## Daily Diabetes Meal Planning Guide

A daily meal plan is an important part of your diabetes management, along with physical activity, blood sugar (glucose) checks and, often, diabetes medications.

## There is no one meal plan that works for everybody with diabetes. This guide provides you with information that may help you plan your meals, including:

- Balance Your Plate: Many people with diabetes like to keep meal planning simple. This eating plan can help you easily portion out your food.
- A Handy Guide to Portion Sizes: Quick tips for estimating portion sizes
- Food Lists for Meal Planning: If you want to count servings of food and follow a plan that is good for your diabetes too, use this tool to help you figure out how many carbohydrates, proteins, and fats are a good amount for you.
- Carbohydrate Counting: There are many foods with carbohydrates to enjoy, including grains, fruits, vegetables, milk products and even those with sugar. Carbohydrates raise your blood sugar level more than proteins and fats. This meal planning approach helps you keep track of how many carbohydrates you eat in your meals and snacks. Many people who take insulin like to use this plan.


## Dietary Guidelines at a Glance:

- Balance your calories to manage your weight
- Increase your intake of nutrient-dense foods such as fruits, vegetables, whole grains, low-fat dairy and protein, and healthy fats/oils
- Reduce your intake of sodium, fats, added sugars, refined grains and alcohol
- Build healthy eating patterns

Checking your blood sugar as directed by your healthcare provider will help you to see how your food choices affect your blood sugar control.

A registered dietitian ( RD ) can help you make a meal plan that best meets your needs and lifestyle. Ask your heathcare provider, certified diabetes educator (CDE), hospital, or local diabetes association for the names of RDs in your area who work with people who have diabetes or find an RD at www.eatright.org.

## Meal Planning Options

## Balance Your Plate



- FRUITS: A serving of fruit is 1 small fresh fruit, 2 tbsp dried fruit, or $1 ⁄ 2$ cup canned fruit or $40 z$ unsweetened fruit juice.
- VEGETABLES: Choose nonstarchy vegetables, such as broccoli, carrots, cauliflower or green beans.
- GRAINS: Fill $1 / 4$ of the plate with a bread, cooked grain, or starchy vegetable such as corn, brown rice, or potatoes. Choose whole grains more often.
- DAIRY: Add 1 cup fat-free/low-fat milk or $2 / 3$ cup fat-free/low-fat/light yogurt.
- PROTEIN: Fill this $1 / 4$ of the plate with lean meat, poultry, or fish. If you choose a plantbased protein, such as dried beans, consider the carbohydrate content as part of your total carbohydrate amount for the meal.

MyPlate is not customized to match an individual's carbohydrate needs and blood sugar goals.
It's still important to see an RD or CDE for nutrition advice.

## A Handy Guide to Portion Sizes:



The palm, not including fingers and thumb, is about 3 ounces of cooked and boneless meat.


The fist is about 1 cup or about 30 grams of carbs for foods, such as 1 cup ice cream or 1 cup cooked cereal.


The thumb is about 1 tablespoon or 1 serving of regular salad dressing, reduced-fat mayonnaise, or reduced-fat margarine.


The thumb tip is about 1 teaspoon or 1 serving of margarine, mayonnaise, or other fats or oils.

Hand sizes vary. These portion estimates are based on a woman's hand size.
Measuring or weighing foods is the most accurate way to figure out portion size.

## Food Lists for Meal Planning

## Key

* Foods marked with * should be counted as 1 starch +1 fat per serving
() Foods marked with $)$ contain more than 3 grams of dietary fiber per serving
! Foods marked with ! contain 400 mg or more of sodium per serving
oz= ounce
tsp $=$ teaspoon
tbsp= tablespoon


## Adapted from:

The Official Pocket Guide to
Diabetic Exchanges,
American Diabetes Association, 2011.

## Starch

## Each serving from this list contains

 15 grams carbohydrate, 0-3 grams protein, $0-1$ gram fat and 80 calories.Most of the calories in these foods come from carbohydrates, a good source of energy. Many foods from this group also give you fiber, vitamins, and minerals. Prepare and eat starchy foods with as little added fat as possible. Choose whole grain starches when you can.
In general, a single serving of starch is:

- $1 / 2$ cup of cooked cereal, grain, or starchy vegetable
- $1 / 3$ cup of cooked rice or pasta
- 1 oz of a bread product (such as 1 slice of whole wheat bread)
- $3 / 4$ to 1 oz of most snack foods (some snack foods may also have extra fat)


## Bread

Serving Size
Bagel (large, about $40 z$ )
*Biscuit ( $21 / 2$ inches across)
1
Bread (whole wheat, white or rye) (1 oz) 1 slice
*Cornbread (1 $3 / 4$-inch cube or $11 / 20$ oz) 1
English muffin
Hot dog or hamburger bun (1 0z) 1/2
Pancake (4 inches across, $1 / 4$-inch thick) 1
Pita pocket (6 inches across) $\quad 1 / 2$
Roll (plain, small, 1 oz)
Tortilla (corn or flour, 6 inches across) 1
*Waffle (4-inch square or 4-inch diameter)

## Cereals and Grains <br> Serving Size

| Cereals, cooked (oats, oatmeal) | $1 / 2$ cup |
| :--- | ---: |
| Cereals (unsweetened, ready-to-eat) | $3 / 4$ cup |
| Couscous | $1 / 3$ cup |
| Granola (low-fat) | $1 / 4$ cup |
| Pasta, cooked | $1 / 3$ cup |
| Rice, cooked (white or brown) | $1 / 3$ cup |

3/4 Cup

Granola (lowt
Pasta, cooked
$1 / 3$ cup

| Starchy Vegetables Servi | Serving Size |
| :---: | :---: |
| Corn | $1 / 2$ cup |
| Corn on cob (large, 50 oz) | $1 / 2 \mathrm{cob}$ |
| (). Hominy, canned | $3 / 4$ cup |
| -) Peas, green | $1 / 2$ cup |
| Plantain, ripe | $1 / 3$ cup |
| Potato |  |
| Baked with skin (3 0z) |  |
| Boiled, all kinds (30z) | $1 / 2$ cup |
| French fried (oven-baked) (2 oz) | z) 1 cup |
| *Mashed with milk and fat | $1 / 2$ cup |
| ! Spaghetti/red pasta sauce | $1 / 2$ cup |
| - Squash, winter | 1 cup |
| Yam, sweet potato, plain | $1 / 2$ cup |
| Crackers and Snacks Servi | Serving Size |
| Crackers |  |
| *Round, butter-type | 6 |
| Saltines |  |
| Graham cracker (2 1 ²-inch square) | (e) |
| - Popcorn |  |
| *With butter | 3 cups |
| Lower fat or no fat added | 3 cups |
| Pretzels | $3 / 402$ |
| Snack chips (tortilla chips, potato chips) |  |
| Fat-free or baked (3/4 0z) | 15-20 |
| *Regular (3/4 0z) | 9-13 |
| Beans, Peas, and Lentils (Count as 1 Starch + 1 Lean Meat) |  |
| Serving Size |  |
| © Baked beans | $1 / 3$ cup |
| © Beans, cooked (black, garbanzo, kidney, lima, navy, pinto, white) | $1 / 2$ cup |
| © Lentils, cooked (brown, green, yellow) | llow) 112 cup |
| © Peas, cooked (black-eyed, split) | $1 / 2$ cup |

## Fruits

Each serving from this list contains 15 grams carbohydrate, 0 grams fat, 0 grams protein and 60 calories.

Fruits are good sources of fiber, regardless of whether they are fresh, frozen, or dried. Fruit juices contain very little fiber. Choose whole fruit instead of juices whenever possible. When using canned fruit, choose fruit packed in its own juice or light syrup.

## In general, a single serving of fruit is:

- $1 / 2$ cup of canned or fresh fruit or 4 oz unsweetened fruit juice
- 1 small fresh fruit (4 oz)
- 2 tablespoons of dried fruit


## Fruit

Serving Size
Apple, unpeeled (small, $40 z$ )
$1 / 2$ cup
Banana (extra small, 40 oz) Berries
© Blackberries
$3 / 4$ cup
Blueberries
$3 / 4$ cup

| Fruit (continued) Se | Serving Size |
| :---: | :---: |
| () Raspberries | 1 cup |
| () Strawberries (whole) | $11 / 4$ cup |
| Cantaloupe (cubed) | 1 cup |
| Cherries (sweet, fresh, 30 oz) | 12 |
| Dried fruits (blueberries, cherries, cranberries, mixed fruit, raisins) | ies, $\quad 2$ tbsp |
| Grapefruit (large, 11 oz) | 1/2 |
| Grapes (small, 3 oz) | 17 |
| Guava | $1 / 2$ cup |
| () Kiwi ( ${ }^{1 ⁄ 2}$ 0z) |  |
| Mandarin oranges, canned | $3 / 4$ cup |
| Mango (small, 5 ½ 0z) 1 ² frut | $1 / 2$ fruit or $1 / 2$ cup |
| () Orange (small, 611202 ) |  |
| Papaya (cubed, 8 oz) 1/2 fr | $1 / 2$ fruit or 1 cup |
| Peaches (fresh, medium, 6 oz) |  |
| Pears (fresh, large, 40 oz) | 1/2 |
| Pineapple (fresh) | $3 / 4$ cup |
| Plums (small) |  |
| Dried (prunes) |  |
| Watermelon (cubes, $1311 / 20$ ) 1 slice or $11 / 4$ cups |  |
| Fruit Juice Serving Size |  |
| Apple, grapefruit, orange, pineapple | eapple 1/2 cup |
| Fruit juice blends (100\% juice) | 1/3 cup |
| Grape juice | 1/3 cup |
| Prune juice | $1 / 3$ cup |

## Milk

Milk and yogurt are rich in calcium and protein. Choose fat-free, low-fat and reduced-fat varieties for health. They have less saturated fat and cholesterol than whole milk products.
Fat-free (skim) or low-fat (1\%) milk and yogurt: Each serving from this list contains 12 grams carbohydrate, 8 grams protein, $0-3$ grams fat and 100 calories.

## Serving Size

Milk, buttermilk, acidophilus milk, Lactaid 1 cup Evaporated milk 1 12 Cup
Yogurt (plain or flavored with a
low-calorie sweetener, 6 oz)
2/3 cup
Reduced-fat (2\%) milk and yogurt: Each serving from this list contains 12 grams carbohydrate, 8 grams protein, 5 grams fat and 120 calories.

Serving Size
Milk, acidophilus milk, Lactaid 1 cup
Yogurt (plain, 6 0z) 3/4 Cup
Whole milk and yogurt: Each serving from
this list contains 12 grams carbohydrate, 8 grams protein, 8 grams fat and
160 calories.

| Milk, buttermilk, goat's milk | 1 cup |
| :--- | ---: |
| Evaporated milk | $1 / 2$ cup |
| Yogurt (plain, 8 oz) | 1 cup |

## Food Lists for Meal Planning

| Dairy-like Foods Servin | Serving Size |
| :---: | :---: |
| Chocolate milk (fat-free) | 1 cup |
| (1 fat-free milk + 1 carbohydrate) | rate) |
| Chocolate milk (whole) | 1 cup |
| (1 whole milk + 1 carbohydrate) |  |
| Smoothies (flavored, regular) | 1002 |
| (1 fat-free milk + $21 / 2$ carbohydrate) | ydrate) |
| Soy milk (regular, plain) | 1 cup |
| (1 carbohydrate + 1 fat) |  |
| Yogurt with fruit (low-fat, 6 oz) | ${ }^{2 / 3}$ cup |
| (1 fat-free milk + 1 carbohydrate) | rate) |

## Nonstarchy Vegetables

Each serving from this list contains 5 grams carbohydrate, 2 grams protein and 25 calories.
You should try to eat at least 2 to 3 servings of nonstarchy vegetables each day. Choose a variety of vegetables to benefit from their essential vitamins, minerals, and antioxidants. When using canned vegetables, choose no-saltadded versions or rinse.

## In general, a single serving of a nonstarchy vegetable is:

- $1 / 2$ cup of cooked vegetables or vegetable juice
- 1 cup of raw vegetables

Amaranth or Chinese spinach
Beans (green, wax, Italian)
Bean sprouts
Broccoli
Cabbage (green, bok choy, Chinese)
() Carrots

Cauliflower
Celery
Cucumber
Eggplant
Greens (collard, kale, mustard, turnip)
Jicama
Mushrooms
Okra
Onions
Pea pods
© Peppers (all varieties)
Radishes
! Sauerkraut
Spinach
Squash (summer, crookneck, zucchini)
Tomatoes (fresh and canned)
! Tomato sauce
! Tomato/vegetable juice
Water chestnuts

## Sweets, Desserts, and Other Carbohydrates

Each serving from this list contains 15 grams carbohydrate; protein, fat and calorie content varies.

You can substitute food choices from this list for other carbohydrate-containing foods (such as those found on the Starch, Fruit or Milk lists) in your meal plan, even though these foods have added sugars or fat. The foods on this list do not have as many vitamins, minerals, and fiber. Choose foods from this list less often, especially if you are trying to lose weight. Many sugar-free, fat-free and reduced-fat products are made with ingredients that contain carbohydrates, so check the Total Carbohydrate information on the Nutrition Facts food label. Count each serving as 1 carbohydrate unless otherwise noted.

| Food | Serving Size |
| :---: | :---: |
| Brownie (small, unfrosted, about 1 oz) (1 carbohydrate + 1 fat) |  |
| Cake (frosted, 2-inch square) (2 carbohydrates + 1 fat) | 1 |
| Cake (unfrosted, 2-inch square) (1 carbohydrate + 1 fat) |  |
| Candy bar (chocolate/peanut) 2 "fun size" bars ( $1^{1 / 2}$ carbohydrates $+1^{1 / 2}$ fats) |  |
| Candy (hard) | 3 pieces |
| Cookies (chocolate chip, $2 \frac{1}{4}$ inch (1 carbohydrate + 2 fats) | across) |
| Cookies (vanilla wafer) (1 carbohydrate + 1 fat) | 5 |
| Doughnut (cake, plain, medium, about 1120 0z) 1 ( $1^{11 / 2}$ carbohydrates + 2 fats) |  |
| Fruit juice bars (frozen, 100\% juice, 3 0z) 1 bar Gelatin, regular $\quad 1 / 2$ cup |  |
|  |  |
| Granola snack bar (regular or low( $1^{11 / 2}$ carbohydrates) | -fat) $10 z$ bar |
| Hot chocolate, (regular, made with | h water) |
| (1 carbohydrate + 1 fat) 1 envelope |  |
| Ice cream (light or no sugar added) (1 carbohydrate + 1 fat) | d) 1/2 cup |
| Ice cream (regular) <br> (1 carbohydrate + 2 fats) | $1 / 2$ cup |
| Jam or jelly (regular) | 1 tbsp |
| Muffin (4 oz) (1 carbohydrate + $1 / 2$ fat) | $1 / 4$ muffin |
| Pie (8-inch, 2-crust, fruit) ( 3 carbohydrates + 2 fats) | 1/6 pie |
| Pudding (regular, made with reduced-fat milk) |  |
| (2 carbohydrates) | $1 / 2$ cup |
| ! Pudding (sugar-free or sugar- and fat-fre made with fat-free milk) | $1 / 2$ cup |
| Sports drink | 1 cup (8 0z) |
| Sugar | 1 tbsp |
| Syrup (light, pancake type) | 2 tbsp |
| Syrup (regular, pancake type) | 1 tbsp |
| Yogurt (frozen, fat-free) | $1 / 3$ cup |

## Meat and Protein Sources

Lean meats and protein sources: Each serving from this list contains 0 grams carbohydrate, 7 grams protein, 0-3 grams fat and 45 calories.

Meat and protein sources are rich in protein. Whenever possible, choose lean meats. Portion sizes on this list are based on cooked weight, after bone and fat have been removed. The carbohydrate content varies among plant-based proteins, so read food labels carefully.
Beef (Select or Choice grades, trimmed of fat):
Ground round, roast (chuck, rib, rump), $10 z$ sirloin, steak (cubed, flank,
porterhouse, T-bone, tenderloin)
Cheeses (with 3 grams of fat or less per 0z) $10 z$ Cottage cheese $\quad 1 / 4$ cup
Egg whites 2
Fish (fresh or frozen, plain): $10 z$
Catfish, cod, flounder, haddock, halibut, orange roughy, salmon, tilapia, trout, tuna
! Hot dog (with 3 grams of fat or less per oz) 1 Pork (lean): $10 z$ Rib or loin chop/roast, ham, tenderloin, ! Canadian bacon
Poultry (without skin) $10 z$
Processed sandwich meats $10 z$
(with 3 grams of fat or less per 0z)
Tuna (canned in water or oil, drained) $10 z$
Medium-fat meat and protein sources: Each serving from this list contains 0 grams carbohydrate, 7 grams protein, 4-7 grams fat and 75 calories.

Beef:

$10 z$

Corned beef, ground beef, meatloaf,
Prime grades trimmed of fat (prime rib)
Cheeses (with 4-7 grams of fat per oz) $10 z$ Mozzarella, pasteurized processed cheese spread, reduced-fat cheeses, string cheese, ! Feta
Egg 1
Fish, any fried type $10 z$
Pork (cutlet, shoulder roast) 102
Poultry (with skin or fried) $10 z$
Ricotta cheese (2 oz) $\quad 1 / 4$ cup
! Sausage (with 4-7 grams of fat per 0z) $10 z$
High-fat meat and protein sources: Each serving from this list contains 0 grams carbohydrate, 7 grams protein, 8+ grams fat and 100 calories.

| Bacon (pork) | 2 slices |
| :--- | ---: |
| ! Bacon (turkey) | 3 slices |
| Cheese (regular): | 102 |
| American, bleu, brie, cheddar, hard goat, |  |
| Monterey jack, queso, swiss |  |
| *! Hot dog (beef, pork, or combination) | 1 |

Pork sparerib
Processed sandwich meats (with 8 or
$10 z$
$10 z$ more grams of fat per oz):
Bologna, pastrami, ! hard salami
! Sausage (with 8 or more grams
102
of fat per 0z):
Bratwurst, chorizo, Italian, knockwurst, Polish, smoked, summer

Plant-based proteins: Each serving from this list contains 7 grams protein; amount of carbohydrate, fat, and calories varies.
Beans, peas, and lentils are also found on the Starch list. Nut butters in smaller amounts are found in the Fats list.

| Food Servin | Serving Size |
| :---: | :---: |
| © Beans, lentils, or peas (cooked) (1 starch + 1 lean meat) | $1 / 2$ cup |
| © ) Hummus <br> (1 carbohydrate + 1 high-fat meat) | $\text { meat) }{ }^{1 / 3 \text { cup }}$ |
| Nut spreads: almond butter, cashew butter, peanut butter, soy nut butter (1 high-fat meat) | ew 1 tbsp |
| Tempeh <br> (1 medium-fat meat) | $3 / 4$ cup |
| Tofu (4 oz) <br> (1 medium-fat meat) | $1 / 2$ cup |

## Fats

Each serving from this list contains 0 grams carbohydrate, 0 grams protein, 5 grams fat and 45 calories.
Choose heart-healthy fats from the monounsaturated and polyunsaturated groups more often.

## In general, a single serving of fat is:

- 1 teaspoon of regular margarine, vegetable oil or butter
- 1 tablespoon of regular salad dressing

Unsaturated Fats

## Monounsaturated Fats

Avocado (medium, 1 oz)
Nut butters (trans-fat free) Nuts
Almonds, cashews
Macadamia
6

Peanuts
10
Pecans 4 halves

1 tsp
8 large
10 large

| Polyunsaturated Fats | Serving Size |
| :--- | ---: |
| Margarine (lower-fat spread) | 1 tbsp |
| Margarine (stick, tub or squeeze) | 1 tsp |
| Mayonnaise (reduced-fat) | 1 tbsp |
| Mayonnaise (regular) | 1 tsp |
| Oil (corn, cottonseed, flaxseed, grape | 1 tsp |

Serving Size
2 tbsp
$11 / 2 \mathrm{tsp}$

Oil (canola, olive, peanut)
Olives (black, ripe)
! Olives (green, stuffed)

| seed, safflower, soybean, sunflower) |  |
| :--- | ---: |
| ! Salad dressing (reduced-fat) | 2 tbsp |
| ! Salad dressing (regular) | 1 tbsp |
|  |  |
| Saturated Fats | Serving Size |
| Bacon (cooked, regular or turkey) | 1 slice |
| Butter | 1 tsp |
| Cream (half and half) | 2 tbsp |
| Cream cheese (reduced-fat) | $11 / 2$ tbsp |
| Cream cheese (regular) | 1 tbsp |
| Sour cream (reduced-fat or light) | 3 tbsp |
| Sour cream (regular) | 2 tbsp |

## Free Foods

Each serving from this list has 5 grams or less of carbohydrate and less than 20 calories per serving.
Eat up to 3 servings per day of the free foods in the serving size noted without counting any carbohydrates. Choices listed without a serving size can be eaten whenever you like. For better blood sugar control, spread your servings of these foods over the day.

| Low-carbohydrate Foods | Serving Size <br> $1 / 2$ <br> Cubbage (raw) |
| :--- | ---: |
| Gelatin (sugar-free or unflavored) | free |
| Gum | free |
| Jam or jelly (light or no sugar added) | 2 tsp |
| Salad greens | free |

Sugar substitutes (low-calorie sweeteners) free
Modified-fat Foods
with Carbohydrates
Serving Size
Cream cheese (fat-free) 1 tbsp
Creamers (nondairy, liquid) 1 tbsp
Creamers (nondairy, powdered) 2 tsp
Salad dressing (fat-free or low-fat) 1 tbsp
Salad dressing (fat-free Italian) 2 tbsp

## Condiments

Serving Size
Barbecue sauce 2 tsp
Catsup (ketchup) 1 tbsp
Mustard free
! Pickles (medium size dill) $\quad 1 \frac{112}{2}$
Salsa $\quad 1 / 4$ cup
Taco sauce 1 tbsp
Vinegar free
Drinks/Mixes
! Bouillon, broth, consommé free
Carbonated or mineral water, club soda free
Coffee or tea free
Diet soft drinks or sugar-free drink mixes free

## Seasonings

Flavoring extracts free
Garlic free
Herbs (fresh or dried) free
Nonstick cooking spray free
Spices
free

## Worcestershire sauce

## Combination Foods

Combination foods contain foods from more than one food list, but with the help of an RD you can fit these foods into your meal plan.

## Entrees

## Serving Size

! Casserole type: 1 cup
Tuna noodle, lasagna, macaroni and cheese, 80 oz
( 2 carbohydrates + 2 medium-fat meats)
Frozen Meals
Serving Size
!-(Burrito (beef and bean, 5 oz )
1
( 3 carbohydrates +1 lean meat +2 fats)
! Pizza (cheese/vegetarian, thin crust)
$1 / 4$ of a 12 -inch pie
(2 carbohydrates + 2 medium-fat meats)

Soups
Serving Size
! Bean, lentil, or split pea 1 cup
(1 carbohydrate + 1 lean meat)
! Tomato (made with water)
1 cup

## (1 carbohydrate)

## Alcohol

In general, 1 alcohol equivalent has about 100 calories. One alcohol equivalent is $120 z$ beer or $1 \frac{1}{2}$ oz distilled spirits or $50 z$ wine. If you choose to drink alcohol, limit it to 1 drink or less per day if you are a woman and 2 drinks or less per day if you are a man.

These Food Lists are not intended to be all inclusive. Consult with your RD about any foods that you eat which are not listed.

## Sample Meal Plan: Pulling the Food Lists Together

The table below shows sample meal plans, by numbers of servings, for different calorie requirements. Ask your RD, CDE, or healthcare provider which plan may work best for you. Each plan provides about half of its calories from carbohydrates and less than $25 \%$ of calories from fat, based on choosing fat-free milk and low-fat meats (Lean Meat Group) and cheeses.

| Calories per day* |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | 1200 | 1600 | 1800 | 2000 | 2200 |
| Carbohydrates |  |  |  |  |  |
| Starches | 5 | 7 | 8 | 9 | 10 |
| Fruits | 3 | 3 | 3 | 4 | 4 |
| Milk | 2 | 3 | 3 | 3 | 3 |
|  <br> Other Carbohydrates $\dagger$ |  |  |  |  |  |
| Nonstarchy Vegetables | 3 | 4 | 5 | 6 | 6 |
| Meat \& Meat Substitutes | $40 z$ | $60 z$ | $60 z$ | $70 z$ | $80 z$ |
| Fats | 3 | 5 | 6 | 6 | 7 |

* The numbers included in the chart are individual servings from each food list.
$\dagger$ Consult with an RD about how to substitute foods from the Sweets, Desserts, and Other Carbohydrates list with other carbohydratecontaining foods as associated calorie content may be higher.


## Carbohydrate Counting

Carbohydrate (starch and sugar) is the main nutrient in food that raises blood sugar. When you plan meals based on carbohydrate counting, count only the foods that contain carbohydrates. Calculate the carbohydrate grams or choices using the bolded carbohydrate numbers at the top of each food list. If you are using a packaged food with a Nutrition Facts label, count the number of "Total Carbohydrate" grams based on the serving size listed on the label.

- TO CALCULATE CARBOHYDRATE CHOICES:
: Divide the number of grams of total carbohydrates
: by 15 (because 1 carbohydrate choice = 15 grams of
- carbohydrate).
- Total carbohydrates $=22 \mathrm{~g}$
: 22 divided by $15=1.5$
: So, 8 crackers = 2 carbohydrate choices

| Food Groups | Grams of <br> Carbohydrate <br> per Serving |
| :--- | :---: |
| Starches | 15 |
| Fruits | 15 |
| Milk | 12 |
| Nonstarchy Vegetables | 5 |
| Sweets, Desserts, <br> Other Carbohydrates | varies |
| Meat and Protein <br> Sources | 0 |
| Fats | 0 |
| Free Foods | $<5$ |
| Combination Foods | varies |


| Nutrition Facts |  |  |  | Check the serving size: <br> 8 crackers <br> Is that how much you plan to eat? |
| :---: | :---: | :---: | :---: | :---: |
| Serving Size 8 crackers (28g) |  |  |  |  |
| Amount per serving |  |  |  |  |
| Calories | 120 | Fat Calories $\quad 30$ |  |  |
|  |  | \% Daily Value |  | This number (28g) is the weight of the crackers, not the amount of carbohydrates in the serving. |
| Total Fat 3.59 |  | 5\% |  |  |
| Saturated Fat 1g 5\% |  |  |  |  |
| Trans Fat 0g |  |  |  |  |
| Polyunsaturated Fat 1.5g |  |  |  |  |
| Monounsaturated Fat 0.5 g |  |  |  |  |
| Cholesterol Omg |  |  | 0\% | Count total carbohydrate. |
| Sodium 140mg |  |  | 6\% |  |
| Total Carbohydrate 22g - 7\% |  |  |  | You do not need to count sugar separately because it is already counted as part of the total carbohydrate. |
| Dietary Fiber less than 1 g |  |  | 3\% |  |
| Sugar 7g - |  |  |  |  |
| Protein 2g |  |  |  |  |
| Vitamin A | 0\% | Vitamin C | 0\% |  |
| Calcium | 10\% | Iron | 4\% |  |

- How much carbohydrate do you need?
: Your RD can help decide how much carbohydrate you need. The amount : depends on your age, weight, activity, and diabetes medications, if needed.
: It's important to know that. .
1 carbohydrate choice = 15 grams carbohydrate.
Women often need about 45-60 grams carbohydrate (3-4 choices) at each of 3 meals and 15 grams carbohydrate (1 choice) for snacks as needed.

Men often need 60-75 grams carbohydrate (4-5 choices) at each of 3 meals and 15-30 grams carbohydrate (1-2 choices) for snacks as needed.

## Personal Meal Plan

## Resources

## American Association of Diabetes Educators

www. diabeteseducator.org

## American Diabetes Association

www.diabetes.org

## Academy of Nutrition and Dietetics

www.eatright.org
The Official Pocket Guide to Diabetic Exchanges
American Diabetes Association, 2011.
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## Visit us at www.LillyDiabetes.com

Diabetes Care and Education (DCE), a dietetic practice group of the Academy of Nutrition and Dietetics, promotes quality diabetes care and education. DCE comprises members of the Academy of Nutrition and Dietetics who are leaders in the field of medical nutrition therapy (MNT) and care of people with diabetes. Their expertise is widely recognized throughout the diabetes community. We are pleased to have had the opportunity to collaborate with this group of professionals on the creation of Lilly's Daily Diabetes Meal Planning Guide.

We hope you find this resource useful.
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