

# Prediabetes and diabetes

## What is the difference between prediabetes and diabetes?

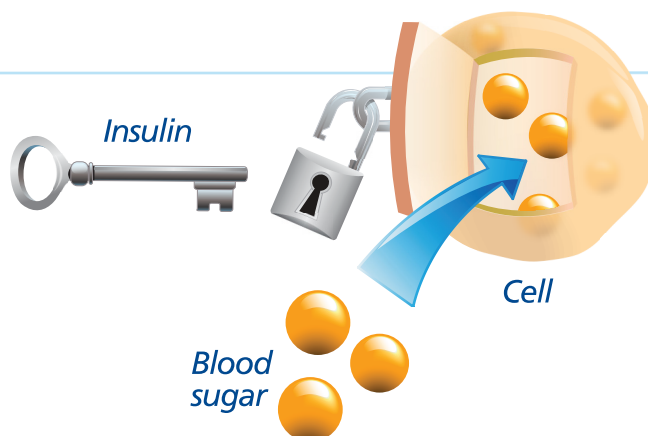
The difference between prediabetes and diabetes is in how high the blood sugar levels are. Prediabetes is when your blood sugar (or glucose) levels are higher than normal but not high enough to be diagnosed as type 2 diabetes. Look at the table on page 2 to see the levels. Did you know that about 79 million American adults age 20 and older have prediabetes?

## What's going on in your body?

A condition called insulin resistance increases the risk of getting both prediabetes and type 2 diabetes. Insulin is a hormone that is made by the pancreas, a large gland behind the stomach. Insulin helps sugar from food move from your blood into your body's cells. Your cells need sugar for energy. Sugar from food can be from sweet foods and drinks, like candy, cakes, cookies, pies, and soda, or from carbohydrates like fruit, bread, rice, pasta, and milk that turn into sugar.

When you have insulin resistance, your body produces insulin but does not use it effectively. So sugar builds up in the blood, which can lead to prediabetes or type 2 diabetes. Most people with insulin resistance aren't aware that they have it for many years, until it turns into type 2 diabetes. But the good news is that if people find out early that they have insulin resistance, they may be able to delay progression to type 2 diabetes. See the box on page 2 to find out how.

Insulin works like a key, unlocking the doors on the cells in your body to let blood sugar in. Once the cell doors open, sugar is able to move from the blood into the cells, where it belongs. Once inside the cells, sugar provides energy to the body.



## Who is at risk?

Here are some of the risk factors for prediabetes and diabetes:

- Being overweight
- Being age 45 years or older
- Having a family history of diabetes
- Having a history of gestational diabetes or of giving birth to a baby weighing more than 9 pounds
- Belonging to an ethnic group at high risk for diabetes, such as Native American, African American, Hispanic, or Asian



It is important to discuss your risk factors with your doctor. If you think you may be at risk for prediabetes, see your doctor to be tested.

# Prediabetes and diabetes

## How is prediabetes diagnosed?

You may have prediabetes without having any symptoms. Prediabetes is found with one of the following tests:

■ **Fasting plasma glucose (FPG) test**—Measures blood sugar when you haven't eaten anything for at least 8 hours



■ **Glucose tolerance test (GTT)**—Measures blood sugar after you haven't eaten anything for at least 8 hours and 2 hours after you drink a sugary drink provided by a doctor or laboratory

■ **A1C**—Measures your average estimated blood sugar over the past 3 months

Your doctor will look for these values to diagnose prediabetes and diabetes:

	Prediabetes	Diabetes
FPG	100–125 mg/dL	126 mg/dL or higher
GTT	140–199 mg/dL	200 mg/dL or higher
A1C	5.7%–6.4%	6.5% or higher

Adapted from the American Diabetes Association. Standards of medical care in diabetes—2016. *Diabetes Care*. 2016;39(suppl 1):S1-S112.

## How can you lower your risk of developing type 2 diabetes if you have prediabetes?

Losing weight is the best way to avoid developing type 2 diabetes if you are overweight. Talk with your diabetes care team about what your target weight should be.

There are no medicines approved by the FDA to treat prediabetes. If you have prediabetes, your blood sugar should be checked for type 2 diabetes yearly. According to the American Diabetes Association (ADA), if your blood sugar levels are normal, you should have them checked every 3 years, or more often if your doctor recommends it.

Prediabetes does not automatically turn into type 2 diabetes. You can take steps to lower your risk.

The American Diabetes Association says that you can lower your risk for type 2 diabetes by:

- Losing just 7% of your body weight (or 15 pounds if you weigh 200 pounds)
- Doing moderate physical activity (such as brisk walking) for 30 minutes a day, 5 days a week



For more information, visit [Cornerstones4Care.com](http://Cornerstones4Care.com)

Novo Nordisk Inc. grants permission to reproduce this piece for nonprofit educational purposes only on condition that the piece is maintained in its original format and that the copyright notice is displayed. Novo Nordisk Inc. reserves the right to revoke this permission at any time.

Cornerstones4Care® is a registered trademark of Novo Nordisk A/S.

Novo Nordisk is a registered trademark of Novo Nordisk A/S.

© 2016 Novo Nordisk Printed in the U.S.A. USA16PCT01521 May 2016 [Cornerstones4Care.com](http://Cornerstones4Care.com)





**Cornerstones4Care®**  
Your diabetes, your way.

## Support and diabetes management tools built around you.

Enroll today to get **FREE**, personalized diabetes support with **Cornerstones4Care®**.



### Diabetes Health Coach

An online program that builds a customized action plan around your needs to help you learn healthy habits



### Meal Planning Tools

Create tasty, diabetes-friendly meals



### Interactive Trackers

Record A1C, weight, and blood sugar numbers

### Enrolling is easy. Just complete this form.

All fields with asterisks (\*) are **REQUIRED**.

\*  I have diabetes or  I care for someone who has diabetes

\* First name \_\_\_\_\_ \* Last name \_\_\_\_\_ MI \_\_\_\_\_

\* Address 1 \_\_\_\_\_

Address 2 \_\_\_\_\_

\* City \_\_\_\_\_ \* State \_\_\_\_\_

\* ZIP \_\_\_\_\_ \* Email \_\_\_\_\_

\* Birth date mm/dd/yyyy \_\_\_\_ / \_\_\_\_ / \_\_\_\_

\* What type of diabetes do you or the person you care for have? (Check one)

Type 2  Type 1  Don't know

\* What type of diabetes medicine has been prescribed? (Check all that apply)

Insulin  GLP-1 medicine  
 None  Other  
 Diabetes pills (also called oral antidiabetic drugs, or OADs)

\* If you checked "Insulin," "GLP-1 medicine," or "Other," please fill in the following for each:

Product 1: \_\_\_\_\_

How long has this product been taken?

Prescribed but not taken  7-12 months  
 0-3 months  1-3 years  
 4-6 months  3 or more years

Product 2: \_\_\_\_\_

How long has this product been taken?

Prescribed but not taken  7-12 months  
 0-3 months  1-3 years  
 4-6 months  3 or more years

### Review and complete below.

\* Phone number:

( \_\_\_\_\_ ) \_\_\_\_\_ - \_\_\_\_\_

\* Cell phone number:

( \_\_\_\_\_ ) \_\_\_\_\_ - \_\_\_\_\_

Novo Nordisk Inc. ("Novo Nordisk") understands protecting your personal and health information is very important. We do not share any personally identifiable information you give us with third parties for their own marketing use.

I understand from time to time, Novo Nordisk's Privacy Policy may change, and for the most recent version of the Privacy Policy, please visit [www.C4CPrivacy.com](http://www.C4CPrivacy.com).

By signing and dating below, I consent that the information I am providing may be used by Novo Nordisk, its affiliates or vendors to keep me informed about products, patient support services, special offers, or other opportunities that may be of interest to me via mail and email. Novo Nordisk may also combine the information I provide with information about me from third parties to better match these offers with my interests. These materials may contain information that market or advertise Novo Nordisk products, goods, or services.

Yes, I'd like to be contacted by Novo Nordisk via phone calls and text messages at the phone numbers I have provided.

By checking this box, and signing and dating below, I authorize Novo Nordisk to use auto-dialers, prerecorded messages, and artificial voice messages to contact me. I understand that these calls and text messages may market or advertise Novo Nordisk products, goods, or services. I understand that I am not required to consent to being contacted by phone or text message as a condition of any purchase of goods or services.

I may opt out at any time by clicking the unsubscribe link within any email I receive, by calling 1.877.744.2579, or by sending a letter with my request to Novo Nordisk Inc., 800 Scudders Mill Road, Plainsboro, New Jersey 08536.

By providing my information to Novo Nordisk and signing and dating below, I certify I am at least eighteen (18) years of age and agree to the terms above.

\* Signature (required) \_\_\_\_\_

\* Date (required) \_\_\_\_\_  
mm/dd/yyyy

### 3 easy ways to enroll:

1. Fax the completed form to 1-866-549-2016
2. Email the completed form to [C4Csignup@hartehanks.com](mailto:C4Csignup@hartehanks.com)
3. Call 1-888-825-1518 and follow the voice prompts

