Diabetes Prevention and Insulin Education

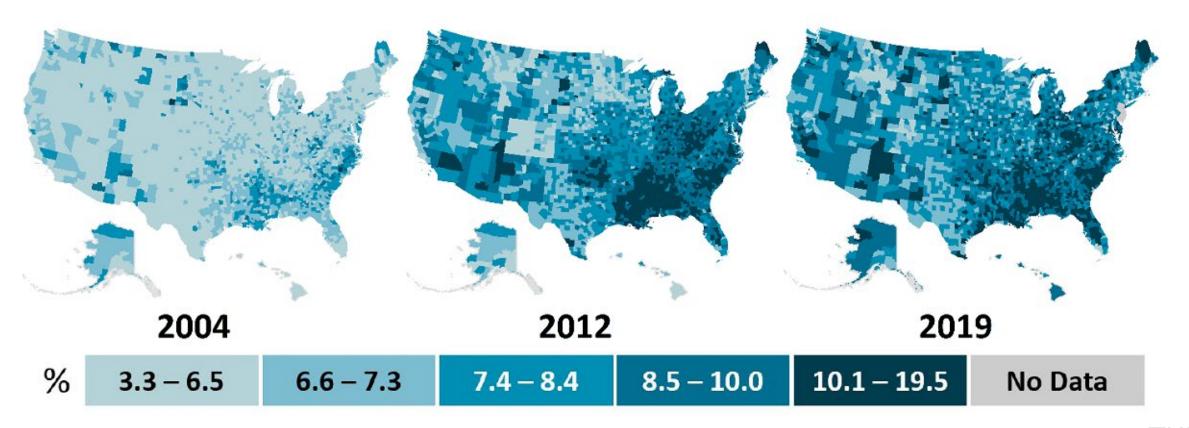
Brittany Butts May 30, 2023

A few things...

- Please enter any questions you have in the chat. We will get to as many questions as we can.
- Scan this QR code to access this presentation plus bonus information.

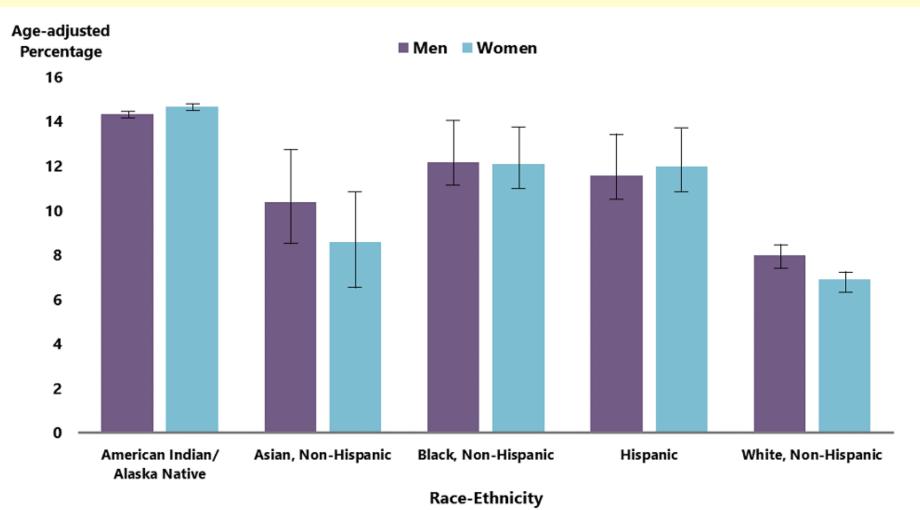


Approximately 28.7 million people are living with diabetes





Prevalence of diagnosed diabetes by race/ethnicity group and sex for adults aged 18 years or older





What is diabetes?

- Chronic disease that affects how your body uses energy (glucose)
 - Disturbances in carbohydrate, protein, and fat metabolism
 - May be due to a lack of insulin availability (type I diabetes)
 - May be due to reduction in biologic effects of insulin (type II diabetes)
- Three types:
 - Type I (5-10%)
 - Type II (90-95%)
 - Gestational
- Pre-diabetes elevated blood glucose levels but does not meet diagnostic criteria for diabetes



Risk factors – type II diabetes

- Family history
- Age
- Prediabetes
- History of gestational diabetes
- Physical inactivity

Can I prevent diabetes?

• Depending on your risk factors, there are some things you can do to reduce your risk for diabetes.

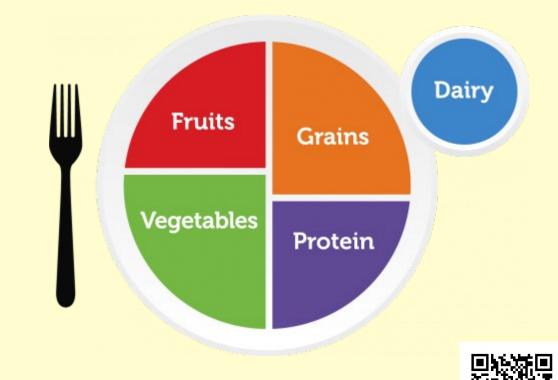


https://www.cdc.gov/diabetes/prevention/index.html



Can I prevent diabetes?

- Depending on your risk factors, there are some things you can do to reduce your risk for diabetes.
- 1. For some, weight loss can help.
- 2. Be more physically active
- 3. Eat healthy plant foods
- 4. Eat healthy fats
- 5. Make healthy choices



What is insulin?

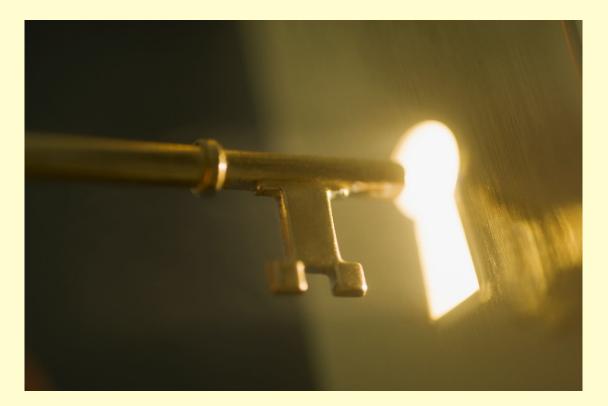
- Hormone made by your pancreas
- Insulin is required to move glucose from your blood into your cells





What is insulin?

- Hormone made by your pancreas
- Insulin is required to move glucose from your blood into your cells
 - Glucose cannot enter the cells unless





Who needs insulin?



- People who do not make insulin (type I diabetes)
- People who make insulin, but the cells no longer respond to the insulin (insulin resistance, type II diabetes)
- People who don't make enough insulin (type II diabetes)

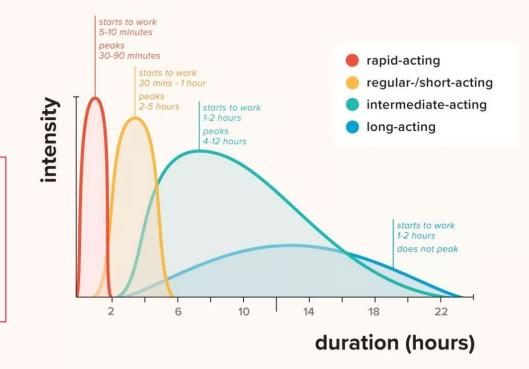


Types of insulin

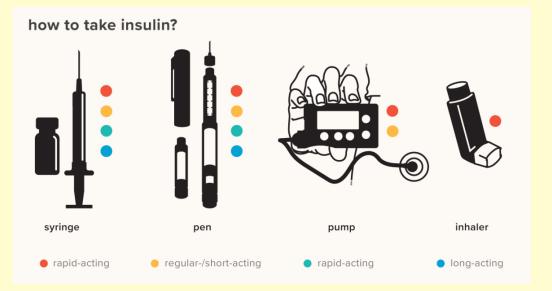
4 types:
Rapid acting
Short acting
Intermediate acting
Long acting
Manages glucose throughout

the day

types of insulin





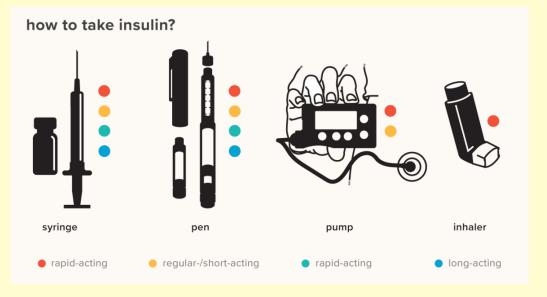


Rapid-acting insulin include:
insulin aspart (NovoLog)
insulin glulisine (Apidra)
insulin lispro (Humalog)

Regular- or short-acting products generally use <u>insulin regular</u>, including:
<u>Humulin R</u>, Humulin R U-500, Humulin R U-500 KwikPen
Novolin R, Novolin R Innolet, Novolin R PenFill
ReliOn/Humulin R
ReliOn/Novolin R

Intermediate-acting products generally use insulin isophane, including:
<u>Humulin N</u> Humulin N KwikPen, Humulin N Pen
Novolin N, Novolin N Innolet, Novolin N PenFill
ReliOn/Novolin N





Long-acting insulin products include:

<u>insulin detemir</u> (Levemir, Levemir FlexPen, Levemir FlexTouch, Levemir InnoLet, Levemir PenFill)
 insulin degludec (<u>Tresiba FlexTouch</u>)

•<u>insulin glargine</u> (Basaglar KwikPen, Lantus, Lantus OptiClik Cartridge, Lantus Solostar Pen, Toujeo Max Solostar, Toujeo SoloStar)

Combined regular- or short-acting and intermediate-acting insulin include: •blends of insulin isophane and insulin regular (Humalin 50/50, Humulin 70/30, Humulin 70/30 KwikPen, Novolin 70/30, ReliON/Novolin 70/30) •blends of insulin lispro and insulin lispro protamine (Humalog Mix 75/25, Humalog Mix 75/25 KwikPen)



Do you have to take insulin for diabetes?

- For type I diabetes yes. Definitely
- For type II diabetes, not everyone needs insulin.
 - Examples: metformin, glyburide, Farxiga®

Find more information here:



Summary

- Diabetes is a prevalent chronic disease that is increasing in the United States
- For people at-risk for diabetes, diabetes prevention through lifestyle changes may decrease risk of developing diabetes
- People living with diabetes require medications to manage glucose and metabolism
- For many, insulin is required to manage their diabetes and to prevent complications

Let's get to some Q & A

