICES  
National Institutes of Health



**NIDDK**

National Institute of Diabetes and  
Digestive and Kidney Diseases

NIH Publication No. 03-5043  
July 2003

## NutriGenie Diabetes Nutrition version 7.0 for Windows

*"Four of the six leading causes of death -- diabetes, heart disease, cancer and obesity -- are related to nutrition ... [but] many doctors don't ask questions about diet until the patient has a heart attack."*

**Dr. Steve Zeisel,**

**Chairman, Nutrition Department, University of North Carolina**

Since ancient times, diet has been recognized as a cornerstone of diabetes management. Treatment for Type I diabetes consists of a combination of controlled diet and daily injections of insulin, on the other hand, diet alone can control Type II diabetes in many cases.

Diabetes meal planning has never been easier: NutriGenie Diabetes Nutrition incorporates the American Diabetes Association's Food Exchange System in addition to the USDA's Food Guide Pyramid. It can automatically generate daily menus that meet your Exchange specification using only the foods you select. Or it can generate millions of well-balanced menus that meets your calorie requirement using thousands of foods from its database. The software allows you to monitor your diet for conformance with the [diabetes diet prescribed by the National Institute of Diabetes & Digestive & Kidney Diseases](#).

*NutriGenie Diabetes Nutrition* is the most sophisticated and comprehensive diabetes dietary management system available. Whether you follow the carbohydrate counting approach, or fat gram counting, or ADA food exchange system, NutriGenie Diabetes Nutrition will save you many hours of tedious planning and record keeping. New and unique features to organize food database make food selection a breeze: user can hide and reshow foods, assign them to various food groups or meals, search, sort and selectively print nutrients. No other diabetes nutrition software on the market gives users comparable insight into their diet. NutriGenie Diabetes Nutrition is an excellent companion to the American Diabetes Association's publications, especially those having nutritional data.

INDIANA UNIVERSITY



SCHOOL OF MEDICINE

DEPARTMENT OF MEDICINE  
DIABETES RESEARCH AND TRAINING CENTER  
250 University Boulevard, Room 122  
Indianapolis, Indiana 46202-5192

NutriGenie diabetes nutrition software is used at many medical institutions such as the Diabetes Research and Training Center at Indiana University's School of Medicine.

*Note:* Diabetes Nutrition has the same features as Diabetes Meal Planner. However, Diabetes Nutrition doesn't include the 2 companion programs Omega-3 Counter and Sugar Content of Foods. A special package that includes all 3 programs is offered at \$59.

- **Database:** 8,000 items plus user's own food database
- **Analyses:** RDA, calories, protein, carbohydrate, total fat, cholesterol, sodium, fiber, potassium and calcium, USDA food pyramid.
- **Features:** blood glucose tracker, weight log, diet history, blood pressure log, cholesterol profiler, weight control planner, body mass index, caloric need and caloric expenditure calculators, target heart rate calculator, caloric and nutrient distribution analyzer, search and sort capabilities, convenient food database editing and organizing tools, [NutriGenie auto menu generator](#).
- **Price:** \$49



- **Diabetes Nutrition, Omega-3 Counter and Sugar Content of Foods: \$59**



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