

En Español

Living Well With Diabetes



A Self-Care Workbook

Created by:



In collaboration with:



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Your Learning Style

This self-care guide is designed to support your learning style. You can take the topics in the order that makes sense to you. You can cover a little or a lot in one session. You can view, print, or listen to the information, as well as watch videos and animations. It's all up to you. Finally, take the quiz at the end of each chapter to see how well you've understood the main concepts.

Guiding Your Way

Throughout this guide, use these interactive features to enhance your learning experience:



Print. Print out materials that can help you manage your diabetes. To use this feature, install the free Adobe Acrobat Reader (<http://get.adobe.com/reader/>).



Audio. Listen to the audio version of the information on the pages you are viewing. To use this feature, make sure you have the most recent free copy of Adobe Flash Player (<http://get.adobe.com/flashplayer/>).



Play. Play videos and animations by pressing the Play button that sits on or near the images.



Highlighted text. Click on any highlighted text (in red) and you will see a more detailed definition of that word.



Quizzes. Take the quiz at the end of each chapter to test your knowledge.



Help. Click the help button located on the Menu Bar to learn more about using this program.

Table of Contents

Chapter 1: You Can Live Well With Diabetes! 4

What is Diabetes?	4
Know Your Goal Numbers	5
Understanding Diabetes	7
Why High Blood Glucose Is a Problem.....	9
Diabetes and Cardiovascular Risk.....	10
Reducing Your Risk of Complications.....	11
Adjusting to Life With Diabetes	14
Get Support!	15
You're In Charge	16

Chapter 2: Monitoring Your Blood Glucose 17

Checking Blood Glucose	18
How the A1C Test Helps	20
Treating High and Low Blood Glucose...21	
Make Checking a Priority	22

Chapter 3: Creating a Meal Plan. 23

Setting Healthy Eating Goals	24
How Carbohydrates Affect Blood Glucose.....	26
Learn About Carb Counting	27
Carb Counting Quick Reference	27
Planning Your Meals	28
Eating Away From Home.....	30
Notes for Family and Friends.....	32

Chapter 4: Adding Activity to Your Life 33

Getting Active.....	34
Sticking With It.....	36
Overcoming Roadblocks	38

Chapter 5: Taking Medication 39

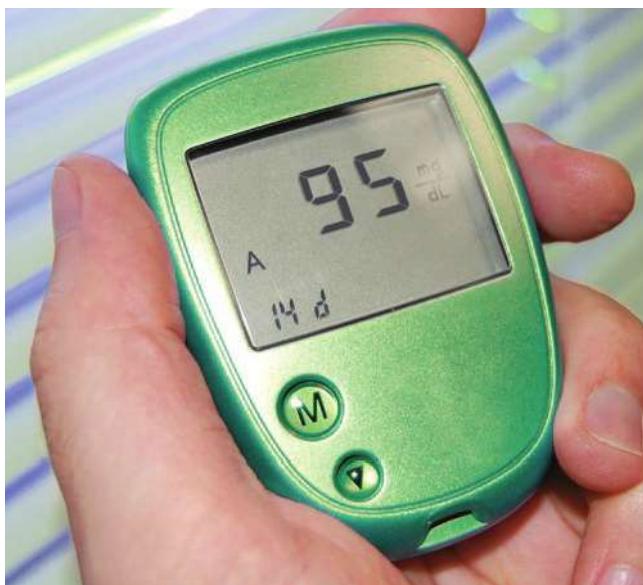
Taking Medication for Diabetes	40
Learning About Injections.....	42
Medications for Blood Pressure and Cholesterol.....	43
Managing Your Medications.....	44
Adjusting to a Medication Routine	46

Chapter 6: Maintaining Your Overall Health 47

Your Emotional Health.....	48
Your Physical Health	51
Diabetes and Intimacy	54
When You're on the Road.....	55
When You're Sick	56
Notes for Family and Friends.....	58
My Diabetes Tool Kit	59
Glossary of Terms	60
Resources.....	62

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You Can Live Well With Diabetes!

You've been given this workbook because you have diabetes. Diabetes is a **chronic** (lifelong) condition. Without treatment, it can result in serious health problems, including blindness, lower-limb amputation, heart disease, and stroke. But you can learn to manage diabetes. This workbook will help you understand what diabetes is and how it affects your health. It will also help you make daily decisions to manage your diabetes. Read on to find tips and tools you can use to live well with diabetes.

What Is Diabetes?

When you have **diabetes**, the **glucose** (sugar) level in your blood can become too high. (See page 8 to learn how this happens.) Over time, high **blood glucose** causes health problems, including damage to the heart, kidneys, eyes, and feet.

There is a way to keep track of how you're managing diabetes and its complications, however. It's called the ABC method: A for the A1C test, B for blood pressure, and C for cholesterol. By controlling your blood glucose, blood pressure, and cholesterol, you can better manage diabetes and reduce the risk of complications.

Anyone can develop diabetes. It can affect people of all ages and backgrounds. But there are some common risk factors for diabetes. These include:



- Family history of diabetes
- Lack of physical activity
- Being overweight
- Being over age 45
- Being African-American, Native American, Latino, Asian-American, Asian, Indian, or Pacific Islander
- History of gestational diabetes

Know Your Goal Numbers

The American Diabetes Association (ADA) gives target goals for **blood glucose** and **blood pressure**. Keep in mind that your goal numbers may be different. Talk to your health care provider about what your numbers should be. Then work together to fill out the Health Goals chart to the right.

CHAPTER 1: You Can Live Well With Diabetes!

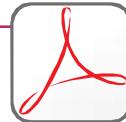
My Test Goal Numbers

Learn your target numbers for blood glucose control, cholesterol, blood pressure, and weight management. These and other numbers tell you and your diabetes team if your treatment plan is keeping you healthy.

Tests	ADA Targets	Current Numbers	My Goal Numbers
Blood Glucose A1C* Pre-meal blood glucose Postmeal blood glucose	<7% 80–130 mg/dL <180 mg/dL <small>Postmeal glucose measurements should be made 1–2 hours after the beginning of the meal.</small>		
Blood Pressure <small>A test that checks the force of blood flow through vessels</small>	<140/90 mm Hg <small>A general goal for blood pressure of <140/90 mm Hg is appropriate for many adults with diabetes. A lower blood pressure target may be appropriate for some patients. Ask your health care provider about the blood pressure target that is right for you.</small>		
Cholesterol and Blood Lipids LDL ("bad" cholesterol) HDL ("good" cholesterol) Triglycerides	<small>Cholesterol goals for LDL, HDL, and triglycerides are not the same for every patient with diabetes. Ask your health care provider about the cholesterol target that is right for you. If you have diabetes, you should have your cholesterol checked at the time of diagnosis, and/or at 40 years of age, and periodically thereafter.</small>		
Weight			

*The general goal of <7% appears reasonable for many adults with diabetes. More or less stringent A1C goals may be appropriate for other patients.

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Print out a chart to help track your own numbers.

Know Your Goal Numbers

Tests	ADA Targets
Blood glucose A1C*	<7%
Pre-meal blood glucose	80–130 mg/dL
Post-meal blood glucose	<180 mg/dL <small>Postmeal glucose measurements should be made 1–2 hours after the beginning of the meal.</small>
Blood pressure <small>A test that checks the force of blood flow through vessels</small>	<140/90 mm Hg <small>A general goal for blood pressure of <140/90 mm Hg is appropriate for many adults with diabetes. A lower blood pressure target may be appropriate for some patients. Ask your health care provider about the blood pressure target that is right for you.</small>
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*The general goal of <7% appears reasonable for many adults with diabetes. More or less stringent A1C goals may be appropriate for other patients.

Your Role in Managing Diabetes

Living with a chronic condition can be a challenge. Everyday life can distract you from diabetes management. But managing your diabetes is important. You don't have to go it alone. You can work with health care providers who can support and advise you in creating a management plan that is best for you. Remember, you're the expert on you. Make sure your plan is one that works for you.

How This Workbook Can Help

This book is not homework. It's full of tools to help you create a diabetes management plan you can stick with. Start by learning how eating healthy, being active, and taking medications as prescribed, if needed, can help you control your **blood glucose**, **blood pressure**, and **cholesterol**. Then use the tools you can download from this guide to write down your management plan and blood glucose, blood pressure, and cholesterol goals. Doing this will help you stay on top of your health. Keep this book handy so you can refer to it whenever you need to.

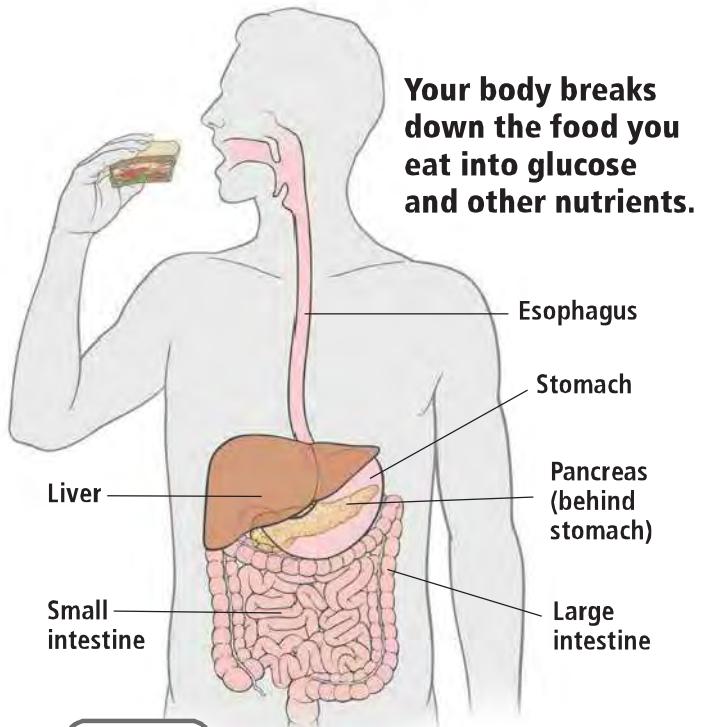


Understanding Diabetes

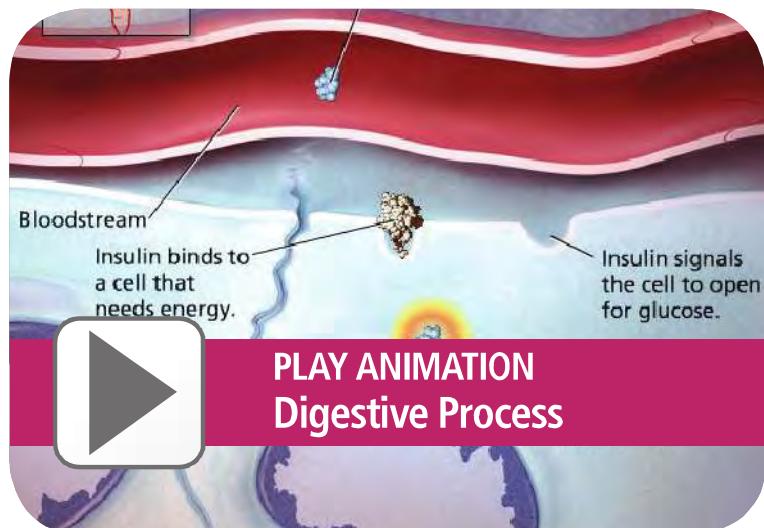
The body digests the food you eat to use as fuel. This fuel supplies energy to your body's cells. When you have **type 2 diabetes**, the fuel has a hard time entering most cells.

How the Body Gets Energy

The **digestive system** breaks down food, resulting in a variety of nutrients including sugar (**glucose**). Some of the glucose is stored in the liver. Most of it enters the bloodstream and travels to cells to be used as fuel. Glucose needs the help of a **hormone** called **insulin** to enter most cells. Insulin is made in the **pancreas**. It is released into the bloodstream in response to meals and also by the presence of glucose in the blood. Think of insulin as a key. When insulin reaches a cell, it unlocks a doorway in the cell wall. This creates an opening that allows glucose to enter the cell. Some cells do not need insulin and glucose can enter them without it.



PLAY ANIMATION
Digestive System

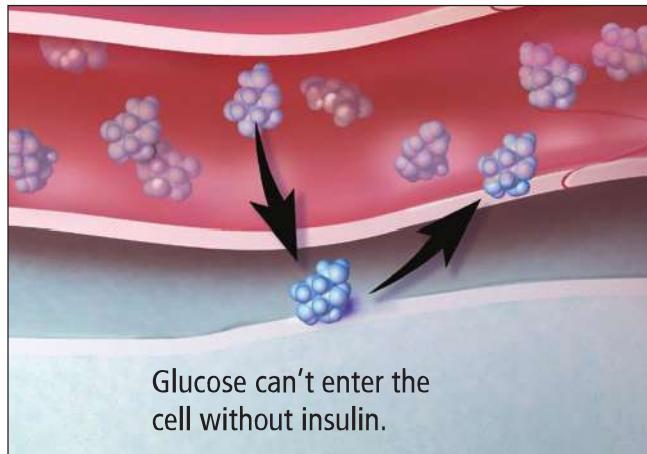
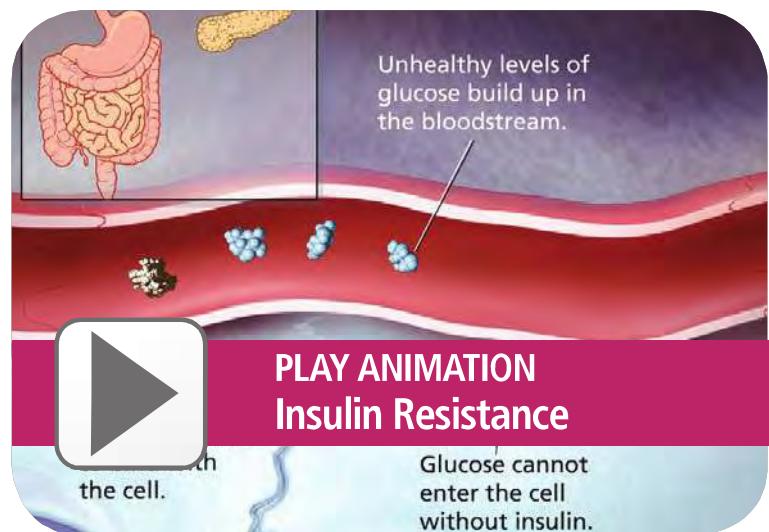


PLAY ANIMATION
Digestive Process



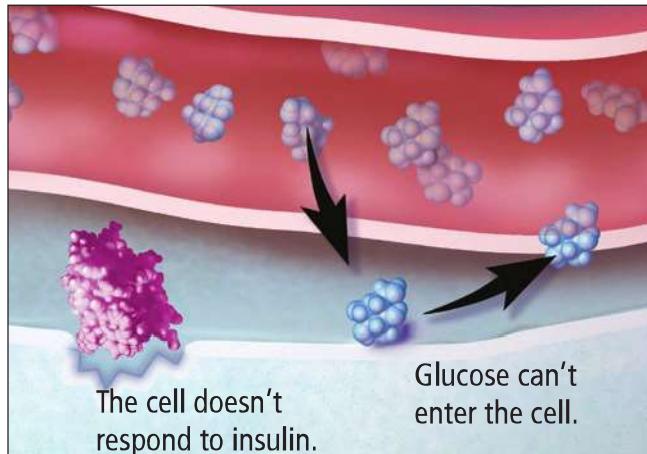
When You Have Type 2 Diabetes

With type 2 diabetes, your body may not make enough insulin, and/or may not use insulin the right way. This means that glucose has trouble entering most cells. If it can't enter the cells, glucose builds up to a harmful level in the bloodstream. This is called high blood glucose (**hyperglycemia**). There are two types of diabetes. Both are discussed below.



Type 1 Diabetes

When you have type 1 diabetes, the **pancreas** is usually not making any insulin at all. Type 1 diabetes most often develops in children. But people at any age can also get it. People with type 1 must take insulin every day.

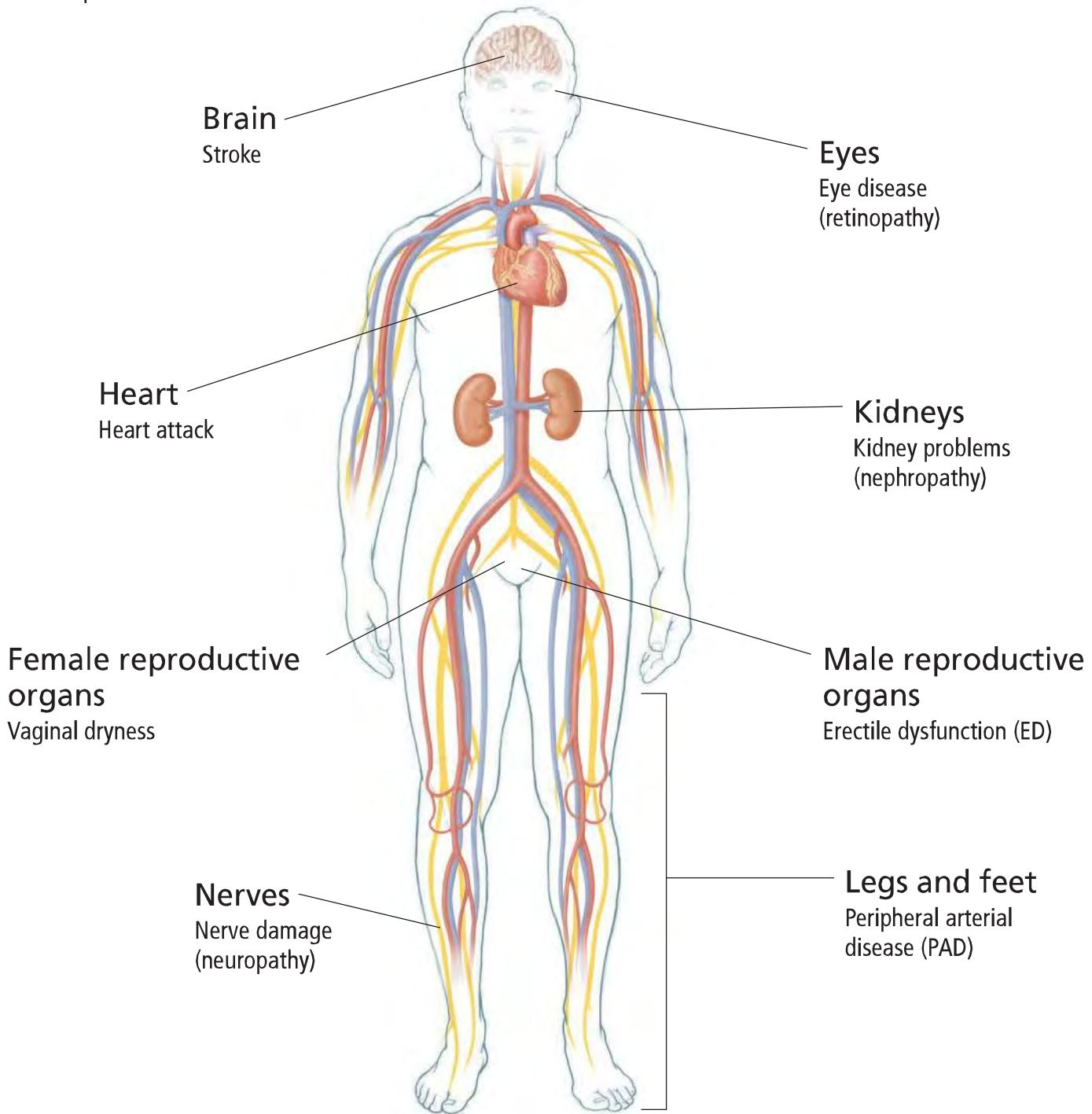


Type 2 Diabetes

When you have type 2 diabetes, your cells do not respond to insulin the way they should. This is called **insulin resistance**. The pancreas may try to overcome resistance by making more insulin. But, over time, the pancreas may not be able to provide enough insulin. People with type 2 diabetes may also need to take insulin. (But taking insulin does not mean that type 2 has become type 1.)

Why High Blood Glucose Is a Problem

Over time, high blood glucose damages your **blood vessels**, both large and small. This damage can lead to **complications** that affect the whole body. Complications include heart attack, **stroke**, kidney disease, vision problems, blindness, nervous system problems, and risk of lower-limb loss (amputation). But, by controlling your blood glucose, blood pressure, and cholesterol according to your treatment plan, you can help reduce your risk of complications.

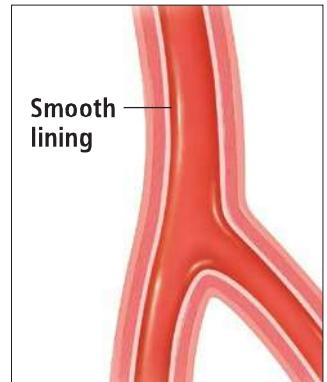


Diabetes and Cardiovascular Risk

Over time, diabetes can lead to **cardiovascular** (heart and blood vessel) disease, including heart attack and stroke. People with long-term very high blood glucose are especially at risk. High blood pressure and high cholesterol are conditions that also increase your risk of artery damage. The risk is even greater when combined with high blood glucose.

High blood pressure also raises your risk for eye problems and kidney disease. High blood pressure makes your heart work harder than it should.

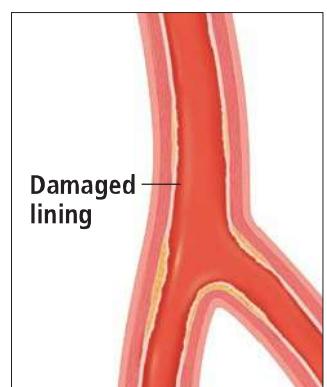
Your cholesterol numbers tell you about the amount of cholesterol, a fat-like substance, in your blood. Some kinds, like HDL cholesterol, help protect your heart. Others, like LDL cholesterol, can clog your arteries. High triglycerides raise your risk for a heart attack or a stroke.



When the lining is smooth, blood flows easily through the arteries.

Diabetes Damages Artery Walls

Elevated levels of glucose in the blood affects the lining of **artery** walls. (An artery is a type of blood vessel. A vein is another type.) Arteries carry blood from the heart to the rest of the body. When arteries are healthy, the lining is smooth. But when you have diabetes, the artery lining becomes damaged over time by high blood glucose, high blood pressure, and cholesterol. This allows the buildup of **plaque** (fatty materials, such as cholesterol) in the arteries. Cigarette smoking can also damage the artery lining. People with diabetes who smoke have a higher risk for that damage than those who do not.

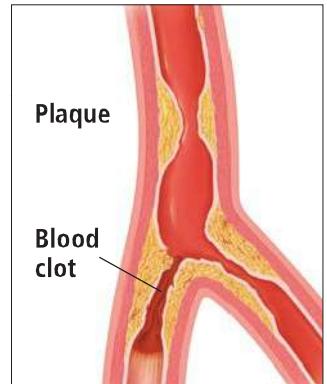


Over time, high blood glucose damages the lining.

How Heart Attack and Stroke Happen

The buildup of **plaque** narrows arteries. This means that any blockage, such as a blood clot, can cut off blood flow. When this happens, heart attack or stroke can occur. Many people with diabetes need to control their blood pressure and/or cholesterol. By not smoking and controlling your blood glucose, blood pressure, and cholesterol, you can help reduce the risk of these problems.

If you smoke, quitting smoking is one of the most important changes you can make for your health. Talk with your health care provider about ways to stop smoking. Together, you can make a plan to quit. Quitting may be hard and take some time. But, the potential health benefits are worth it.



Plaque builds up in the artery walls, making it hard for blood to get through.

Reducing Your Risk of Complications

Controlling blood glucose, blood pressure, and cholesterol can help reduce the risk of long-term complications of diabetes. Talk to your health care provider to learn more.

Heart Disease and Stroke

Diabetes is itself a risk factor for heart disease and stroke. Heart attack and stroke affect people with diabetes more than twice as often as people without diabetes.

In fact, two out of three people with diabetes die from heart disease or stroke, which are together called **cardiovascular** disease. Clogged blood vessels can lead to heart attack, stroke, and other problems.

Heart Disease

Coronary artery disease, sometimes called hardening of the arteries, is caused by narrowing or blocking of the blood vessels that go to your heart.

Your blood carries oxygen and other needed materials to your heart. If the blood vessels to your heart become partially or totally blocked by fatty deposits, then the blood supply is reduced or cut off. Then a heart attack, sometimes called a myocardial infarction or MI, can occur.

Print out this helpful sheet to keep track of your blood pressure.

Print out this helpful sheet to keep track of your cholesterol levels.

Heart Attack: The Warning Signs

These are the signs of a heart attack:

- Chest pain or discomfort
- Pain or discomfort in your arms, back, jaw, neck or stomach
- Shortness of breath
- Sweating
- Indigestion or nausea
- Light-headedness
- Tiredness or fatigue

You may not experience all of these symptoms, and they may come and go. Chest pain that doesn't go away after resting may signal a heart attack. Diabetes can cause nerve damage that can make heart attacks painless or "silent." If you have warning signs of a heart attack, call 911 immediately.

Heart Failure

Heart failure doesn't mean your heart has stopped working. It means that the heart is less able to pump the blood the body needs. Heart failure may be caused by a number of problems, such as heart attack, coronary artery disease, and **high blood pressure**. In congestive heart failure, fluid builds up inside body tissues such as the lungs. This makes breathing difficult.

Heart Failure: The Warning Signs

The warning signs for heart failure can vary. These can include:

- Shortness of breath
- Weakness
- Nausea
- Fatigue
- Swelling of the feet and ankles (from fluid retention)

Stroke

A stroke happens when the blood supply to part of your brain is suddenly cut off. This damages brain tissue. Strokes usually happen when a blood clot blocks a blood vessel in the brain or neck.

A stroke can cause movement problems, pain, numbness, and problems with thinking, remembering, or speaking. Sometimes people also experience emotional problems, such as depression, after a stroke.

People with diabetes are 1.5 times more likely to have a stroke than are people who don't have diabetes. But people with diabetes can lower their risk of stroke by taking care of their health.

Stroke: The Warning Signs

The warning signs for stroke can develop suddenly and can include:

- Weakness or numbness on one side of the body
- Sudden confusion or trouble understanding
- Trouble talking, dizziness, loss of balance, or trouble walking
- Trouble seeing out of one or both eyes
- Double vision
- Severe headache

You can help lower your risk for heart disease by doing the following:

- Control your blood sugar, blood pressure, and cholesterol.
- Be physically active for at least 30 minutes on most days of the week.
- Reach and stay at a healthy weight
- Eat foods high in fiber and low in fat.
- Stop smoking
- Take medications as directed by your health care provider

Diabetes Damages Nerves

Diabetes is a leading cause of nerve damage. About half of all people with diabetes have some form of nerve damage. Nerve damage is also called **neuropathy**. It can cause tingling, pain, or numbness in your feet and hands. It can also affect the nerves in your body that control your digestive system, urinary tract, sex organs, heart and blood vessels, sweat glands and eyes. Keeping your blood sugar, blood pressure, and cholesterol levels in your target range can help prevent or delay nerve damage and other problems.

Diabetes Damages Kidneys

Your kidneys have millions of filters that remove waste from your blood. These filters keep protein in the blood. High blood glucose can damage these filters. When kidney disease starts, the filters in the kidneys do not work well. This causes protein to pass into the urine. Having protein in the urine is called albuminuria. You cannot see or feel this, but your health care provider can test your urine for it. Without treatment, the kidneys will get worse. Once this happens, the kidneys have a harder time controlling the body's fluid levels. This can cause high blood pressure or make high blood pressure worse. When the kidneys do not work, a machine can be used to filter waste from the blood through a process called dialysis.

Things you can do to help prevent kidney disease:

- **Visit your health care provider regularly.** Get screened for kidney disease to catch problems early. Your health care provider can check your blood pressure, urine (for protein), and blood (for waste products).
- **Follow your health care provider's advice.** Sometimes exercise, changes to your diet, and medicine can help keep your kidneys healthy.
- **Keep your blood glucose under control.**
- **Keep your blood pressure at goal.** High blood pressure can lead to kidney disease or make it worse.
- **Lose weight, if you are overweight**
- **Consume less salt**
- **Avoid drinking alcohol and smoking**
- **Be active every day.** Talk to your health care provider before starting any physical activity.

Adjusting to Life With Diabetes

You know that managing your diabetes can help you stay healthy and live your life. Still, some people find that daily diabetes management feels like a lot to handle. Diabetes affects your daily routine, at home, school, and work. Change isn't always easy. But with practice, diabetes management can become a habit. As you get started, you'll likely have questions or concerns. See the box below for some common questions about diabetes and where in this workbook to find answers.



Common Concerns for People With Diabetes

Question	Answer
Does having diabetes mean I can't have any sugar?	All foods can fit into a healthy meal plan. See page 25.
Do I have to join a gym?	You don't have to spend money to be active. See page 34.
Will I have to give myself shots every day?	Not necessarily. See page 41.
What if I feel overwhelmed?	Taking care of your emotional health is a priority, too. See page 48.

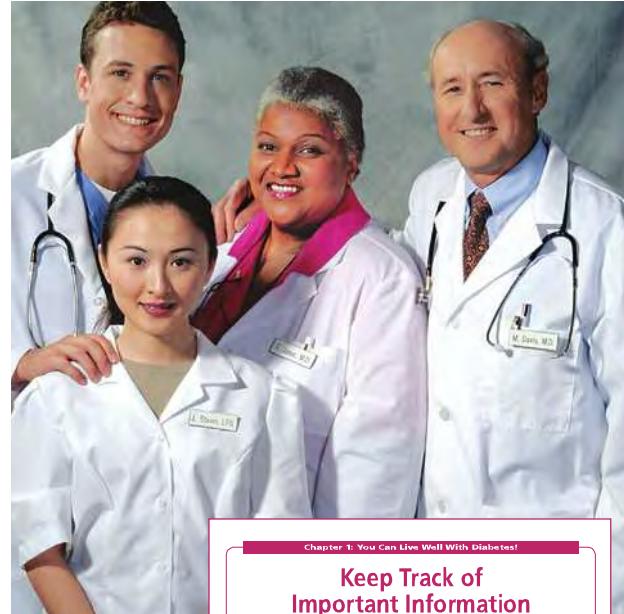
Get Support!

Managing your diabetes is mostly up to you. But you don't have to go it alone. A team of health care experts will teach you how to manage diabetes and the health risks it brings. Your family and friends can also provide support. Think about what kind of help you will need. Then decide whom to ask for that support.

Your Health Care Team

Your diabetes health care team will work with you to create a management plan. Team members may include:

- **A primary care provider**, such as a general practitioner, internist, nurse practitioner, or physician's assistant. This is the person whom you probably see most often and who can refer you to specialists as needed.
- **An endocrinologist**, a doctor who specializes in diabetes.
- **A registered dietitian**, an expert in food and nutrition, to teach you how food affects your blood glucose and how to plan meals.
- **A diabetes educator**, often a nurse, to teach you to manage and live with diabetes.
- **A health psychologist or social worker**, to help you with the emotional aspects of managing your condition.
- **A pharmacist**, who fills your prescriptions and explains your medications.



Chapter 1: You Can Live Well With Diabetes!

Keep Track of Important Information

Exams, Tests, and Vaccinations Wallet Card
(Cut around dotted line and fold in half)

Exams, Tests, and Vaccinations	Next Due Date	Exams, Tests, and Vaccinations	Next Due Date	Exams, Tests, and Vaccinations	Next Due Date	Exams, Tests, and Vaccinations	Next Due Date	Exams, Tests, and Vaccinations	Next Due Date
Eye exam (every year)		Blood pressure (every doctor visit)		Cholesterol (check in once a year)		Fast blood sugar (every year if diabetic)		HbA1c (once a year)	
Diabetes test (if at risk)									

Provider Contact Information Wallet Card
(Cut around dotted line and fold in half)

Primary Care Provider	Endocrinologist	Registered Dietitian	Diabetes Educator	Health Psychologist or Social Worker	Pharmacist	Ophthalmologist	Orthopedic Doctor	Pediatrician	Dentist

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Your Family and Friends

Family and friends can help support your efforts to take care of your health. They may be concerned about your condition and worried about complications. Or, it may be hard for them to understand all the changes you are making. But the important people in your life can help you succeed. People who care about you want to help. Think about the people who can support you, and the specific ways they can help. Then ask for the support you need. Your family and friends can help you stay focused and confident as you learn to manage diabetes.

Print out this helpful sheet to keep track of important information.

Reasons to Manage Your Diabetes

Diabetes can take a toll on your body and lifestyle. Here are just a few of the benefits you gain by creating and sticking with a management plan:

- May help reduce your risk of serious complications such as heart attack, stroke, blindness, or lower limb loss
- Have more energy and a better sense of well-being
- Miss fewer days of work, school, or other regular activities

Congratulations!

You've just finished this chapter. Now click on the "Take a Quiz" button to find out how much you have learned.



Take a Quiz

Chapter 2

Monitoring Your Blood Glucose



In this section, you will learn:

- ✓ The importance of checking your blood glucose
- ✓ How to know if your treatment plan is keeping your blood glucose where you want it to be
- ✓ What to do when your blood glucose is too high or too low

Checking Blood Glucose

The first step in managing diabetes is learning to check (monitor) the level of **glucose** (sugar) in your blood. This will help you make daily decisions about blood glucose control. Monitoring isn't hard to do. Your diabetes team will show you how. You will also learn how to keep a record of your numbers (readings). Your readings show you how food, activity, stress, and medication affect your **blood glucose** every day.

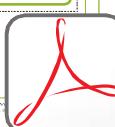
Using a Blood Glucose Meter

You can check your blood glucose at home, at work, or anywhere else. Your diabetes team will help you select a **blood glucose meter**. A meter measures the amount of glucose in your blood. You'll use a **lancet** to prick your finger for a tiny drop of blood. The meter then gives you a reading that tells you the level of your blood glucose. With today's meters, you can test just about anywhere you go.

Aim for Your Target Range

Your blood glucose should be in your **target range** as often as possible. This means not too high and not too low. Staying in this range as often as possible helps reduce your risk of complications. Your diabetes team will help you figure out your ideal target range. Fill in the numbers for your target range using the form below.

Chapter 2: Monitoring Your Blood Glucose	
Checking Blood Glucose	
Aim For Your Target Range Your blood glucose should be in your target range as often as possible. This means not too high and not too low. Staying in this range as often as possible helps reduce your risk of complications. Your diabetes team will help you figure out the target range that is right for you. Fill in your numbers on the wallet card below. Then cut out a wallet card and take it with you whenever you go.	
Wallet Card (Cut along dotted line)	
My Target Range Before a Meal: Between _____ and _____ 2 Hours After a Meal: Between _____ and _____	My Target Range Before a Meal: Between _____ and _____ 2 Hours After a Meal: Between _____ and _____
My Target Range Before a Meal: Between _____ and _____ 2 Hours After a Meal: Between _____ and _____	My Target Range Before a Meal: Between _____ and _____ 2 Hours After a Meal: Between _____ and _____



Print out this helpful sheet and fill in your target range.



Track Your Readings

Every time you check your blood glucose, use a log to keep track of your readings (see below). You may check in the morning, at bedtime, and before and after meals. Be sure to write down all your numbers. Use your log to record things that might have affected your blood glucose. This may include being sick, being very active, stressed, or eating special foods on a holiday.

Sample Log

Day	BLOOD GLUCOSE LOG															
	Breakfast				Lunch				Dinner				Nighttime (if needed)			
	Before		2 Hours After		Before		2 Hours After		Before		2 Hours After		At Bedtime		Middle of Night	
Time	Number	Time	Number	Time	Number	Time	Number	Time	Number	Time	Number	Time	Number	Time	Number	
Sun	7am	144	9am	185	12pm	124	2pm	230	5:30pm	152	7:30pm					
Mon																
Tues																

Chapter 2: Monitoring Your Blood Glucose

My Blood Glucose Log

Print out this log to record your daily blood glucose readings. Bring your recent logs to all doctor's appointments.

Date	Breakfast		Lunch		Dinner		Nighttime (if needed)	
	Time	Number	Time	Number	Time	Number	Time	Number
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BLOOD GLUCOSE LOG

Print out this log to record your daily blood glucose readings. Bring your recent logs to all doctor's appointments.

My Blood Glucose Log

Print out this log to record your daily blood glucose readings. Bring your recent logs to all doctor's appointments.



Print out this helpful sheet to track your daily blood glucose readings.

What Do the Readings Mean for You?

Keeping track of your blood glucose readings helps you identify patterns. These patterns tell you how your actions affect your blood glucose. For example, you may notice high or low numbers after eating certain foods. Use these patterns to make decisions about steps you can take to keep your blood glucose in your target range. Be sure to take your log book with you every time you see your health care provider. And be honest! There are no "good" or "bad" numbers. The readings just tell you if you need to make changes to your treatment plan.



How the A1C Test Helps

You use a meter to track your blood glucose every day. But you also need to know if your treatment plan is working for you over time. An **A1C (glycated hemoglobin)** test can help. This test measures your average blood glucose level over 2 or 3 months. If your A1C number stays too high, your treatment plan may need changes.

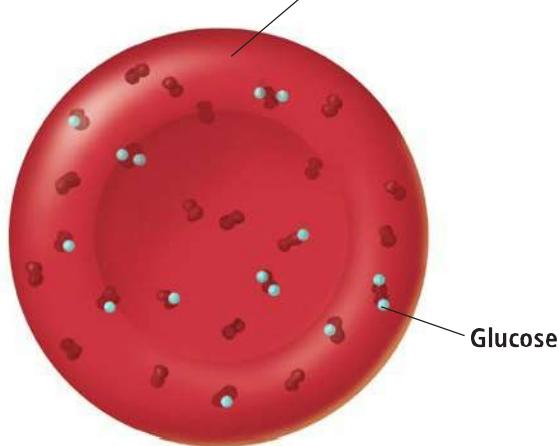
Your A1C Goal

An A1C result often is shown as a percentage. Your health care provider will help you figure out your target A1C. Many people aim for an A1C of 7% or lower. The general goal of <7% appears reasonable for many adults with diabetes. Higher or lower A1C goals may be appropriate. Ask your health care provider what A1C goal is right for you. Your target A1C number will depend on your age, general health, and other factors. Achieving your A1C goals may help lower your risk of **complications**.

The A1C Test

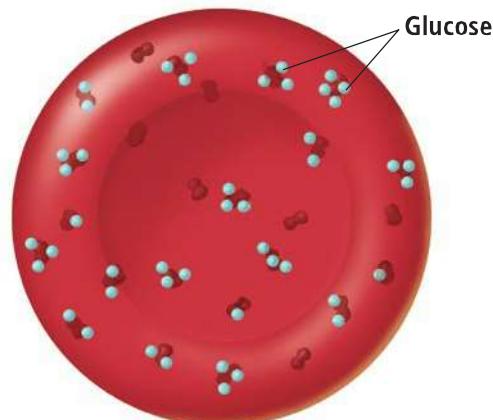
The A1C is a blood test. It measures how much **glucose** is connected to a protein (called hemoglobin) inside the red blood cells over the prior 2 to 3 months. You will likely have an A1C test every 3 to 6 months. Your health care provider may have your A1C tested 2 times a year (ie, every 6 months) if you are meeting your treatment goals and have stable blood glucose control. However, your health care provider may have your A1C tested more frequently (eg, every 3 months) if your therapy has changed or if you are not meeting your blood glucose target. Talk with your health care provider to schedule an A1C. And don't forget to follow up on the results.

Without Diabetes



Healthy red blood cells have some glucose connected to them.

With Diabetes



A high A1C means that too much glucose is connected to the cells.

Treating High and Low Blood Glucose

Many things (including food, physical activity, and medication) can raise or lower blood glucose. Extreme highs and lows can be dangerous! Some people connect how they feel with having a high or low blood glucose. Others may not. That's why you have to check using a blood glucose meter. Ask your health care provider which numbers outside your **target range** are dangerous for you.

High Blood Glucose

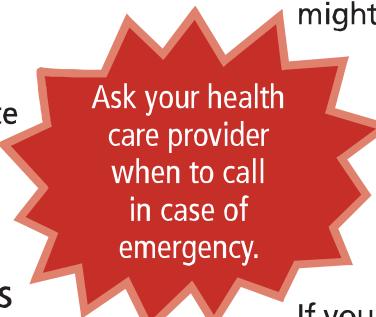
Hyperglycemia means that your blood glucose is too high (for example, 200 mg/dL). You might experience:

- Increased thirst
- Increased need to urinate
- Increased tiredness
- Blurred vision

If You Feel Symptoms

Always check your blood glucose right away. If it's too high:

1. Drink water or other sugar-free liquids to stay hydrated.
2. If you take **insulin**, you may need to take an extra dose. Ask your health care provider for instructions about taking extra insulin.
3. Check at least every 4 hours to make sure your blood glucose is going down. Call your health care provider if it doesn't go down after two checks, or if symptoms get worse.



Ask your health care provider when to call in case of emergency.

Low Blood Glucose

Hypoglycemia means that your blood glucose is too low (for example, 70 mg/dL or lower). A drop in blood glucose can happen very quickly. You might have:

- Sweating or cold, clammy skin
- Dizziness, shakiness, or tingling feeling
- Hard, fast heartbeat, or headache
- Confusion or irritability

If you don't notice symptoms of low blood glucose or if you have had episodes of severe hypoglycemia, your health care provider may tell you to raise your target blood glucose.

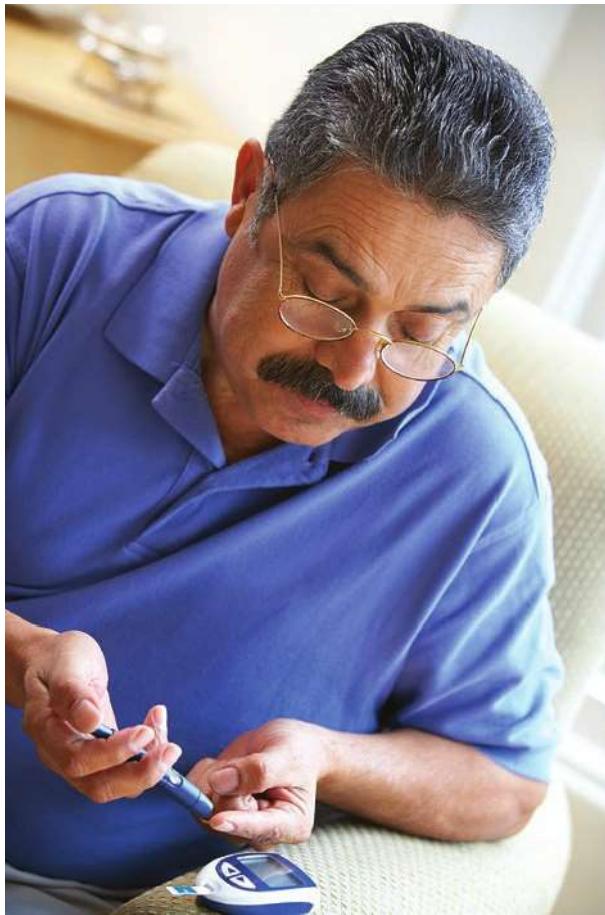
If You Feel Symptoms

Always check your blood glucose right away. If it's too low:

1. Eat or drink 15 grams of **fast-acting carbohydrate**. This could be 3 or 4 glucose tablets or ½ cup (4 oz) of fruit juice.
2. Check your blood glucose again after 15 minutes. If it's still low, repeat step 1. Check again after another 15 minutes. If it's still too low, call your health care provider right away.
3. Once your blood glucose rises, eat a small snack if your next planned meal is over half an hour away.

Notes for Family and Friends:

It's important that you learn to recognize the signs of hypoglycemia (low blood glucose), which can come on quickly. You may need to be prepared to provide glucose tablets or another fast-acting carbohydrate. In some cases, a special injection (of a hormone called **glucagon**) is needed if severe hypoglycemia occurs in a person who uses insulin. You may need to learn how to inject this medication in an emergency.



Make Checking a Priority

You can't always have perfect blood glucose control. But make the effort to keep your blood glucose in your target range as often as possible. Check your blood glucose as directed. And make sure you get an A1C test every 3 to 6 months. This will help you decide if you need to change your management plan to reach your blood glucose goals.

Chapter 2: Monitoring Your Blood Glucose

Overcoming Barriers

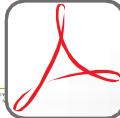
Are you remembering to check your blood glucose as often as you planned? If not, what's stopping you? Write down the barriers. Be specific. For each barrier, write out a solution you can tick with. Write it down on the page provided. Then refer back to the chart whenever you need a reminder!

Example: Change I want to make: Remember to test my blood glucose 2 hours after eating.
What's stopping me: I forget when I eat too much or work.
Solution: Set an alarm to go off when I need to check my blood glucose. Or pick an activity I do every day, and do it right at that time, such as doing a task.

Change I want to make:
What's stopping me:
Solutions:

Change I want to make:
What's stopping me:
Solutions:

Change I want to make:
What's stopping me:
Solutions:

 This form is a free download from Diabetes.org. To download, visit www.diabetes.org/blood-glucose-management/printable-tools.

Print out this helpful sheet and write down your barriers and solutions.

Congratulations!

You've just finished this chapter. Now click on the "Take a Quiz" button to find out how much you have learned.



Take a Quiz

Chapter 3

Creating a Meal Plan



Eating healthy foods every day is key to controlling your blood glucose. In this section, you will learn:

- ✓ How different foods affect blood glucose levels
- ✓ How to create a diabetes-friendly meal plan and put it into action
- ✓ How to stick to your meal plan away from home

Setting Healthy Eating Goals

A key part of controlling **blood glucose** is eating healthy foods every day. You don't have to stop eating the foods you like. But you do need to know how food affects your blood glucose. Ask to meet with a **registered dietitian** (an expert on food and nutrition). The dietitian will teach you the skills you need to plan healthy, diabetes-friendly meals.

Getting Started

Before you see the dietitian, you may be asked to keep a food diary for a few days. Write down all the foods you eat and when you eat them. Bring this list with you when you see the dietitian. It will help the dietitian get to know your eating habits.

Working With the Dietitian

The dietitian will work with you to design a meal plan. The meal plan will be based on your likes and dislikes. The dietitian will teach you how the foods you eat affect blood glucose. You'll learn how to judge serving and portion sizes of the foods you eat. Creating a plan you can live with will help you keep your blood glucose in your **target range**.



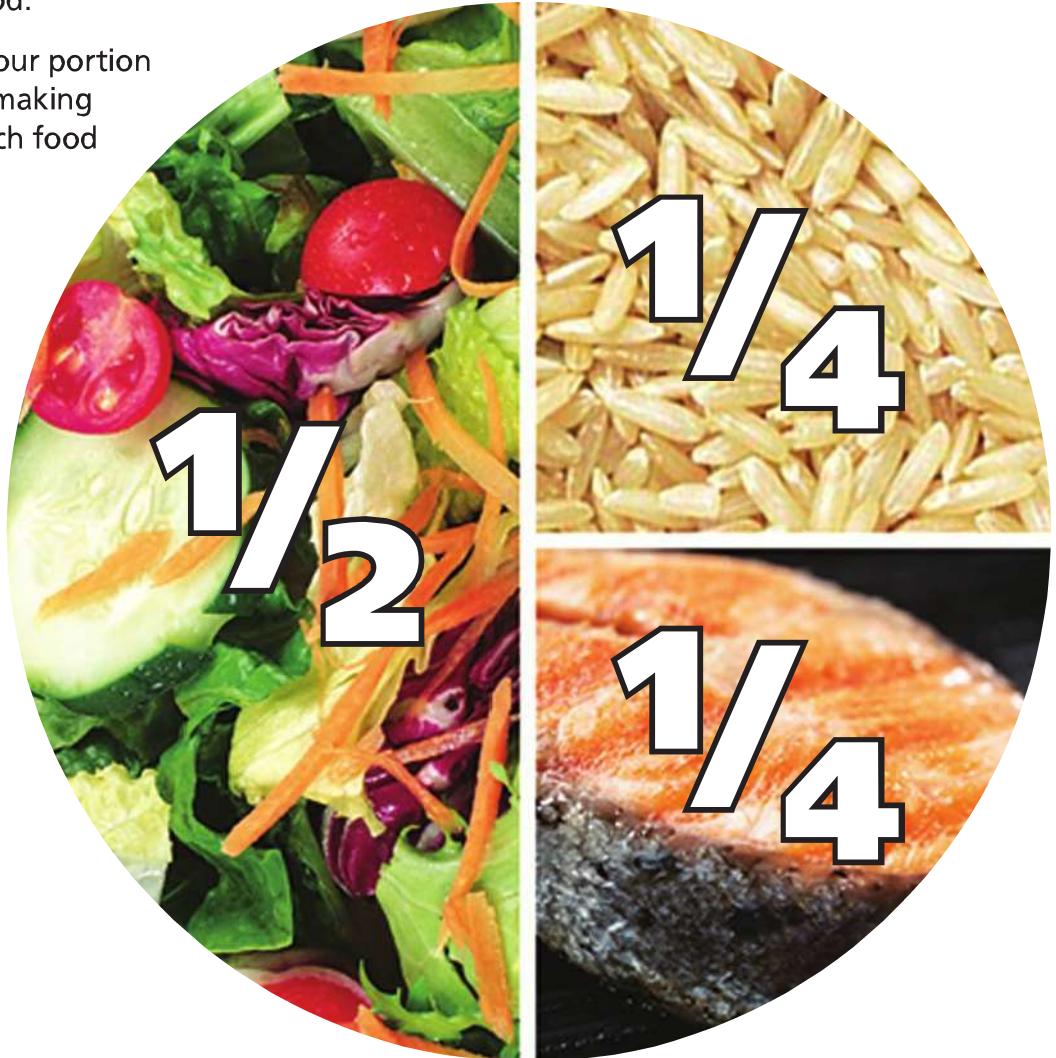
You may work with the dietitian one-on-one or in a group class.

Getting Started With Diabetes Meal Planning

Often, when people are diagnosed with diabetes, they don't know where to begin. One way is to adjust the portions you are already eating. It's an easy way to get started with managing blood glucose levels.

Focus more on filling a 9-inch plate with nonstarchy vegetables and having smaller portions of starchy and protein foods. You don't need any special tools or have to do any counting. It's simple and effective — draw an imaginary line on your plate, select your foods, and enjoy your meal! You may have heard of this as the "Plate Method."

Once you've changed your portion sizes, you can work on making healthier choices for each food group.



How Carbohydrates Affect Blood Glucose

Just as a car needs the right type of fuel (gas) to run, you need the right kind of fuel (food) to function. To sustain energy, your body needs food that contains **carbohydrates**. But carbohydrates raise blood glucose levels higher and faster than other kinds of food.

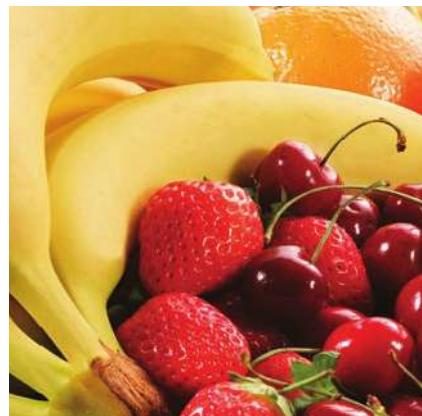
What Foods Contain the Most Carbohydrates?

You need to eat carbohydrates every day. But the more you eat, the higher your blood glucose may rise. To help keep your blood glucose in your target range, learn which foods contain carbohydrates. Then decide how much of these foods fit into your meal plan. The main types of carbohydrates are: starches, sugars, and fiber (a type of carbohydrate that doesn't raise blood glucose).



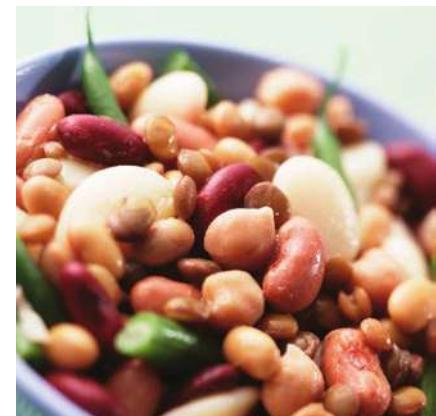
Starches

Starches are found in grains, some vegetables, and beans. Grain products include bread, pasta, cereal, and tortillas. Starchy vegetables include potatoes, peas, corn, lima beans, yams, and squash. Kidney beans, pinto beans, black beans, garbanzo beans, and lentils also contain starches.



Sugars

Sugars are found naturally in many foods. Or sugar can be added. Foods that contain natural sugar include fruits and dairy products. Added sugars are found in most desserts, processed foods, candy, regular soda, and fruit drinks. You can find added sugars in the ingredient list on food labels. Limit foods with added sugar.



Fiber

Fiber comes from plant foods. Most fiber isn't digested by the body, so it doesn't raise blood glucose like other carbohydrates. Fiber is found in fruits, vegetables, whole grains, beans, peas, and many nuts.

Learn About Carb Counting

You can learn to figure out how much carbohydrate you are eating every day. Ask your dietitian to teach you a technique called “**carb** counting.” This system helps you keep track of the carbohydrates you eat at each meal. There are different ways to do carb counting. See the chart below to learn more.



Carb Counting

- When you count carbohydrate grams, you use the “Nutrition Facts” label on packaged foods. The label tells you the actual carbohydrate amount (in grams) in a food.
- To give you an idea of how much carbohydrate is in food:

1 slice of bread = 15 grams of carbohydrate

1 apple = 15 grams of carbohydrate

1 cup milk = 12 grams of carbohydrate

- A dietitian can help you determine how many grams of carbohydrate to have at each meal. (If you take insulin, you will also learn how to adjust your mealtime insulin based on your carbohydrate intake.)
- The dietitian will help you determine how many carbohydrate servings to have at each meal and snack.
- This method is a good way to get started with carb counting.

Carb Counting Quick Reference

The “Nutrition Facts” label on packaged food tells you how many grams of carbohydrate are in the food. (See page 29 to learn about reading food labels.) But some foods, such as fresh vegetables, don’t have labels. Or you may be eating away from home, where food is already removed from its packaging. If you are counting carbs, learn the serving sizes of carbohydrate-containing foods that you eat often. Use this chart to look up the serving sizes of many common foods.

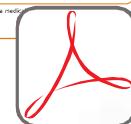
Carb Counting Quick Reference

Chapter 3: Creating a Meal Plan		
Carb Counting Quick Reference		
The “Nutrition Facts” label on packaged food tells you how much carbohydrate is in the food. (See page 29 to learn about reading food labels.) But some foods, such as fresh vegetables, don’t have labels. Or you may be eating away from home, where food is already removed from its packaging. If you are counting carbs, then how much carbohydrate is in fresh foods you eat often. Use this chart to look up how much carbohydrate many common foods include.		
Reminder:	Read the food label and use a tool like MyFoodAdvisor ® to explore how much carbohydrate is in your favorite foods.	
Grains (starches)	Fruits	
Bags (16 oz.) 1 bag	Applesauce (unsweetened), 1 cup	14g
Bread (white, 1 slice)	Apricots, 17 grapes (1oz)	14g
Cooked (steamed & mashed)	Apple juice (unsweetened), 1 serving	22g
Doughnut (medium, yeast, glazed), 1 doughnut	Banana (extra small), 4 inches long	15g
Graham cracker (2½ inches sq.), 3 crackers	Blueberries, ¾ cup	16g
Muffin (whole wheat), 1 muffin	Cherries, 12 halves	17g
Oatmeal, ½ cup	Crab cocktail (extra light syrup), ½ cup	14g
Pasta (1/3 cup)	Grapes, 17 grapes (1oz)	15g
Pita bread (whole, 6 inches), ½ pita	Orange (small), 1 orange (6½ oz)	15g
Popcorn (microwave, 94% fat free), 3 cups	Peach, medium peach	14g
Pretzels (1 oz.)	Peaches (canned in extra light syrup), ½ cup	14g
Rice (long grain white), ½ cup	Pineapple (canned in extra light syrup), ½ cup	14g
Tortilla, 1 tortilla	Pineapple (diced), ½ cup (8 oz)	14g
Tortilla chips, 1 oz	Raisins, 2 Tbsp.	14g
Tortilla chips, 1 oz	Raspberries (fresh), 1 cup	15g
	Strawberries, 1½ cup (whole berries)	14g
Starchy Vegetables and Beans	Dairy Products	
Beans, ½ cup garbanzo 27g, pinto 18g, kidney 20g, black 21g	Milk (1%, reduced fat), 1 cup	15g
Butter beans (canned, drained), ½ cup	Milk (2%, whole milk), 1 cup	17g
Corn, frozen (cooked), ½ cup	Pudding (reduced fat), ½ cup	26g
Lentils, cooked, ½ cup	Soy milk (fat-free or low-fat), 1 cup	6g
Peas (frozen, green), ½ cup	Yogurt (plain, low-fat), 1 cup	12g
Potato (baked or boiled), 1 medium, 8 oz.	Yogurt (frozen, fat-free), ½ cup	12g
Potato mashed, no gravy (8 oz.)		
Winter squash (acorn, butternut, spaghetti pumpkin, acajou), 1 cup		

Source: MyFoodAdvisor, turnerpublications.org/AmericanDiabetesAssociation, Inc.

This reference guide is not intended as a substitute for professional medical advice. It is for your healthcare provider to diagnose and treat a medical condition. © 2002 American Diabetes Association, Inc. All rights reserved. Used with permission.

Print out this handy reference.



Planning Your Meals

You'll work with a dietitian to design a meal plan. Your plan needs to fit with your eating habits and schedule. Planning what and when you eat helps keep your blood glucose in your target range. Aim to eat foods from all the food groups every day.

Eat From All the Food Groups

Eating from all the food groups gives your body the nutrients it needs to work properly. The six food groups are: grains, vegetables, fruits, proteins, dairy, and oils. Work with the dietitian to include a variety (many types) of foods from each group. Variety can keep you from getting bored with your plan.

If You Want to Lose Weight

If you want to lose some weight, reduce the amount of calories you take in. Reducing your portion sizes will help (review the plate method on page 25). Two more ways to cut calories are eating less fat and drinking fewer sugary beverages:

- Cut fat by using only small amounts of liquid oil for cooking (instead of butter, shortening, or lard). Avoid packaged foods with trans fats.
- Reduce the amount of regular soda, sports drinks, and fruit juice that you drink. Instead, drink plenty of water and other sugar-free liquids.



How Often Should You Eat?

When it comes to blood glucose control, when you eat is as important as what you eat. You may want to eat several small meals spaced evenly through the day to stay in your target range. Pay attention to what keeps your blood glucose steady. And don't eat most of your food at one time. Doing so can cause your blood glucose to rise too high or fall too low.

Putting Your Meal Plan Into Action

Consult your meal plan before you go to the store. Decide ahead of time what you want to cook and make a list. This helps you stay on track while you shop. At the grocery store, read food labels to help you make the healthiest choices. If you don't do the shopping, be sure the person who does understands your needs.

When You're Shopping

Look for the "Nutrition Facts" label on packaged foods. It tells you how much of the food makes up one serving. It also tells you how much carbohydrate and fat are in each serving. This will help you decide if the food fits into your meal plan.

- Look for brightly colored fruits and vegetables.
- Buy lean meats, such as chicken, turkey, and fish.
- Avoid high-fat snack food aisles.
- Look for whole-grain foods and low-fat dairy products.

Nutrition Facts

Serving Size 1 cup (240g)

Servings Per Container 2

Amount Per Serving

Calories 100 **Calories from Fat** 20

% Daily Value*

Total Fat 2g **3%**

Saturated Fat 0g **0%**

Trans Fat 0g

Cholesterol 0mg **0%**

Sodium 70mg **3%**

Total Carbohydrate 17g **6%**

Dietary Fiber 3g **12%**

Sugars 5g

Protein 4g

Vitamin A 70% • Vitamin C 20%

Calcium 15% • Iron 8%

*Percent Daily Values are based on a 2,000 calorie diet. Your Daily Values may be higher or lower depending on your calorie needs.

Serving Size

This tells you how much of the food makes up one serving. If you eat more than one serving, all the other values increase.

Saturated Fat

This is the total amount of saturated fat in each serving. Limit saturated fats and avoid trans fats. Both are bad for your health.

Sodium

A healthy meal plan with less salt can help you control your blood pressure. Limit your salt to no more than 2,300 mg each day if you have diabetes. For people with both diabetes and high blood pressure, a further reduction in sodium may be necessary.

Total Carbohydrate

This tells you how many grams of carbohydrate are in one serving. If you do carb counting, this number helps you fit the food into your meal plan.

When You're Cooking

Use the following tips to help you prepare healthier, diabetes-friendly meals at home:

- Trim fat off meats before cooking.
- Broil, steam, bake, or grill meats and vegetables instead of frying.
- Use olive or canola oil instead of butter or lard for cooking.
- Don't cook meat and vegetables in cream- or butter-based sauces.

Eating Away From Home

You may not always have control over what is available to eat or how it's prepared. But you can choose which foods to eat and how much to eat at once. You can follow your meal plan, even when you eat away from home.



At a Restaurant

At restaurants, use the following tips to help you stick to your meal plan:

- Ask how food is prepared. Avoid fried or breaded foods, or ones sautéed in butter or cream.
- Ask if sauces and dressings can be served on the side, and use them sparingly.
- Most restaurants serve large portions. Eat half your meal and take the rest home.
- At a buffet, remember the portion-size plate diagram on page 25. Devote at least half your plate to vegetables and green salad, and $\frac{1}{4}$ each to starch and protein.
- Split a dish or dessert with a friend or family member.
- Skip the bread or chips basket before the main meal.

If You Drink Alcohol

Drinking alcohol can lower your blood glucose level. It can affect you up to 24 hours after drinking. **Never** drink when your blood glucose is low or on an empty stomach! And be aware that alcohol adds calories. You may have to adjust your meal plan if you decide to have a drink. Ask your health care provider or pharmacist if any of the medications you take interact with alcohol.

Holidays and Special Occasions

Parties and holidays often involve special or traditional foods and drinks. Eating foods that aren't normally part of your meal plan can affect your blood glucose. But you can adjust your meal plan or **insulin** dose to allow for these foods. (Ask your health care provider to show you how.) Remember to check your blood glucose often to see how different foods affect you. And talk to your health care provider and clergy about safer ways to fast during religious holidays.

Social Situations: When It's Hard to Say "No"

Well-meaning family and friends may not always understand your meal choices. This can be especially true at parties or other social gatherings. But you don't have to eat or drink something that affects your blood glucose just to be polite. If you find yourself eating or cooking to please others, try the tips below:

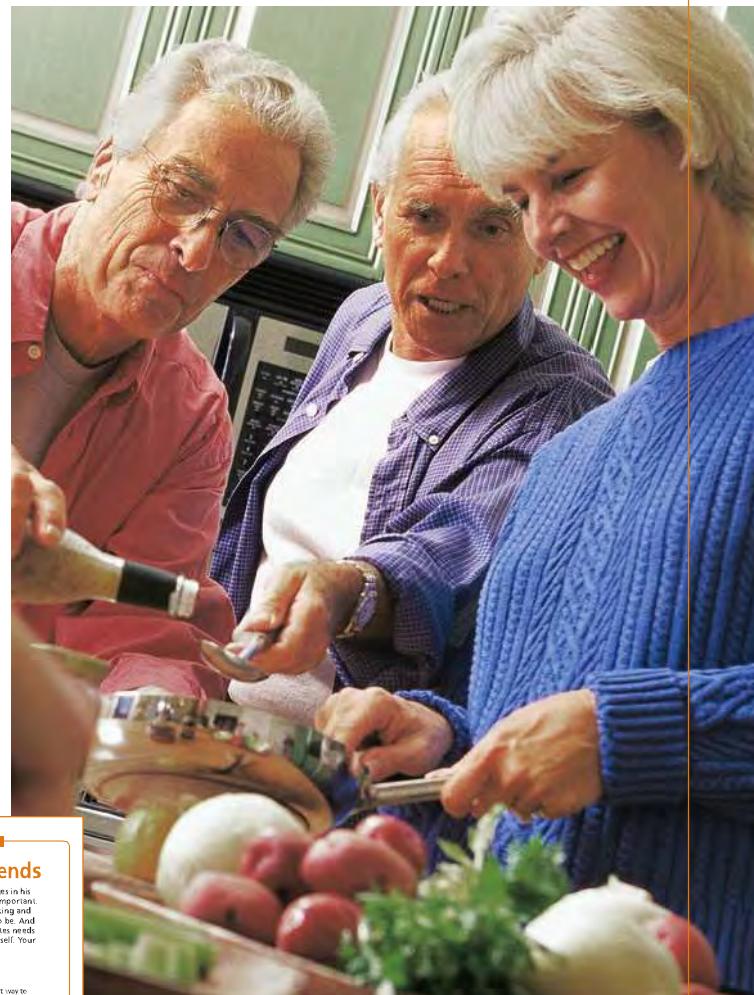
- You can accept any food and drink that is offered. But you don't have to eat or drink it. Just holding a drink or small plate of food is often enough. This will usually keep people from insisting that you have another helping or another drink.
- Plan ahead. Bring a dish to share that you know you will enjoy. Then you won't have to feel deprived if most of the offered food doesn't fit into your meal plan.
- At home, you can cook different side dishes or prepare traditional foods in healthier ways. Talk with your family about the benefits these changes can bring.

Notes for Family and Friends

A family member with diabetes may choose to make changes in his or her eating habits. Your support during this time is very important. You can encourage him or her to explore new ways of cooking and eating. Ask how involved your family member wants you to be. And remember: Change can be difficult! The person with diabetes needs to be the one to decide on making changes for him- or herself. Your job is to be supportive.

You Can Do It, Too!

You may choose to change your own eating habits, too. This is a great way to offer your support. Eating healthier is better for the whole family. For more ways you can support your family member with diabetes, print out the sheet to the right. Check off one or two things you would like to try.



Chapter 3: Creating a Meal Plan
Notes for Family and Friends
<p>A family member with diabetes may choose to make changes in his or her eating habits. Your support during this time is very important. You can encourage him or her to explore new ways of cooking and eating. Ask how involved your family member wants you to be. And remember: Change can be difficult! The person with diabetes needs to be the one to decide on making changes for him- or herself. Your job is to be supportive.</p>
<p>You Can Do It, Too!</p> <p>You may choose to change your own eating habits, too. This is a great way to offer your support. Eating healthier is better for the whole family. Below are some things you could do to support your family member with diabetes. Check off one or two things you would like to do:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Ask if your family member wants to be reminded about his or her meal plan. If not, don't ask. <input type="checkbox"/> Buy one keep healthier, diabetes friendly foods in the house. Eat these foods yourself. <input type="checkbox"/> Remember that eating and food can be very emotional topics! Believe in your family member's ability to make changes. Saying "I know you can do it" goes a long way. <p>Write down your own methods of support here:</p> <hr/> <hr/> <hr/>

Print out this helpful sheet and write down your methods of support.

Congratulations!

You've just finished this chapter. Now click on the "Take a Quiz" button to find out how much you have learned.



Take a Quiz

Chapter 4

Adding Activity to Your Life



Getting active is a great way to help manage your blood glucose. In this section, you will learn:

- ✓ How losing even a little weight can lower your blood glucose
- ✓ Why just getting out and walking helps your cells use glucose
- ✓ Ways to overcome barriers that are keeping you from meeting your activity goals

Getting Active

Being physically active every day can help you manage your **blood glucose**, blood pressure, and cholesterol. That's because an active lifestyle can improve your body's ability to use **insulin**. Daily activity can help reduce the risk of **complications** of **diabetes**. And it's a great way to relieve stress. If you aren't normally active, be sure to consult your health care provider before getting started.

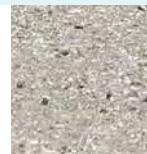
How Much Activity Do You Need?

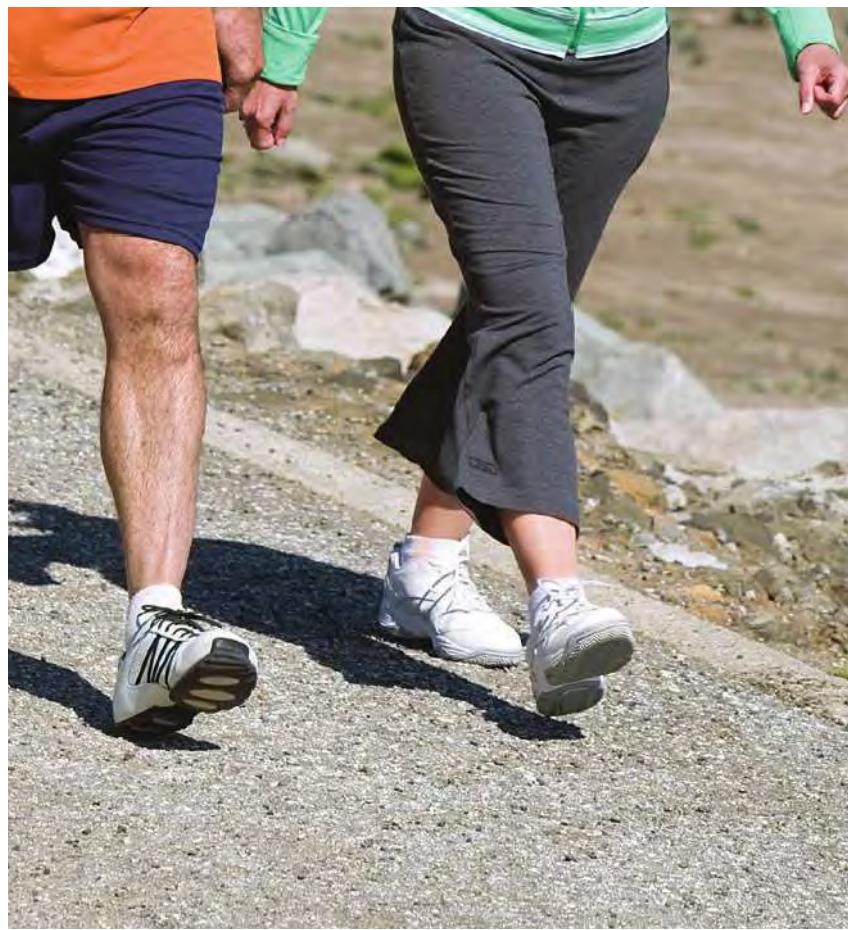
If daily activity is new to you, start slow and steady. Try to do a total of at least 150 minutes per week of aerobic exercise, such as brisk walking, spread over 3 or more days a week. If you are just starting out, start with 5 minutes a day and gradually add more time. Do this by adding a few minutes each week. It doesn't have to be done all at once. Each active period throughout the day adds up.



If You Want to Lose Some Weight

If you are overweight, work up to 60 minutes of daily activity. Weight loss can help improve your ability to keep your blood glucose in your **target range**. Even a modest loss of 5 to 10 pounds can help you meet your blood glucose goals. Other potential benefits of weight loss include increased energy and improved mood. Talk with your health care team before starting any exercise program and about setting a weight-loss goal that is right for you.





Build Up Your Strength

To feel your best, your health care provider may suggest adding strengthening exercises to your routine. Exercises such as lifting weights, working with resistance bands, and swimming are good choices. When done at least three times a week, resistance exercises help build muscle and increase endurance. They may also help improve heart health and help you manage your weight.

Sticking With It

Make daily activity a lifelong habit. Once you feel good about being active, look for ways to stick with your new active lifestyle. The key is finding activities that you enjoy. Vary your routine from day to day to keep from getting bored. Print out the sheet below for ways to add activity to your day. Check off at least two ideas that you would like to try.

Chapter 4: Adding Activity to Your Life

Getting Active

Sticking With It

Make daily activity a lifelong habit. Once you feel good about being active, look for ways to stick with your new active lifestyle. The key is finding activities that you enjoy. Vary your routine from day to day to keep from getting bored. See the box below for ways to add activity to your day. Check off at least two ideas that you would like to try.

Keep Activity Simple	Make Activity Fun
<p>Physical activity doesn't have to be hard to do. Help you manage your time by adding physical activity to items in your everyday routine, such as:</p> <ul style="list-style-type: none">□ Yardwork (weeding, mowing the lawn, or raking leaves)□ Riding a bike to go shopping or errands□ Walking the dog around the neighborhood after dinner□ Parking farther away from store entrances□ Taking the stairs instead of the elevator whenever possible	<p>Plan activities you enjoy. The more fun you have, the more likely you'll stick with it. Here are some ideas to get started:</p> <ul style="list-style-type: none">□ Join a social group that walks or does another activity.□ Bowl or golf with friends.□ Put on your favorite music and dance at home.□ Find interesting places to walk, such as museums, parks, malls, or the zoo.□ Hike, bike, or go to the park with kids or grandchildren.

Talk to your healthcare provider before you start or change your physical activity routine.

 This document is available for download from the National Institute on Aging website at www.nia.nih.gov/health-information/physical-activity. © 2013 National Institute on Aging, NIH.

Print out this helpful sheet and write down your ideas.



Be Smart When You Exercise

Being active may cause blood glucose to drop faster than usual. This is especially true if you take certain medications to help control your blood glucose. But there are things you can do to help reduce the risk of low blood glucose levels.

Keep These Tips in Mind

- Include friends and family in your activities.
Being active with a “buddy” is safer than being alone.
- Wear a medical ID bracelet that says you have diabetes.
- Always carry identification. Carry a cell phone in case of emergency.
- Use the right safety equipment (such as a bicycle helmet).
- Be sure to wear closed-toed shoes that fit your feet.
- Drink plenty of water before and during activity.
- Keep a fast-acting carbohydrate (or glucose tablets) on hand in case of low blood glucose.
- Dress for the weather.
- Avoid being active for long periods in very hot or very cold weather. For instance, go out in the evening if it’s too hot during the day.
- Skip activity if you’re sick.

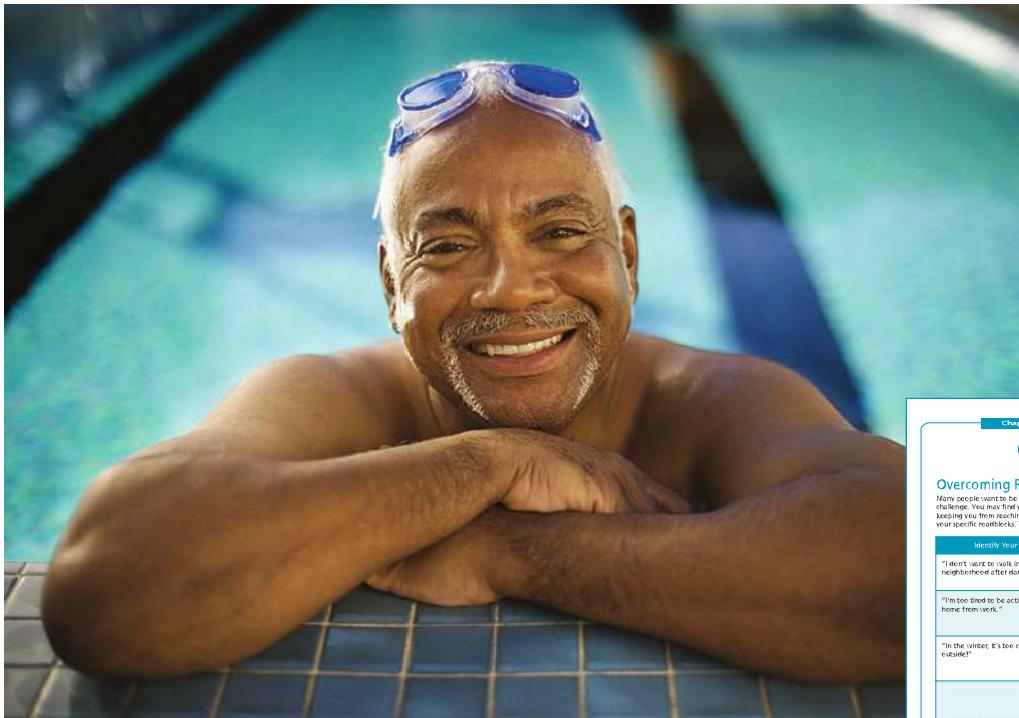


Notice How Activity Affects Blood Glucose

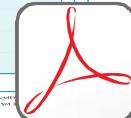
Physical activity is important when you have diabetes. But you need to keep an eye on your blood glucose level. Check often if you have been active for longer than usual, or if the activity was unplanned. Make it a habit to check your blood glucose before being active. Check again several hours later (blood glucose may decrease for a few hours after activity). Use your log book to write down how activity affected your numbers. If you take insulin, you may be able to adjust your dose before a planned activity. This can help prevent low blood glucose. Talk to your health care provider to learn more.

Overcoming Roadblocks

Many people want to be as active as possible. But being active every day can be a challenge. You may find yourself making excuses or getting distracted. If so, what's keeping you from reaching your activity goals? Print out the chart below to write down your specific roadblocks. Then fill in ideas that can help you stay on track.



Getting Active	
Overcoming Roadblocks	
<p>Many people want to be as active as possible. But being active every day can be a challenge. You may find yourself making excuses or getting distracted. If so, what's keeping you from reaching your activity goals? Print out the chart below to write down your specific roadblocks. Then fill in ideas that can help you stay on track.</p>	
Identify Your Barriers	Solutions to Keep You Moving
"I don't want to walk in my neighborhood after dark."	Walk inside the house! Dance to your favorite music, or pop in a workout video or DVD.
"I'm too tired to be active when I get home from work."	Take breaks for short walks during the day. Three 10-minute walks will boost your energy and help you meet a 30-minute goal.
"In the winter, it's too cold to walk outside!"	Find a place near you. Take a walk at the mall or library, or while grocery shopping. Or, walk up and down the stairs at home.
<small>This worksheet is not intended to substitute for medical advice. See your doctor if you have questions about your health.</small>	



Print out this helpful sheet and write down your roadblocks and solutions.

Congratulations!

You've just finished this chapter. Now click on the "Take a Quiz" button to find out how much you have learned.



Take a Quiz

Chapter 5

Taking Medication



Most people with diabetes need medication. In this section, you will learn:

- ✓ How different medications work
- ✓ How to develop a daily medication routine

Taking Medication for Diabetes

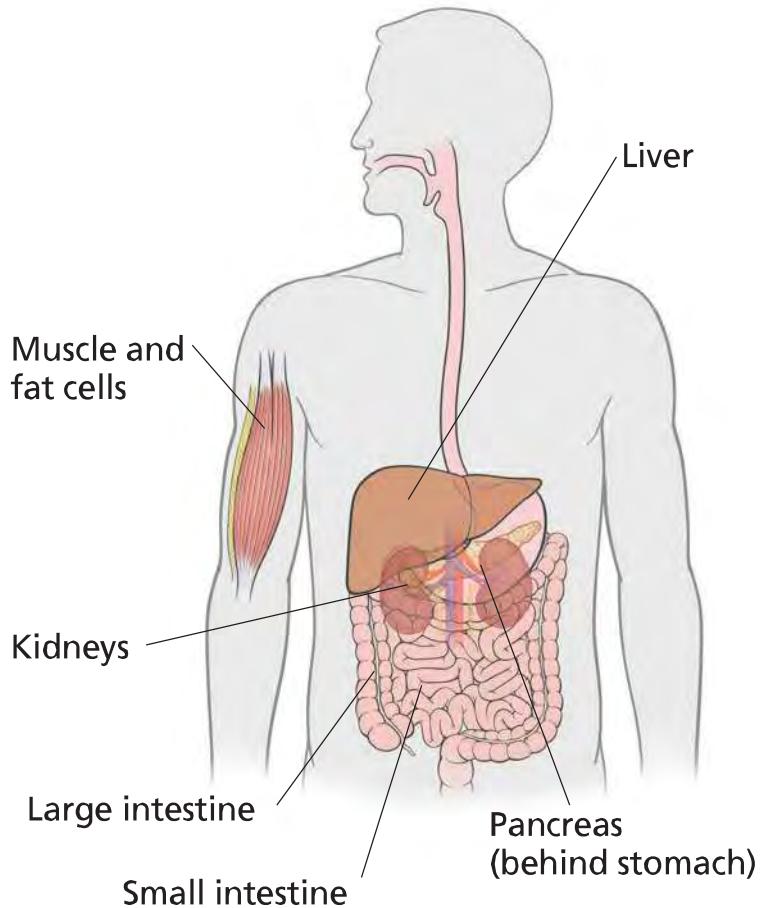
Like healthy eating and physical activity, taking medication can help you manage your blood glucose, blood pressure, and cholesterol. Glucose-lowering medications improve your ability to keep your blood glucose in your **target range**. Similarly, blood pressure and cholesterol medications help keep those levels within your target ranges.

Learn About Your Medications

The next three pages will tell you about the different types of glucose-lowering medications and how they work. Many people take one or more medications to help manage their diabetes. Talk with your health care provider, **diabetes educator**, nurse, or pharmacist and learn the names of your medications. Then have him or her help you fill out the chart on page 41.

Where the Diabetes Medications Work

Talk to your health care provider about your medications. Medications affect different parts of the body. For instance, some medications increase insulin sensitivity in cells. Some prevent the **liver** from making and releasing too much **glucose**. Some cause **carbohydrates** to break down more slowly in the **digestive tract**. Some stimulate the pancreas to produce and release more **insulin**. Some cause excess glucose to be eliminated in the urine. The diagram below shows where different glucose-lowering medications work. For the chart on the next page, talk to your health care provider about the medications you are taking and how they work.



Different Ways of Taking Medication

There are many kinds of medications. Some medications can be swallowed. Others have to be injected, or else they would be broken down in the stomach before reaching the bloodstream. Some are inhaled. The main ways of taking medication for diabetes are shown below.



Oral medications

Pills



Inhaled medications

Medications that are breathed in



Injections

Shots given using a syringe or pen-like device



Insulin pumps

Devices that can deliver a steady amount of insulin 24 hours a day

Chapter 5: Taking Medication	
Your Medications	
Medication	How the Medication Works
Name of your medication:	
Oral	
Name of your medication:	
Name of your medication:	
Injected	
Name of your medication:	
Name of your medication:	

This workbook is not intended as a substitute for professional medical care. Only your doctor can diagnose and treat a medical condition. ©2009, 2010, 2011, 2012, 2013 Daymark, LLC. All rights reserved. Made in the USA.

Print out this handy medication list.



Understanding Insulin

Many people with type 2 diabetes end up needing insulin. Taking insulin can give you greater flexibility in your daily blood glucose management. You will learn how to adjust your dosage based on your blood glucose goals, meal plan, and activity level. Talk with your health care provider about the types of insulin. You may need to use more than one type.



PLAY VIDEO
Insulin and Diabetes

Learning About Injections

Insulin and certain other medications are given by **injection**. Giving yourself shots every day might seem overwhelming at first. But they can help you feel better and improve your blood glucose control.



Getting Familiar With Shots

Your diabetes educator will help you practice giving yourself shots until you feel more comfortable. You may find that giving yourself shots is easier than you thought. And with practice, it can become part of your everyday routine.

Managing Injections Anywhere You Go

You won't always be at home when it's time for insulin shots. You'll need to inject insulin no matter where you are. You might have concerns about giving yourself injections in public. But managing diabetes means taking care of yourself, not worrying about what people might think. Most injection devices can be used quickly and quietly, even at the dinner table. And you can choose more private locations to perform injections, such as public restrooms or your parked car. Be prepared to give yourself shots anywhere you go.

Medications for Blood Pressure and Cholesterol

High **blood pressure** and high **cholesterol** can increase your risk of **artery** damage. The risk is even greater when combined with high blood glucose. You may also need to take medications for high blood pressure and high cholesterol to help prevent serious health problems.

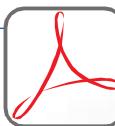
Blood Pressure and Cholesterol

Your blood pressure checks how hard your heart has to work to pump blood to your body. Cholesterol is a fat-like substance in the blood. Everyone's body makes cholesterol. Cholesterol also comes from the foods you eat. Many people with diabetes will also need to take medications for high blood pressure and high cholesterol.

Keep a Medication List

Use a chart to keep track of your medications. (There's a full-size chart on this page that you can print out, copy, and carry with you.) Be sure to keep this list up-to-date. Bring a copy with you every time you see a health care provider or pharmacist.

Print out this handy
medication list.



Managing Your Medications

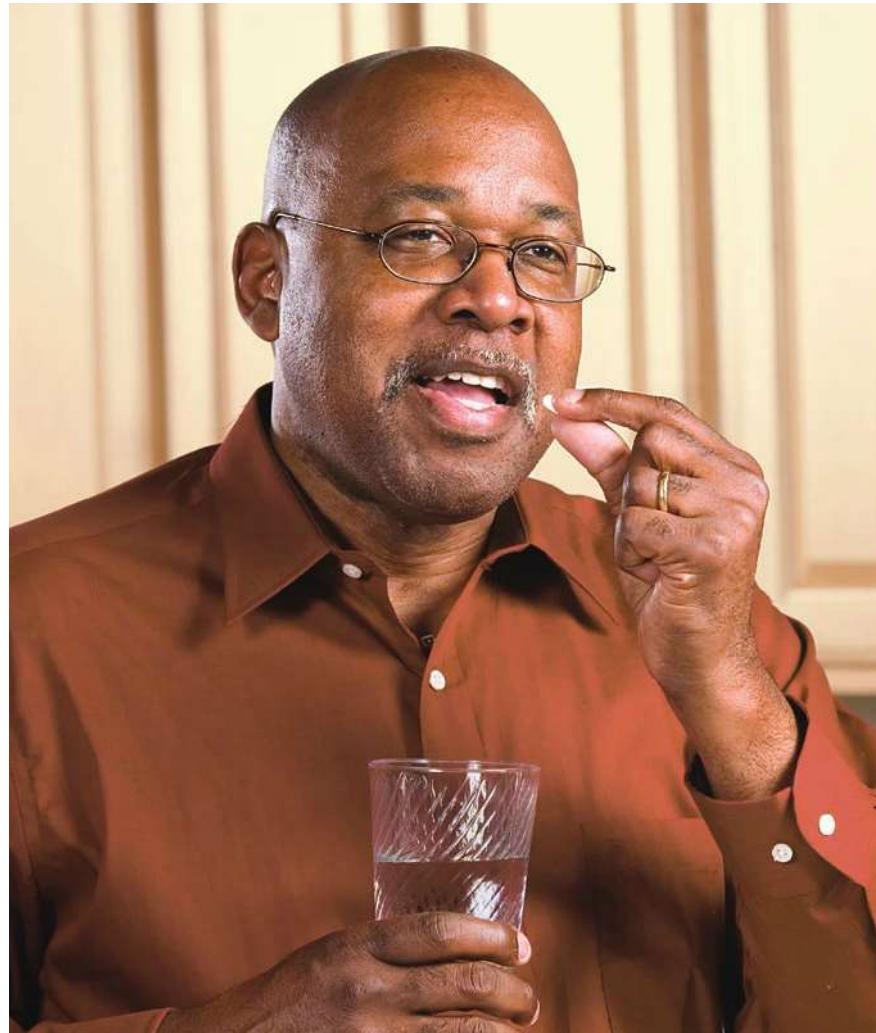
Taking daily medications may seem like a big step. But medications work best when you take them as prescribed. Talk to your health care provider or pharmacist if you have questions or concerns about how to take your medications.

Be Aware of Drug Interactions

Vitamins, herbal supplements, and some prescription and over-the-counter drugs can interfere with other prescribed medications. Be sure to tell your health care provider about all the medications you're taking. This includes remedies for headaches, allergies, colds, and even constipation. Ask your health care provider or pharmacist if there are any medications you need to avoid. Always read the warning labels and directions on everything you take. Show your medication list to the pharmacist every time you get a new medication or if you change pharmacies.

Stick to a Routine

Taking glucose-lowering medications as directed by your health care provider will help control your blood glucose. Like a meal routine, a medication routine can help you stay in your target range. Use a daily schedule to keep you on track. If you are having trouble, ask a family member or friend to help. And be sure to ask your health care provider or pharmacist what to do if you miss a dose.



Tips for Taking Medications

The tips below can help you stick with your medication routine.

- Don't change your dosage or stop taking any of your medications, even if you are feeling better! Always talk to your health care provider first.
- Refill your prescriptions before they run out. Check the brand and dosage to make sure they are correct.
- Prepare a small travel kit (see page 59) so you can take your medications with you everywhere you go.
- Call your health care provider right away if you notice any side effects. But don't stop taking your medications unless told to do so.
- Ask family or friends for help if you are having trouble remembering to take your medications.
- Make filling out your daily schedule part of your routine. Ask a family member to help you stay organized.



Notes for Family and Friends:

Starting to take medication for diabetes can be a big step. Your family member with diabetes might feel sad or angry about having to take medication. You can make this change easier by helping with the tips above.

Adjusting to a Medication Routine

Taking medications every day may require some changes to your lifestyle. But change doesn't always happen right away. This page has tips that can help you adjust to taking medication. These tips can help you manage a smoother transition to your medication routine.

Making Change Work for You

Everyone handles change a little differently. The following tips can help if you are having trouble adjusting to taking diabetes medications.

- **Prepare yourself for slow, steady progress.** Taking medication won't cure diabetes. Change doesn't happen overnight, but small changes add up. You may not see the benefits of treatment right away. Contact your health care provider if your medications aren't working or if you're having side effects.
- **Establish a daily routine.** Taking your medications in the same way and at the same time every day is crucial. When your daily routine is disrupted, it's easy to forget. To make your medication routine work for you, plan ahead. And don't get discouraged if you slip up a few times. You'll get better at sticking with your routine with daily practice.
- **Ask for support.** Taking medications for diabetes can have a big impact on your life. Tell the people close to you how they can help you stay on track. You might want to join a diabetes support group. There, you can talk with people who have many of the same concerns, fears, and goals.
- **Acknowledge new emotions.** It's common to resist or feel angry or scared about having to take medications. You're not alone. Share your feelings with your health care team and people close to you. Acknowledging new emotions is the first step toward accepting them.



Congratulations!

You've just finished this chapter. Now click on the "Take a Quiz" button to find out how much you have learned.



Take a Quiz

Chapter 6

Maintaining Your Overall Health



Living well with a chronic condition means taking care of your whole body. In this section, you will learn:

- ✓ How to help maintain your emotional health
- ✓ How to help maintain your physical health
- ✓ How to manage changes in your daily routine, such as sick days and travel

Your Emotional Health

Managing your emotional health is just as important as managing your physical health. You can't change the fact that you have **diabetes**. But you can choose to make your emotional health a priority. Think about ways you can take care of your whole self, not just your diabetes. The tips on these pages can help.

Dealing With Stress

Everyone feels stressed at times. But for people with diabetes, managing stress is even more important. This is because stress can increase or decrease **blood glucose**. So, think about what causes stressful feelings. Then, find ways to limit or avoid stressful situations. To combat stress, try:

- **Physical activity**, a natural stress reliever.
- **Making time to do things you enjoy**, such as hobbies or spending time with family and friends.
- **Talking to a counselor or a close friend**.



Avoiding Burnout

Living with a **chronic** condition takes focus and concentration every day. You don't get "days off" from diabetes management. This may leave you feeling tired or "burned out." Some days will be harder than others. To help fight burnout, take care of yourself as a whole person, not just a person with diabetes. See the next page for tips on avoiding burnout.

Recognizing Depression

Many people feel sad or down when they first hear that they have diabetes. Feelings like these are normal. But frequent feelings of helplessness or hopelessness are a symptom of depression. Depression is a serious problem, but it can be treated. If you feel overwhelmed, or if you are having trouble sleeping or eating, talk to your health care provider. Don't wait!

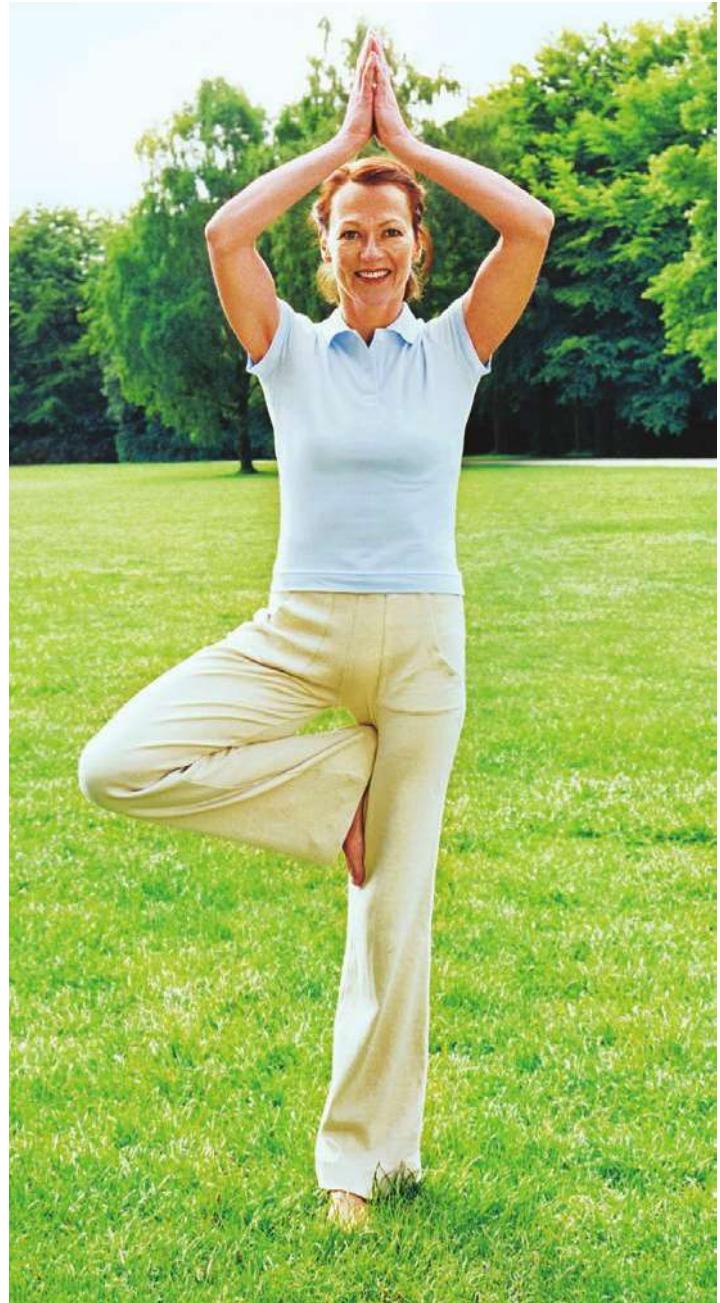
Taking Time to Relax

Thinking about your blood glucose all the time can make you feel stressed or depressed. To fight stress, take time out every day to relax your body and clear your mind. Relaxation techniques include the following:

- **Yoga, tai chi, meditation, and prayer**—all ways to relax the mind and body
- **Deep breathing** to release physical tension
- **Visualization** (picturing a relaxing scene in your mind) to recharge your mental batteries.

Setting Priorities

To keep from feeling overwhelmed, set your priorities. Focus on doing the things that are the most important. Make decisions about what needs to be done and when. Ask yourself: “Do I really need to do this today?” If the answer is no, don’t worry about it! Don’t forget to ask those close to you for help. Also, look for ways to do tasks with less effort.





Enjoying Your Life

Having diabetes means making some changes. But you can still do things you enjoy. Don't forget to have fun! Make time every week for at least one activity you like to do. Here are some suggestions:

- Watch a ball game with a friend.
- Spend time playing with kids or grandkids.
- Go to a movie.
- Read a new or favorite book.
- Have a friend over for coffee.
- Window shop with friends or family in a local mall.
- Take your dog for a long walk in a new part of town.
- Go on a day or weekend trip.
- Ask someone else to take a turn making dinner.

Your Physical Health

Have Regular Checkups

Managing your blood glucose every day helps reduce your risk of complications. You also need regular checkups with your health care provider to monitor risk factors for diabetes complications. Keep up-to-date on the tests listed below. Ask what other tests you might need based on your age, health, and gender (such as cancer screenings).

Tests and Vaccinations

The American Diabetes Association recommends having the following tests done to help reduce your risk of **complications** (especially from comorbidities):

- Blood pressure (every time you visit the health care provider)
- A1C (at first, every 3 to 6 months)
- Cholesterol and blood lipids (at the time of diagnosis, and/or at age 40 years, and periodically after that)
- Foot exam (a thorough examination once a year. Have your feet looked at during every visit.)
- Vaccinations (as directed by your health care provider)*

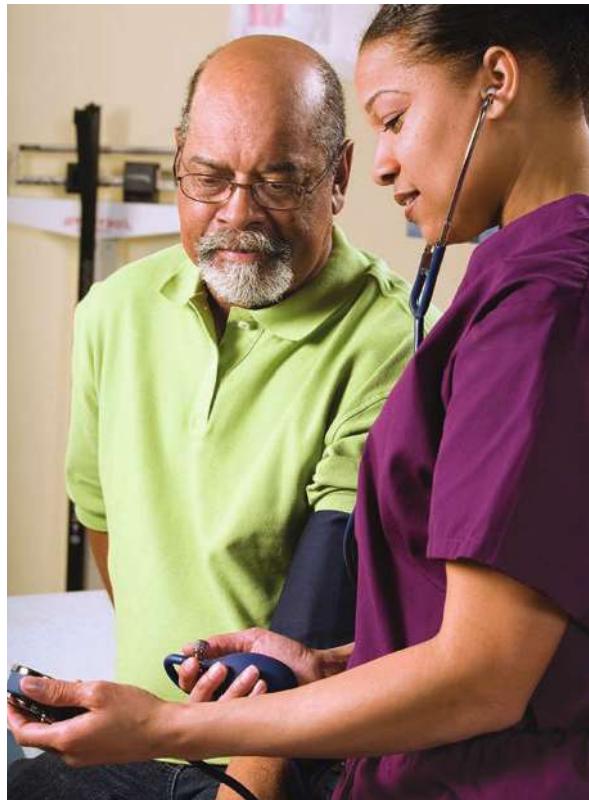
*Ask your health care provider which immunizations would help you.

If You Smoke

If you smoke, quitting smoking is one of the most important changes you can make for your health. Talk with your health care provider about ways to stop smoking. Together, you can make a plan to quit. Quitting may be hard and take some time. But, the potential health benefits are worth it.

Have a Quit Plan

Forming a “quit plan” can improve your chances of success. First, ask your health care provider about quit aids and medications, such as nicotine gum or patches. Plan when you’ll quit and what method you’ll use. Decide ahead of time how you will deal with the urge to smoke. Let your family and friends know how they can support you. Start by setting a quit date.



Chapter 6: Maintaining Your Overall Health

My Quit Smoking Contract

Set Your Goal

Now it's your turn to set a goal! If you're ready to quit smoking for good, make this your goal. Otherwise, you can start with a smaller change, such as limiting the amount you smoke each day, or in any case, your goal should move you closer to the big goal of quitting. List the specific goal you'd like to achieve:

Prepare to Act

Once you've decided to make a change, it's best to set a start date. Choose one that's coming up soon. You don't have to quit right away. Then think about tell people about your goal. That way, those close to you can support your new efforts. Also, be clear that meeting your goal will take time, attention, and support.

I will take action toward my goal starting on:

I picked this day because:

I will tell these people about the change I'm making and suggest how they can support me:

Here are a few things I will do to make quitting smoking a priority in my life:

This form is for personal use only. It is not intended for medical advice or treatment. If you are experiencing symptoms of a medical emergency, call 911 or go to the nearest emergency room. © 2012 American Diabetes Association. All rights reserved.



Print out this helpful sheet and write down your goals

Foot Care

Over time, diabetes can affect **nerves** and **blood vessels** that supply the legs and feet. This means you may not be able to feel if you have a cut or infection. Wounds on your feet may be slow to heal, and may infect easily. Because of this, you need to pay close attention to your feet. Check them daily. Ask a family member for help if you have trouble seeing your feet, especially the bottoms. If you have problems with your feet, you should have your feet examined every time you see your health care provider.



PLAY VIDEO
Foot Care

Preventing Foot Problems

Here's what you can do to help prevent serious health problems with your feet:

- Inspect your feet every day for cuts, cracks, sores, redness, or swelling. Watch for cuts and scrapes that are slow to heal, itch, feel warm, ooze fluid, or smell bad. If you notice any of these problems, contact your health care provider right away. He or she may refer you to a **podiatrist** (a specialist in foot health).
- Keep your feet clean and protect them from injury. Wash your feet in warm (not hot) water and dry thoroughly, especially between toes.
- Don't soak your feet.
- Do not go barefoot, and always wear clean socks and comfortable shoes that protect your feet.
- Do not trim any corns or calluses. Talk to your health care provider if you need help cutting and filing your toenails safely.
- Look for color changes in your feet (redness with streaks can signal a severe infection).
- The American Diabetes Association recommends that you have a thorough foot exam at least once a year. If you have problems with your feet, such as loss of feeling, foot deformities, or a history of foot ulcers, you should have your feet examined at every office visit.

Eye Care

Diabetes can lead to **retinopathy**. This is a condition caused by changes in the retina, the part of the eye that senses light. If not treated, retinopathy can lead to blindness. To help monitor your eyes for changes (such as changes to the retina), see an eye care specialist (ophthalmologist or optometrist) at least once a year. Do this even if your eyes feel fine and you aren't having trouble seeing. Call the health care provider if you notice any of the following:

- Any new dark spots in your vision
- Poor vision in dim light
- Eye pain or pressure

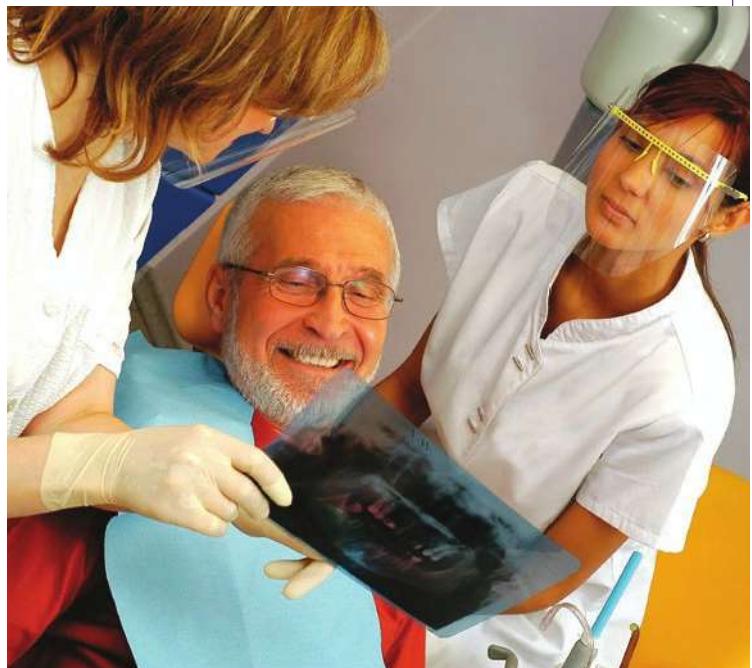


PLAY VIDEO
Eye Disease

Gum Care

People with diabetes are at risk of **periodontal (gum) disease**. This is an infection that destroys gums and the bones that hold the teeth. The infection can also enter the bloodstream, affecting the heart and other organs. To help prevent gum disease, brush your teeth at least twice a day. Don't forget to floss! And see a dentist at least twice a year. Be sure to tell anyone who works on your teeth that you have diabetes. Call your dentist if you notice any of the following:

- Bleeding gums
- Red, swollen, or tender gums
- Gums that have pulled away from teeth
- Loose teeth, or permanent teeth that have shifted position



Diabetes and Intimacy

Intimacy and sexual function are an important part of life. But over time, high blood glucose can contribute to physical problems that affect intimacy, such as **erectile dysfunction (ED)**. The good news is that ED can be treated.



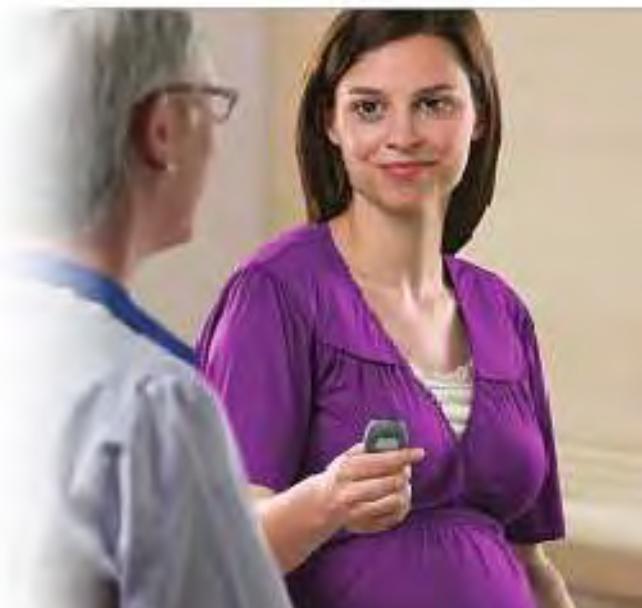
What You Can Do

If you are experiencing ED, talk to your health care provider. It may be that your diabetes management plan needs changes. Your health care provider might also prescribe a medication specifically for ED.

Vaginal Dryness

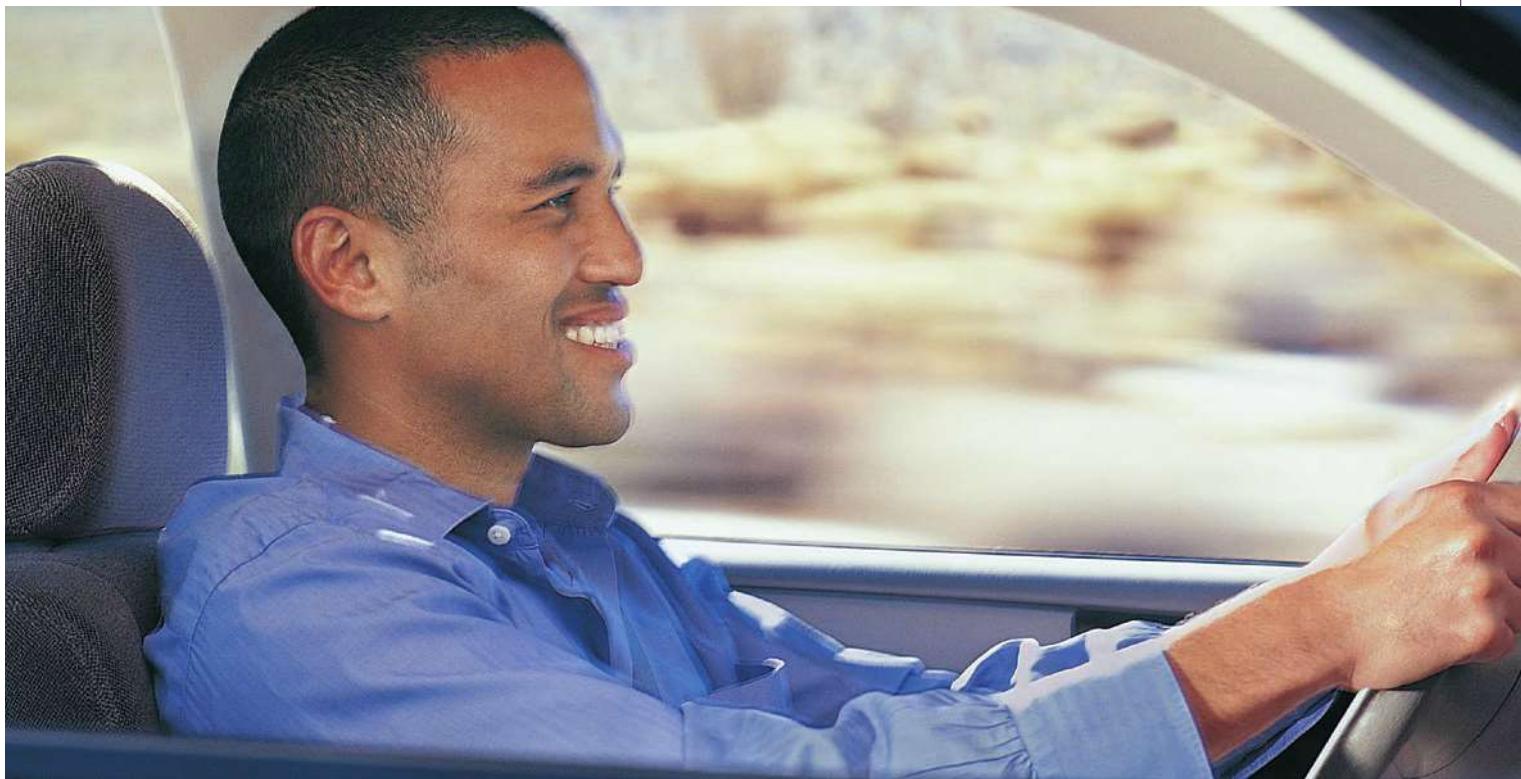
Vaginal dryness is twice as common in women with diabetes as it is in women without diabetes and is one of the main reasons women with diabetes have discomfort during sex.

It's also a result of aging and is very common among women who are menopausal or postmenopausal. In the cases of vaginal dryness resulting from menopause, a lack of estrogen can be the cause of dryness, and problems may be treated with medications prescribed by your health care provider. Better lubrication may be one solution. However, researchers don't understand exactly why women's bodies lose the ability to self-lubricate when menopause isn't the cause. Each woman's individual medical situation needs to be carefully discussed with her health care provider to make the best decision for her.



When You're on the Road

Changes in your normal routine might make it harder to follow your meal plan and medication schedule. But with a little planning, you can manage diabetes anywhere you go. A diabetes "tool kit" can help you stay organized. See page 59 for a list of supplies to include.



When You're Driving

Medications that can cause low blood glucose may affect driving safety. Always check your blood glucose before you get started. If it's low, eat or drink a snack to raise your blood glucose to above 70 mg/dL. If you feel symptoms of low blood glucose while driving, pull over so you can take action. Keep your diabetes supplies where you can reach them, not in the back seat, glove compartment, or trunk. Store medications, especially **insulin**, out of direct heat, such as sunlight. In case of emergency, always carry identification that says you have diabetes.

When You're Traveling

About 1 month before your trip, ask your health care provider if you should have a checkup to make sure your diabetes is under control. Go over your schedule and talk about the medicines you take. Get any needed vaccines at least 1 month before your trip. Be prepared to manage your blood glucose everywhere you go. If you are flying, check with the airline for guidelines for traveling with supplies and medication, or contact the Transportation Security Administration (TSA). Carry your travel kit, with your supplies clearly labeled. Keep it with you at all times, not inside checked baggage! Make sure you have identification with you that says you have diabetes. Remember to drink plenty of water to stay hydrated. Check your blood glucose often. And ask your diabetes team for advice if you are traveling across time zones.

When You're Sick

Having the flu, or even a cold, can make it hard to keep your blood glucose in your **target range**. You may not feel well enough to be active or eat regular food. Your diabetes health care team can help you develop an action plan for sick days. Follow all instructions from your health care provider closely.

If Your Blood Glucose Changes

Your blood glucose can rise quickly when you are sick. High blood glucose may also be a sign of infection. So it's important to check your blood glucose often. Try to stick to your meal plan. If you have trouble eating solid foods, try soup, applesauce, or yogurt. And be sure to drink plenty of water and other sugar-free fluids to stay hydrated.



If You Can't Eat

Your body needs **carbohydrates** in order to function. If you can't eat at all, you will need to drink liquids with sugar or carbohydrates. This includes fruit juice, regular soda, and sports drinks. Talk to your diabetes team about the right amount of liquid carbohydrates. This will help keep your blood glucose from going too high or too low. Continue to drink water to stay hydrated.

Adjusting Your Insulin Dosage

Even if you can't eat, don't stop taking **insulin** when you are sick. If your blood glucose is high, you may need to adjust your dosage. If you adjust your insulin dosage, be sure to check your blood glucose often. This is to make sure your blood glucose doesn't go too low. If your blood glucose falls below 70, take action! Eat or drink 15 grams of a fast-acting carbohydrate, such as glucose tablets or juice. Follow the directions on page 21 for treating low blood glucose.



Ask for Help!

When you're sick, try to get plenty of rest. Only do as much as you comfortably can. You may need to ask family or friends for help with daily tasks. This may include cooking and cleaning, running errands, or picking up medications if you're almost out of them. Those close to you should learn to recognize the signs of high and low blood glucose. Make sure family and friends know how to treat high and/or low blood glucose if needed.

When to Call the Health Care Provider

Call the health care provider right away if:

- You can't keep liquids down for more than 4 hours.
- You have vomiting or diarrhea for more than 6 hours.
- Your blood glucose stays over 240 mg/dL or under 70 mg/dL, even though you have taken your medication as directed in your sick-day plan.
- You have not eaten normally for more than 24 hours.
- You have a fever of 100.4°F (38°C) or higher.
- You have trouble breathing.
- You can't stay awake or think clearly.
- Your chest hurts.
- You aren't certain what to do to take care of yourself.

Notes for Family and Friends

When someone you love has diabetes, it can mean big changes in your life. It's likely that you will be called on as a helper, caregiver, or source of emotional support. Diabetes can be stressful for the whole family. Remember, taking care of yourself is just as important as taking care of your loved one.



To Help Your Loved One

It may be hard to watch someone you love cope with a chronic condition every day. You can help by:

- Learning as much as you can about diabetes. This will help you understand why your family member is making so many changes.
- Learning the signs of high and low blood glucose and how to treat them. Know when to call the health care provider in an emergency.
- Learning to be patient. At first, diabetes management can be confusing or frustrating. Ask how you can be most helpful.

To Help Yourself

Caring for someone else can take an emotional toll on you. Don't forget to make time to focus on yourself. This is not selfish! Your emotional health is important. Some of these suggestions may help:

- Understand that some things are out of your control. You can be supportive, but you can't manage your family member's condition for them.
- Take time to relax. See page 49 for techniques that you can use.
- Ask for and accept help from others when you need to take breaks. Don't feel guilty—we all need time to ourselves.
- Be aware of how you react to stress. If you become easily upset, stop for a moment. Take deep breaths, count to 10, or go for a walk to calm down.
- Look for support groups for caregivers. Some of the resources listed on page 62 may help.

Congratulations!

You've just finished this chapter. Now click on the "Take a Quiz" button to find out how much you have learned.



Take a Quiz

My Diabetes Tool Kit

Keep track of your blood glucose supplies and medications by creating a diabetes kit. A small makeup or travel bag makes an ideal "diabetes tool kit." Include the supplies shown below, as needed. And don't forget to include any other medications you take for diabetes-related conditions.



Don't forget any other medications you take!

In Case of Disaster

Be prepared for an emergency. Keep an insulated, waterproof diabetes disaster kit ready. Include all the same items as in your diabetes tool kit. A disaster kit should also contain prescription numbers, medication lists, and photocopies of recent lab results. Be sure to update this kit at least twice a year.

My Diabetes Tool Kit

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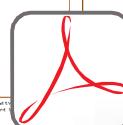
1 Log book	2 Lancet	3 Fast-acting carbohydrate	4 Test strips	5 ID bracelet (wear daily)	6 Syringe	7 Insulin pen	8 Diabetes medications	9 Meter	10 ID card
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Don't forget any other medications you take!

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Print out this helpful sheet as a reminder.

Glossary of Terms

A1C: A test to measure glucose buildup in the blood over the previous 2 to 3 months.

Artery: A blood vessel that carries oxygenated blood from the heart to the rest of the body.

Blood glucose: A type of sugar present in the blood.

Blood glucose meter: A device that tests the amount of glucose in the blood.

Blood pressure: The force created by blood flow as it presses against blood vessel walls.

Blood vessels: Tubes that carry blood throughout all parts of the body.

Carb: 15 grams of carbohydrates; equal to one carbohydrate serving.

Carbohydrate: A nutrient in food that is broken down into glucose during digestion.

Cardiovascular: Pertaining to the heart and blood vessels.

Cholesterol: A waxy, fat-like substance used by the body to build cell walls. If too much is present, it can build up and block arteries.

Chronic: Lifelong or ongoing. A chronic condition, such as diabetes, can be managed with treatment but not cured.

Complications: Serious health problems that develop over time due to high blood glucose.

Diabetes: A condition in which the body cannot produce insulin and/or use it properly.

Diabetes educator: An expert in teaching people how to manage diabetes.

Digestive system: The body's system (also known as the digestive tract) that breaks down food and absorbs it. The digestive system includes the mouth, esophagus, stomach, small intestine, large intestine (colon), rectum, and anus.

Endocrinologist: A doctor who specializes in how hormones work in the body.

Erectile dysfunction (ED): A condition in which a man is unable to obtain or maintain an erection.

Estimated average glucose (eAG): A number value assigned to A1C test results.

Fast-acting carbohydrate: A type of carbohydrate (including fruits, sugar, honey, or glucose tablets) that raise blood glucose quickly.

Glucagon: A hormone that quickly raises blood glucose levels.

Glucose: A simple form of sugar that is used to fuel the body's cells.

HDL: High-density lipoprotein, the "good" type of cholesterol.

Heart disease: A condition that affects the heart's ability to function.

High blood pressure (hypertension): Blood pressure that is higher than the normal range.

Hormone: A chemical released by special cells that tells other cells what to do.

Hyperglycemia: A condition in which there is too much glucose in the blood.

Hypoglycemia: A condition in which there is not enough glucose in the blood.

Injection (shot): Using a needle and syringe

to put liquid medications into the body.

Insulin: A hormone produced by the pancreas that enables glucose to enter most cells.

Insulin resistance: A condition in which most cells do not respond properly to insulin.

LDL: Low-density lipoprotein, the “bad” type of cholesterol.

Lancet: A device that uses a tiny needle to prick the skin for a drop of blood.

Lipids: Fatlike substances in the blood.

Liver: An organ that stores and releases glucose when needed.

Microalbumin: A test that checks for small amounts of protein in the urine.

Nephropathy: Damage to the kidneys.

Neuropathy: Damage to the nerves.

Nerves: Fibers that convey signals to and from the brain.

Pancreas: An organ that makes insulin and releases it into the bloodstream.

Pedometer: A device worn on the body that counts how many steps are taken.

Periodontal disease: Infection of gum tissue. Also called gum disease.

Peripheral arterial disease (PAD): Damage to the arteries that supply blood to the legs and feet.

Plaque: Fatty deposits that build up inside arteries and reduce blood flow.

Podiatrist: A doctor who specializes in foot care.

Registered dietitian: An expert in food and nutrition.

Retinopathy: An eye disease that leads to damage of blood vessels in the eyes.

Saturated fat: A type of fat that comes from animals.

Stroke: A condition in which blood flow to the brain is cut off due to blockage or a torn blood vessel.

Syringe: A device that uses a small needle to inject liquid medications into the body.

Target range: The level of blood glucose a patient is told to aim for as often as possible.

Trans fat: Fat produced when liquid oil is made into a solid fat.

Triglycerides: Building blocks of fats.

Type 1 diabetes: A chronic condition in which the pancreas cannot produce insulin.

Type 2 diabetes: A chronic condition in which most cells are resistant to insulin and/or the pancreas may not produce enough insulin.

Vaginal dryness: Reduced amount of moisture in the vagina.

Resources

The following resources can help you and the people close to you learn more about living a healthier life with diabetes.

American Diabetes Association

www.diabetes.org

American Heart Association

www.heart.org

Academy of Nutrition and Dietetics

www.eatright.org

Centers for Disease Control and Prevention

www.cdc.gov/diabetes

National Diabetes Education Program

www.ndep.nih.gov

National Diabetes Information Clearinghouse

www.diabetes.niddk.nih.gov

USDA MyPlate

www.choosemyplate.gov

smokefree.gov

American Lung Association

www.lung.org

<http://betobaccofree.hhs.gov/>

CDC

www.cdc.gov/tobacco/quit_smoking/

America Cancer Society

www.cancer.org



And now, please tell us what you think about this workbook!

We need your suggestions to make sure that this has everything you need to know to manage your diabetes in the best way possible. Go to our **online survey** and answer just a few questions. It will only take a few minutes of your time.

Thank you for your help!



Congratulations!

You are well on your way to making the positive lifestyle changes so necessary for helping to manage diabetes.

Think about all that you've learned. Congratulate yourself on your progress. And keep practicing the tips from this Go-To-Guide.

