Diabetes is a disease that affects the way your body uses carbohydrate, fat, and protein.

When you eat, carbohydrate from food is broken down into a sugar, called glucose. After digestion, glucose is released into the blood to be transported to the rest of the body. When glucose hits the bloodstream, a hormone, called insulin, is released from your pancreas. Insulin acts as a key to open cell membranes so that glucose can enter and be used by cells for energy.

In diabetes, the body cannot make insulin or becomes less sensitive to it. Without insulin, glucose does not enter body cells and remains in the bloodstream. Over time, glucose builds up in the bloodstream.

Too much glucose in the bloodstream can cause long term and immediate problems for the body. At high levels, glucose is very damaging to eyes, nerves, arteries, and the kidneys. Also, when blood glucose is too high, the body rids itself of some glucose by sending it to the kidneys where glucose is put into your urine. This process places an extra strain on the kidneys, and can cause permanent damage.

There are three types of diabetes: Type 1, Type 2, and Gestational diabetes.

Type 1 (Insulin-dependent) occurs when the body is unable to make insulin. The treatment for type 1 diabetes includes diet, exercise, and insulin replacement in the form of a shot or pump. Five to 10% of all known cases of diabetes are type 1. This type of diabetes usually occurs early in life (before age 30), but can affect all ages.

Type 2 (Non-insulin dependent) develops when the body becomes less sensitive to insulin over time. To compensate, the body produces more insulin to have the same effect. After a while, the body’s ability to make insulin wears out, and the body no longer makes enough insulin. A risk factor for type 2 diabetes is being overweight. Weight loss, diet, exercise, and sometimes medications are used to treat type 2 diabetes. About 85 to 90% of all known diabetes cases are type 2. This type of diabetes becomes evident later in life (usually after age 30).

Gestational Diabetes occurs in women when hormone levels cause the body to be less sensitive to insulin during pregnancy. Often diet is used to control this form of diabetes. Gestational diabetes usually ends when the pregnancy is over, but women who have had it are at a greater risk for developing gestational diabetes in future pregnancies and diabetes later on in life.

How do you know if you have diabetes?

More than 15 million Americans have diabetes, but many do not realize it. Some people have outward signs of diabetes like tiredness, increased thirst and urination, hunger, weight loss, poor healing of wounds or cuts, blurred eyesight. Others do not have any outward signs of diabetes at all.

The only way to know if you have diabetes is to be tested for it. There are several blood tests to diagnose diabetes. Random Plasma Glucose Test: Blood sugar is tested without fasting. You have diabetes if your blood sugar is 200 or more. A fasting plasma glucose test must be done on another day to confirm diagnosis of diabetes.

Fasting Plasma Glucose Test: Blood sugar is tested after fasting for 8 hours. You have diabetes if you have 2 fasting blood sugars more than 126 that were taken on different days. Fasting levels between 110-126 are considered higher than normal and places a person at greater risk of developing diabetes.

Oral Glucose Tolerance Test: Blood sugar is tested after fasting for 8 hours. Then a liquid with 75 grams of glucose is given to you to drink. Several more blood sugar tests will be taken. You have diabetes if blood sugar is 200 or more within a two hour period after drinking the glucose liquid.

Are you at risk? Take this risk test and find out.

1. Age: □ 0-45 □ 46-64 □ 65 or over
2. Height ___________ Weight ___________
3. Parent with diabetes □ One □ Both □ None
4. Sister or brother with diabetes □ Yes □ No
5. I have high blood pressure, high cholesterol, or high triglyceride levels. □ Yes □ No
6. I have had gestational diabetes, or delivered a baby weighing more than 9 pounds. □ Yes □ No
7. I have had previous fasting blood glucose tests that were higher than 110. □ Yes □ No
8. Race: □ Caucasian □ African American □ Native American □ Hispanic □ Other
9. I get little or no exercise in a normal day. □ Yes □ No

To find out your risk, turn to the next page.
To lower the fat in your diet, begin by removing full fat milk, cheese, and ice cream. Low fat milk can be substituted for full fat milk. Choose low fat cheeses, and use low fat or fat-free mayonnaise, sour cream, salad dressing, and cream cheese.

Cut the fat. To lower the fat in your diet, begin by choosing low-fat or fat-free margarine, mayonnaise, sour cream, salad dressing, and cream cheese. If this does not appeal to you, just use less oil or other fats. Low fat cooking methods include baking, broiling, grilling, and frying with non-stick cooking spray.

Watch portion sizes. Many of us simply eat too much. Here are some tips:
*Follow the suggested amounts and serving sizes of the Food Guide Pyramid
*Pass up second helpings.
*Only eat until you do not feel hungry, not until you are too full.
*Take less food. You know about how much you usually eat. Just make or dish up less food.

Exercise. When you exercise, you not only burn calories but improve your cardiovascular system and reduce your risk of developing diabetes. Improve your cardiovascular system by getting at least 20 minutes of continuous physical activity on 3-5 days a week. If this is not possible, try breaking it up into 5 or 10 minute segments. Any increase in activity will help. The key is to be more active in your everyday life.

Scoring the Risk Test

Score test by adding up the points for each question.

1. Age: 0-45 0 points; 46-64 2 points; 65 & over 3 points

2. Weight for Height:
   Healthy 0 points; Moderate Overweight 2 points; Severe Overweight 3 points

3. Parents: None 0 points; One 1 point; Both 2 points
4. Sibling: No 0 points; Yes 2 points
5. Blood Pressure, Cholesterol, Triglycerides:
   No 0 points; Yes 2 points
6. Gestational Diabetes: No 0 points; Yes 2 points
7. Blood Glucose: No 0 points; Yes 2 points
8. Race:
   Caucasian 0 points; African America 2 points;
   Hispanic American 2 points; Pacific Islander 2 points;
   Asian American 2 points; Native American 3 points
9. Exercise: No 0 points; Yes 2 points

Totals

<table>
<thead>
<tr>
<th>Points</th>
<th>Category</th>
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<tr>
<td>0-3</td>
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<tr>
<td>4-9</td>
<td>Moderate Risk</td>
</tr>
<tr>
<td>10 &amp;</td>
<td>High Risk</td>
</tr>
</tbody>
</table>

This is to determine your risk of developing diabetes. The only way to know if you have diabetes for sure is to be tested by a doctor.