

# Carbohydrates

Along with proteins and fats, carbohydrates (carbs) are one of the three main nutrients found in foods and drinks. Foods that are high in carbohydrates include grains, fruits, starchy vegetables, dairy, sugar, and desserts. Foods with little to no carbohydrates are meat, meat substitutions, non-starchy vegetables, and fats.

Carbohydrates are important to monitor with diabetes because your body breaks down carbohydrates into glucose. Therefore, foods with carbohydrates make your blood glucose or blood sugar levels rise. Counting the amount of carbohydrates you consume at each meal helps you control your portion sizes of carbs, and ultimately helps you control your blood glucose levels.

## Recommendations for Blood Glucose Control:

### Eat three meals per day



Do not skip meals. Aim to eat meals/snacks around the same time each day.

### Counting carbohydrates



Consume a consistent amount of carbohydrates at every meal.

- One carb choice = 15 grams of carbohydrates
- Females: 3-4 carb choices (or 45-60 grams) per meal
- Males: 4-5 carb choices (or 60-75 grams) per meal

#### Limit added sugars and refined carbohydrates



Choose whole grains and other high fiber foods instead.



Whole grains and other high fiber foods get digested more slowly, so they don't spike blood glucose levels as high.



Limit adding sugar! Instead of using white sugar, honey, brown sugar, etc. try sugar substitutes like stevia.

# Each serving (picture) is equal to 1 carb choice (15 grams)



Males
4-5 carb choices per meal
(60-75 grams)

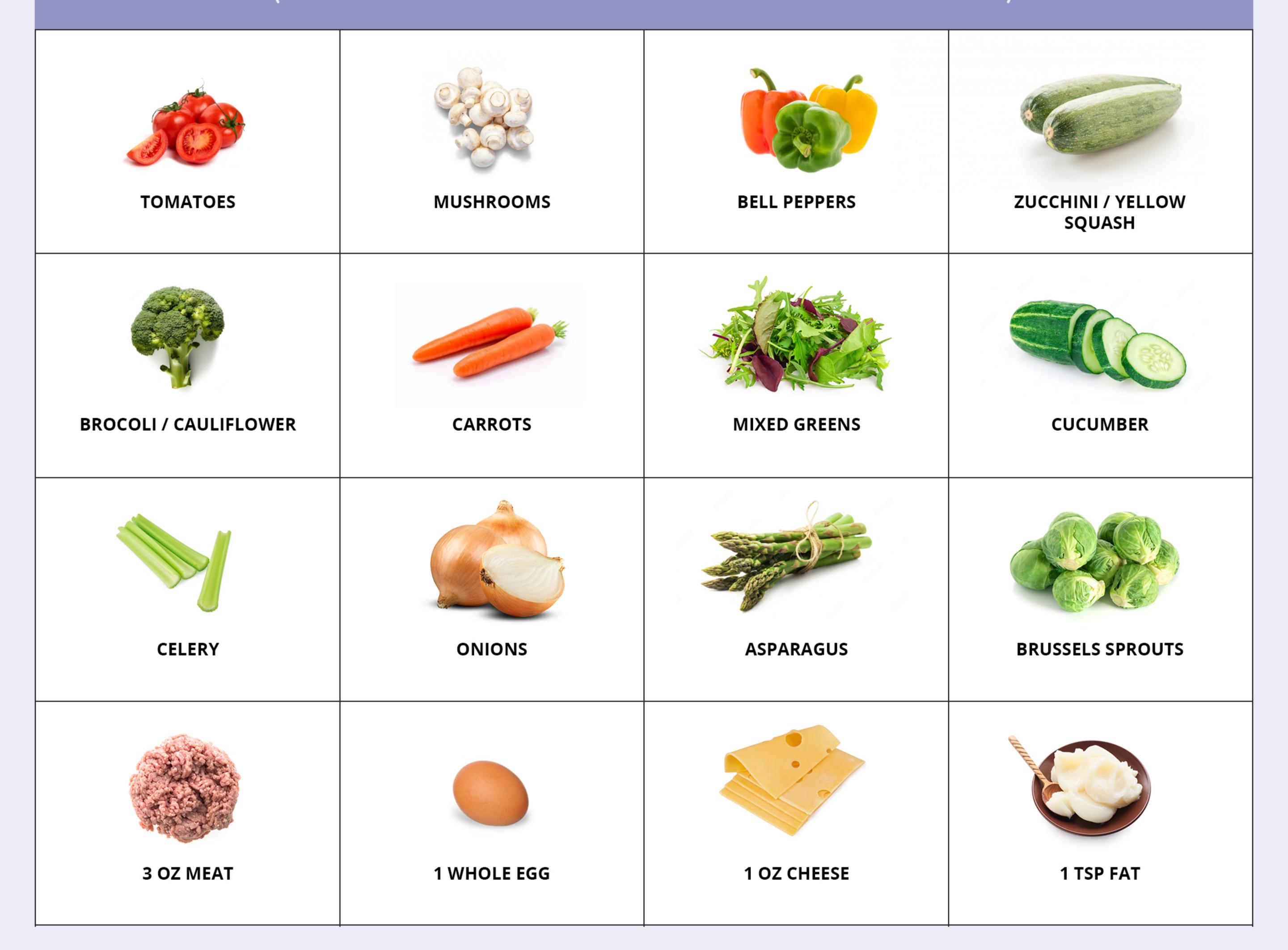


Females
3-4 carb choices per meal
(45-60 grams)



# Free Foods

(Foods with little to no carbs - no need to count)



# Tips for Eating Healthy

- Choose low-fat meats like skinless poultry, seafood, fish, and lean beef
- Choose low-fat dairy products like low-fat or fat-free cheese
- Choose plant oils instead of butter or lard



# High Carb Foods



(Foods with added sugar)



**SODA POP** 12 fl oz = 39g carbs



**SPORTS DRINKS**32 fl oz = 52g carbs



**ENERGY DRINKS** 8.4 fl oz = 28g carbs



**BOTTLED GREEN TEA** 20 fl oz = 33g carbs



**REGULAR PUDDING** 1/4 cup = 25g carbs



FRUIT CUP IN SYRUP 1/2 cup = 25g carbs



**1 DONUT** 39g carbs



**1 SLICE OF CAKE** 51g carbs



**3 COOKIES** 22g carbs



**17 GUMMY BEARS** 31g carbs



1 CUP ICE CREAM 32g carbs



**1 CANDY BAR** 25g carbs

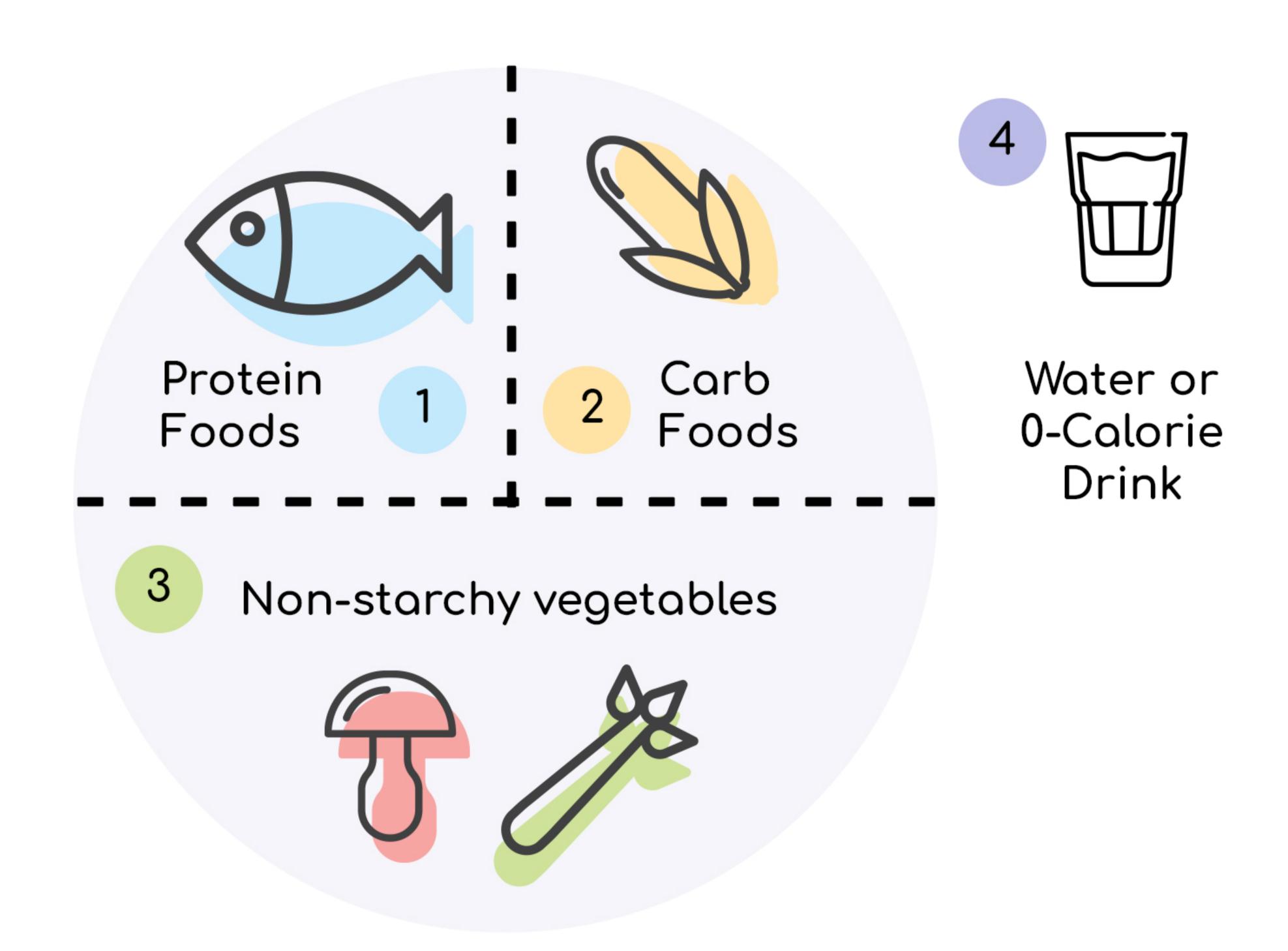
# Hypoglycemia

#### A blood glucose level below 70 mg/dL

#### Treatment Symptoms Causes Errors in medication Consume 15 grams of **HUNGER** carbohydrates administration **SWEATING** (preferably sugar Inadequate food intake because it is fast-acting) **SHAKINESS** Skipping meals or snacks ½ cup juice or soda **DIZZINESS** Delayed meals or snacks 1 tbsp of sugar or honey LIGHT-HEADEDNESS Improper timinaag of Hard Candy: 6 lifesavers, **SLEEPINESS** insulin in relation to food 3 peppermints intake CONFUSION Retest blood glucose in Unplanned or increased **DIFFICULTY SPEAKING** 10-15 minutes physical activity. **ANXIETY** Repeat if blood glucose is Alcohol intake without still below 70 mg/dL **WEAKNESS** food **BLURRY VISION**

### The Diabetes Plate Method

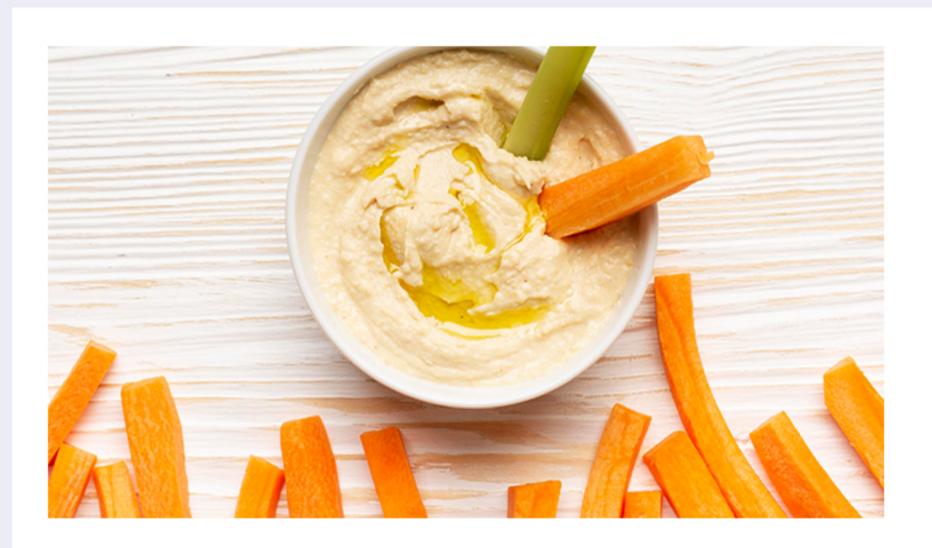
Using this plate method is a simple way to plan your meals and control the amount of carbohydrates you eat. Make your plate at mealtimes look like the picture below. Use the following chart to help you choose your foods.



Food Group		Examples of Foods/Beverages
1	Section 1: Non-Starchy Vegetables Fill ½ of your plate with non-starchy vegetables	Asparagus, broccoli, cabbage, cauliflower, celery, cucumber, green beans, kale, mushrooms, onions, peppers, or zucchini.
2	Section 2: Protein Foods Fill ¼ of your plate with a lean protein	Lean meat, poultry, fish, seafood, cheese, eggs, tofu, beans, lentils, nuts or nut butters.
3	Section 3: Carbohydrate Foods Fill ¼ of your plate with carbohydrate foods	Whole grains, whole wheat bread, brown rice, whole grain pasta, polenta, corn tortillas, fruit, or starchy vegetables (potatoes, green peas, corn, beans, acorn squash, and butternut squash). One cup of milk also counts as a food that contains carbohydrate.
4	Section 4: Beverage Choose water or a low-calorie, zero-sugar drink for your beverage	Unsweetened tea, coffee, or flavored/sparkling water without added sugar.

### Snacking

Eating snacks between meals helps you spread out your intake of carbohydrates, which can help control your blood sugar. Choose snacks that contain protein and ~15 grams of carbohydrates (1 carb choice). Healthy snack options are shown below.



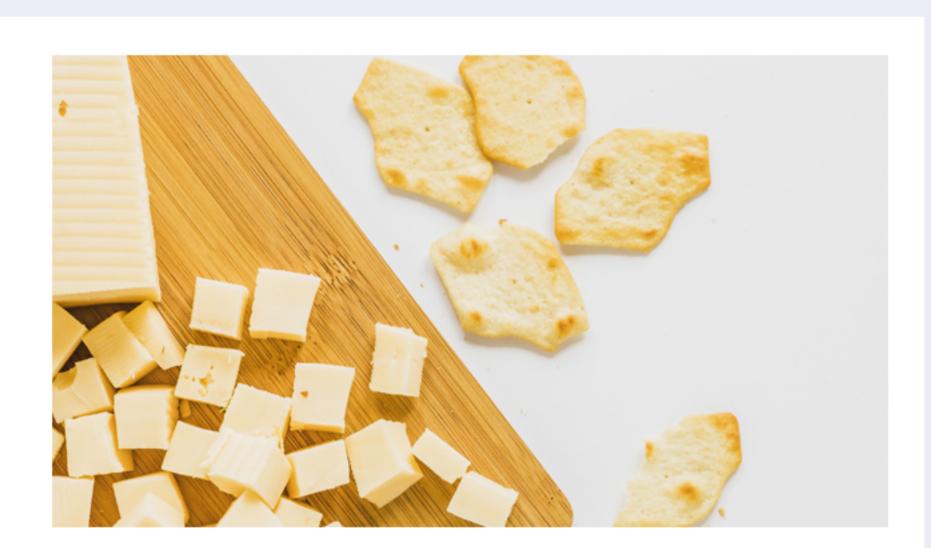
1 cup non-starchy vegetables

1/4 cup hummus



4-6 unsalted crackers

1/4 cup tuna



1 ounce cheese
3 large wheat thin crackers



2 tbsp nuts 15 grapes



1/2 cup berries
1/4 cup no salt added
cottage cheese



1 small apple
1 tbsp peanut butter
or 2 tbsp PB2

**Disclaimer:** Please note that the information provided herein is intended to serve as a general guideline and may not meet the unique nutritional needs of individual patients. The distribution of these materials is at the discretion of the physician. The creator is not responsible for their application or outcomes on individual health conditions. All patients are advised to consult with their physician for personalized advice tailored to their unique needs and circumstances.