# A Guide for People with Type 2 Diabetes



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The American Diabetes Association® (ADA) updates its Standards of Care in Diabetes annually so that people with diabetes get the most effective evidence-based treatment.

This guide is based on these standards and was created to help you feel confident and informed about your treatment plan, including key questions to ask your health care team so you can take charge of your health.

This guide focuses on three key pillars of type 2 diabetes management:







Medical support and care (for both body and mind)

Healthy eating

**Physical activity** 

These areas are deeply related, as a balanced eating plan and regular physical activity help you manage your blood glucose (blood sugar) and helps you stick with your treatment plan. Your health care team is your partner in creating your treatment plan—one that is based on your preferences and goals.

If you are living with type 2 diabetes, this guide will help you know your rights and empower you and your health care team to make informed choices.

You have the right to:



Access health care: Receive the services you need, including prevention and ongoing support



Respect and dignity: Be treated with personal respect and cultural sensitivity



Informed choices: Get clear, actionable information about your options



Learn more about common diabetes terms and getting the most out of health care visits.

# Living with Type 2 Diabetes: What You Need to Know

Working with your health care team, you can take steps to create a treatment plan that will prevent or delay diabetes complications.

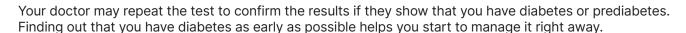


#### How do I find out if I have type 2 diabetes?

You can start by checking your risk for type 2 diabetes. The ADA's Type 2 Diabetes Risk Test is a common tool for this. Others will have a blood test right away. Talk to your doctor about your risk and if you need to be tested for diabetes.

The tests used to check if you have diabetes are the:

- A1C test: Shows your average blood glucose (blood sugar) over the past two to three months
- Fasting blood glucose test: Checks your blood glucose after you haven't eaten for at least eight hours
- Oral glucose tolerance test (OGTT): Measures how your blood glucose changes after drinking a sugary drink
- Random blood glucose test: Measures your blood glucose at any time, without fasting



Learn more about how to find out if you have diabetes and the signs and symptoms of diabetes.







Medications are an important part of your treatment plan and help you reach your health goals. Knowing how well they're working helps your health care team adjust your treatment plan when you're not reaching your health targets. Regular checkups and lab tests ensure your medications will help you and your team stay on the right track.



#### How do I know which medications are right for me?

Your health care team will consider several factors when choosing the best medication(s) for you:

- Your A1C and tracked blood glucose (blood sugar) levels
- · Other health conditions you may have, like heart disease, kidney disease, or obesity
- Your risk of low blood glucose (hypoglycemia)
- · Side effects of medications
- Your weight and weight loss goals (if you have them)
- Cost, insurance coverage, and what's accessible to you
- Your lifestyle and preferences, such as whether you prefer to take pills or injections

You're part of making the decision about what medication(s) will be included in your treatment plan. Your health care team will explain your options and help you know the pros and cons so that you feel confident and comfortable with your care plan.



### Common Type 2 Diabetes Medications

Each medication works in a different way and you'll discuss which one is right for you. Here are some of the types of medications you may talk about:

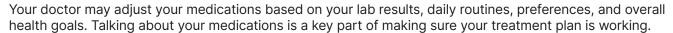
- Metformin: A commonly used medication for type 2 diabetes.
- GLP-1 receptor agonists: Supports weight loss and may help reduce your risk of heart and kidney complications. They are either taken by injection once a week or as a pill once a day.
- SGLT2 inhibitors: These medications may also protect the heart and kidneys, especially in people with existing conditions.
- Insulin: A hormone the body uses to process blood glucose for energy. It may be needed if other medications aren't enough to keep your blood glucose in your target range.
- Other medications: These include dual GLP-1/GIP receptor agonists, DPP-4 inhibitors, sulfonylureas, TZDs, and others. Each has specific benefits, and your doctor will help decide if any are right for you.

Tip: Work with your health care team to choose the best medications based on your health and goals. Discuss benefits, side effects, and a follow-up plan to make sure they're effective.

#### When should I review medications with my health care team?

Your medications should be reviewed at every diabetes visit—and you'll likely discuss options when:

- Your A1C or blood glucose levels change
- You develop a new health condition, like heart, kidney, or liver problems
- You're experiencing side effects
- Your blood glucose levels are regularly high or low
- You're pregnant or planning to become pregnant
- Your insurance changes or your medication costs too much
- You're not reaching your weight or blood pressure goals
- You're starting or stopping a device, like a continuous glucose monitor (CGM) or insulin pump



#### My Meds:

Medication Name	Dose	How Often	Time of Day	Reason Prescribed	Start Date
Notes / Side Effects:					
Notes / Side Effects:					
Notes / Side Effects:					
Notes / Side Effects:					

Dearn more about oral and injectable medications for type 2 diabetes and insulin basics.



People with diabetes are at higher risk for infections, so staying up to date with vaccines is important for your health.

Learn more about protecting yourself with vaccines if you have diabetes and vaccinations that may be right for you.

#### My Annual Immunizations:

Date:	Type:



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Are there resources to help with the costs of medications and devices to manage diabetes?

Start with the ADA's Ways to Help Manage Diabetes Care Costs to explore tips and resources that can lower your out-of-pocket expenses.

Check with manufacturers. Many companies that make diabetes medications and devices offer patient assistance programs, discount cards, or coupons, as well as savings on insulin, continuous glucose monitors, or other supplies.

#### Tother tips:

- Ask your health care team about lower cost alternatives that still help you meet your health goals.
- Look into state and local programs or nonprofits that offer financial support.
- Help is available. Ask your health care team about your options to make sure you can afford your medications.

# Preventing, Delaying, or Managing Diabetes Complications

Keeping your blood glucose (blood sugar) in your target range helps prevent both short- and long-term health problems. Highs and lows can happen with changes in your living situation, food, activity, or medications, so regular monitoring and support from your health care team will help you stay healthy.



# **Monitoring Blood Glucose**

Many tools can make managing diabetes easier—like continuous glucose monitors (CGMs), glucose meters, and health apps. Ask your health care team which options might work best for you and how to use them.



What can I use to check my blood glucose at home?

You can check your blood glucose at home using a glucose meter or a CGM. Your health care team can help you choose the right device and show you how to use it.



Are there ways to get help paying for blood glucose monitoring or other diabetes management devices?

Yes—there are several ways to get help with the cost of devices like blood glucose meters, CGMs, insulin pumps and smart pens:

- Manufacturers often offer savings programs or free trial offers. Ask your doctor or pharmacist if the brand you use has a coupon or patient assistance program.
- Copay help is available through nonprofits like the PAN Foundation and the Co-Pay Relief Program.
- Community health centers and Medicare/Medicaid counselors may offer extra support based on your income or insurance.



Learn more about devices and technology.

#### What should my glucose targets be?

Your targets will be based on your age, health conditions, risk of low blood glucose, and treatment plan. The general goals for most adults with diabetes are below along with space to fill in your targets:



Test:	Target Range for Most People with Diabetes:	My Targets:
A1C	Below 7% (may vary by individual)	
Before eating	80–130 mg/dL before meals	
After eating	Less than 180 mg/dL 1–2 hours after eating	
CGM users' time in range	Spend at least 70% of the day between 70–180 mg/dL	

Your health care team may adjust these goals based on your age, health conditions, or risk of low blood glucose.



# **Short-Term Health Challenges**

Low and high blood glucose are common short-term issues in type 2 diabetes. They can happen due to your medications, what you eat, or changes in your physical activity.

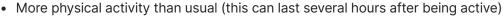


#### What is low blood glucose (hypoglycemia)?

Low blood glucose is when your blood glucose is too low—usually below 70 mg/dL.

A few of the common causes of low blood glucose are:

- Taking too much insulin or other diabetes medications
- Too little food or meals are delayed



#### Common symptoms:

- Shakiness
- Sweating
- Hunger
- Dizziness
- Confusion
- Feeling weak





#### How should I treat low blood glucose?

To treat low blood glucose (under 70 mg/dL) use the Rule of 15:

- 1. Eat or drink 15 grams of fast-acting carbohydrates like:
  - · Glucose tablets or gel
  - ½ cup (4 ounces) of juice or regular soda
  - 1 tablespoon of sugar or honey
- 2. Recheck your blood glucose after 15 minutes.
- 3. If your blood glucose is still low, repeat.

Once your blood glucose is above 70 mg/dL or trending up on your continuous glucose monitor (CGM), eat a protein and carbohydrate snack (example: cheese and crackers) if your next meal is more than an hour away.

If you're at risk for low blood glucose, always carry a quick source of carbs—like glucose tablets or gels—in case your blood glucose drops too low. Talk to your health care team about how to prevent and treat low blood glucose. Also ask if you're at risk for severe hypoglycemia and need a prescription for glucagon.



#### How can I prevent low blood glucose?

To help prevent low blood glucose:

- Take medications as prescribed—don't take more than prescribed.
- Follow your eating plan for meals and snacks.
- Check your blood glucose regularly, especially when changing your routine.
- Adjust food or medication when you're physically active (talk to your health care team about how).
- Carry a fast-acting carbohydrate with you at all times.
  - 📮 Tip: Review the results of your blood glucose monitoring and any patterns you see with your health care team to make sure you don't need to adjust your treatment plan to avoid low blood glucose.
- Learn more about low blood glucose.



#### What is high blood glucose (hyperglycemia)?

Hyperglycemia is when your blood glucose is higher than your target range. It can be caused by not taking enough medication, too much food, not enough physical activity, and stress or illness. Symptoms include increased thirst, frequent urination, feeling sleepy, and blurred vision.



📮 Tip: Talk to your health care team about what to do if your blood glucose levels are higher than your targets.

#### How should I manage my high blood glucose?

If you think your blood glucose is high, start by checking it to be sure. Drink water to stay hydrated and make sure to take your medications as prescribed (don't skip a dose). It's important to regularly talk with your health care team about your blood glucose goals and what steps to take if your numbers stay high. They may suggest changes to your treatment plan to help you reach your blood glucose targets.

If your levels stay high or you start feeling symptoms like nausea, vomiting, or confusion, contact your doctor right away—these could be signs of diabetic ketoacidosis (DKA), a serious complication of diabetes that occurs when your body produces a high amount of ketones due to a lack of insulin.

Notes:			



# **Health Problems Developed Over Time**

When you have type 2 diabetes, you are at higher risk of heart, kidney, eye, and nerve problems. Talk to your health care team about how to prevent and manage your risk for diabetes-related health problems and what signs to look for if they develop.

#### How can I prevent or manage diabetes related health problems?

Your health care team plays a key role in helping you stay healthy with diabetes. They can:

- Help you decide your blood glucose, blood pressure, and cholesterol targets
- Tell you when to have your eyes, kidneys, feet, and heart health checked
- Adjust and support your treatment plan, including medications, an eating plan, and physical activity to help prevent, delay, or address health problems
- Support your mental wellbeing
- Help you catch and manage problems early before they become serious
- · Help you stop smoking, vaping, or using e-cigarettes

Regular checkups and shared decision making will help you stay on track and prevent complications.

#### What are some important targets for managing my type 2 diabetes?

These are some of your most important targets, called the "ABCs" of diabetes:

- A1C (average blood glucose levels over the past two to three months)
- B (blood pressure)
- C (cholesterol)
- S (not smoking)



#### My ABCs:

Check:	My Numbers:	My Target	
A1C			
Blood pressure			
Cholesterol			

Talk with your health care team about your overall health—not just your blood glucose levels. Ask about treatments for health problems like high blood pressure, cholesterol problems, heart disease, kidney disease, and nerve problems. Managing these together with your diabetes can help you feel your best and prevent or delay health problems down the road.

### My Key Appointments:

Annual Check-Up Date:	
Follow-Up Lab Work Due:	
Next Diabetes Follow-Up Visit:	
Eye Exam Due:	
Dental Exam Due:	
Foot Exam Due:	
Next A1C Test Due:	



## My Heart, Liver, and Kidney Health:

Date:			
Blood Pressure:	1	Kidney Function (eGFR):	
Cholesterol:		LDL:	mg/dL
LDL:	mg/dL	TG:	mg/dL
UACR (urine albumin-to-creatinine ratio):	mg/g	FIB-4 Score:	

#### Key:

LDL = Low density lipoprotein

= High density lipoprotein HDL

TG = Triglycerides

FIB-4 = Fibrosis-4 index

#### Learn more about:

- Eye health
- · Oral health
- Neuropathy (nerve damage)
- · Foot health
- · Kidney health
- · Heart health
- Learn more about diabetes treatment and care as well as diabetes self-management education and support (DSMES).



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# **Getting Support**

Caring for your mind is as important as taking care of your body. Challenges with day-to-day tasks, work, money, housing, or food can add to the burden. If you're overwhelmed, reach out to your health care team for help.

Dearn more about understanding mental health and diabetes.



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#### Who can help me cope with the stresses from diabetes?

Living with diabetes can feel overwhelming—but you're not alone. The ADA recommends that everyone with diabetes have access to emotional and mental health support.

You can ask your health care team to connect you with:

- · A diabetes care and education specialist
- A mental health provider who understands diabetes
- Support groups—online or in person—to share what it's like to live with diabetes and encourage you



- Tip: Coping well is part of diabetes care. If you're feeling stressed, burned out, or down, speak up—your health care team is there to help.
- Learn more about finding a behavioral health partner.



### What community resources are available for people with diabetes?



Your health care team can help connect you to local diabetes self-management education and support (DSMES) programs, support groups, or wellness classes that focus on nutrition and physical activity. Some communities also offer help through health workers who can assist with scheduling appointments, understanding medications, or even finding healthy food options if cost is a concern. Reaching out and staying connected can give you the support you need to manage diabetes with more confidence and less stress.

Learn more about how to get help for your needs.

Notes:	
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An eating plan will help you manage your blood glucose, have a better relationship with food, and nourish your body to help it function at its best. Informed food choices are essential to preventing and living well with diabetes. Making purposeful decisions on the types of foods and how you build your plate can help contribute to your health goals.

#### What types of foods or meal plans are best for managing my diabetes?

There's no one "perfect" way to eat with diabetes, but your health care team can help you find a meal plan that works for you. A registered dietitian nutritionist (RDN) or diabetes care and education specialist can work with you to build a plan that fits your lifestyle, culture, and goals—and helps keep your glucose in your target range.

A simple place to start as you plan your meals is by using the Diabetes Plate. Aim to fill half your nine-inch plate with non-starchy vegetables, ¼ with lean protein, ¼ with quality carbohydrates (i.e., whole grains, starchy vegetables, beans, fruit, milk, or yogurt). Include water or low- or no-calorie beverage on the side.

There are seven healthy eating patterns that have been shown to effectively prevent or manage type 2 diabetes. The seven eating pattern options include: the Mediterranean Style, Dietary Approaches to Stop Hypertension (DASH), Low Carbohydrate, Very Low Carbohydrate, Vegetarian or Vegan, Low Fat, or Very Low Fat.

Learn more about how to eat healthy and healthy eating patterns.

#### Should I limit carbohydrates (carbs) to meet my diabetes management goals?

You don't have to cut out carbs completely, but your RDN can help you find the right amount and types of carbs for your needs. Choosing high-quality carbs—like fruits, starchy vegetables, yogurt, milk, whole grains, and legumes—and watching portion sizes can help you manage your glucose levels.

Your RDN can guide you in creating a balanced eating plan that supports your health goals.

Learn more about nutrition and the ADA's Diabetes Food Hub®.

#### Are sugar substitutes and non nutritive sweeteners safe for me to use?

For people living with diabetes, non-nutritive sweeteners do not appear to have a significant effect on blood glucose (blood sugar) and can help reduce calorie, sugar, and carb intake when used in moderation and in the short term.

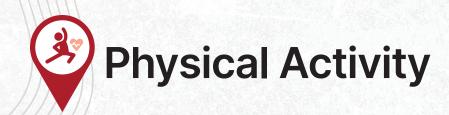
Dearn more about sugar substitutes.



#### Can I safely fast if I have diabetes?

People may fast for many reasons such as religious observations, lab tests, surgery, or weight loss. Fasting may be safe, but your doctor or health care team should first review your treatment plan to adjust medications and reduce your risk of hyperglycemia, hypoglycemia, or dehydration while fasting.





If you have concerns about what types of physical activity are right for you, talk with your health care team. They can help you create a safe and enjoyable plan based on your goals, interests, and abilities.

Look into local programs at community centers, parks, senior centers, or wellness facilities—many offer free or low-cost fitness options.

Being active along with reaching a healthy weight, eating well, managing stress, taking your medications, and getting support all work together to help you manage type 2 diabetes and stay healthy.

Learn more about lifestyle change programs and exercise and nutrition.



How does physical activity improve my diabetes management and general health?

Physical activity helps you manage your blood glucose (blood sugar) by improving how well your body uses insulin. It also supports weight loss goals and helps with your energy, mood, heart health, and stress.

Even small amounts of movement—like walking or light housework—can make a big difference. Talk with your health care team about the best ways to get moving safely and stay active.



### How much physical activity should I do?

Most adults with diabetes should aim for at least 150 minutes of moderate-intensity physical activity per week, such as brisk walking. That's about 30 minutes a day, five days a week. Also, try to move more and sit less throughout the day, limiting your time seated or inactive to 30 minutes if you can.

Include both strength activities (light weights or resistance bands) and stretching (flexibility) sessions twice a week.

If you're concerned about what activities are safe for you, talk to your health care team.

	Type:	Minutes:	On what days of the week:
My 150 min physical activity goals:			
My 2 strength session goals:			
My 2 flexibility session goals:			

⊕ Learn more about getting started safely, types of physical activity, and aerobic, resistance, balance, and flexibility exercises.

# **Bringing It All Together**

Navigating type 2 diabetes can feel challenging and overwhelming. By focusing on what inspires you—family, joy, connection, self-worth, tradition, vitality, and personal goals—you discover your own motivation in managing your diabetes. This passion fuels your commitment to seeking ongoing medical support, staying active, and eating healthfully, helping you live well.

#### Questions I want to ask my health care team:

1.	
2.	
3.	
Answers:	



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