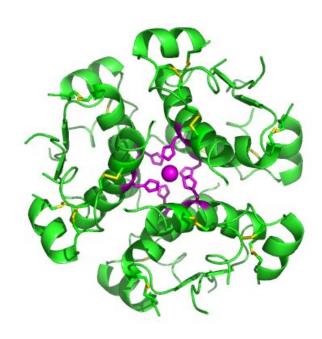


What is Type 2 Diabetes



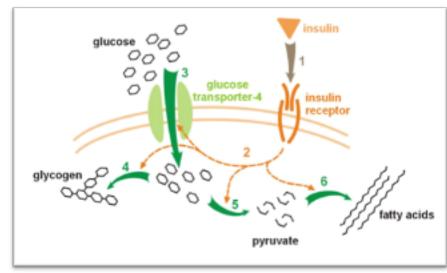
Type 2 Diabetes is a disease in which the body no longer responds to *insulin*.



https://secure.wikimedia.org/wikipedia/en/wiki/File:InsulinHexamer.jpg

Why Is Insulin Important?

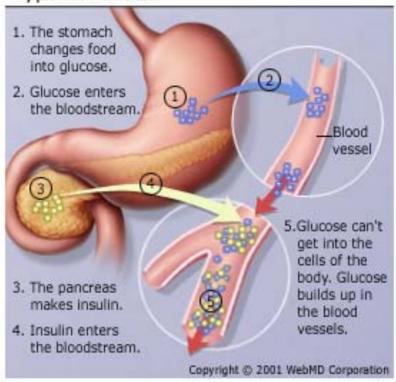
Insulin is involved in managing the amount of glucose in the blood stream and in helping the body to effectively store glucose.



http://commons.wikimedia.org/wiki/File:Insulin_glucose_metabolism_ZP.svg

How Does Type 2 Diabetes Work?

Type 2 Diabetes



http://diabetes.webmd.com/guide/understanding-diabetes-basics?page=2

In Type 2 Diabetes, the body either:

- Does not produce enough insulin; or
- •No longer recognizes insulin.

When that happens, the body can no longer efficiently regulate glucose in the blood stream.

What Happens With Type 2 Diabetes?

Symptoms

- Increased Thirst
- Increased Hunger
- Dry Mouth
- Nausea and Vomiting
- Frequent Urination
- Fatigue
- Blurred Vision
- Numbness of Hands or Feet
- Frequent Infections

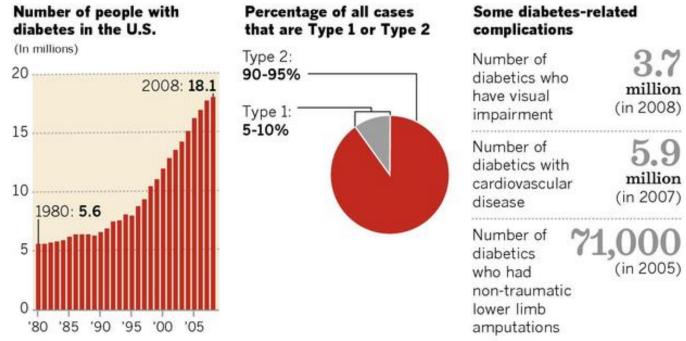
Major Problems

- Dehydration
- Diabetic Coma
- Tissue Damage, such as:
 - Hardening of arteries
 - Stroke
 - Retinopathy (vision loss)
 - Kidney Damage
 - Poor Blood Circulation and Nerve Damage

Type 2 Diabetes in the US

Type 2 diabetes in the United States

One in three adults could have diabetes by 2050, compared with today's 1 in 10, according to the Centers for Disease Control and Prevention. Type 2, the most common form of diabetes, can usually be controlled with diet, execise, weight loss and oral medication.



Note: Figures shown are for the most recent year available.

Sources: National Institute of Diabetes and Digestive and Kidney Diseases, Centers for Disease Control and Prevention Graphics reporting by TIA LAI

 $http://www.latimes.com/health/lat-b82485127z.1-20101029223751-000gs20101029,0,3776283.graphic \\ Los\ Angeles\ Times \\ Los\ Angeles$

Can Type 2 Diabetes Be Cured?

Diabetes can't be "cured," but it can be managed through:

- Balancing Sugar Intake
- Weight Loss
- Lowering Blood Pressure
- Medication
- Exercise

How Can Exercise Help Type 2 Diabetes?

- Improving your body's use of insulin.
- Burning excess body fat, helping to decrease and control weight (decreased body fat results in improved insulin sensitivity).
- Improving muscle strength.
- Increasing bone density and strength.
- Lowering blood pressure.
- Helping to protect against heart and blood vessel disease by lowering 'bad' LDL cholesterol and increasing 'good' HDL cholesterol.
- Improving blood circulation and reducing your risk of heart disease.
- Increasing energy level and enhancing work capacity.
- Reducing stress, promoting relaxation, and releasing tension and anxiety.

What Promotes Exercise In Urban Areas?



http://www.americantrails.org/resources/health/medmile06.html

Urban Green Spaces