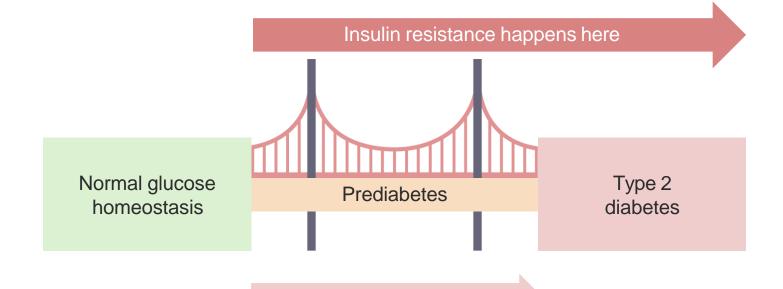
Diabetes What Is Insulin Resistance?

It's an early warning sign!

- deliging and a state





Long-term damage can occur to the body, heart, and blood vessels before diagnosis.

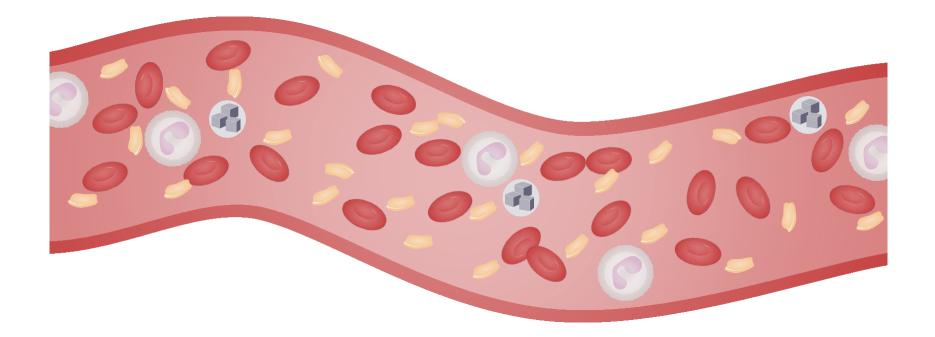
Resistance Is Futile.....

Key points:

- 1. Insulin is present even elevated.
- 2. Cells can't use the insulin to absorb glucose for energy.
- 3. Blood sugar rises, and rises.





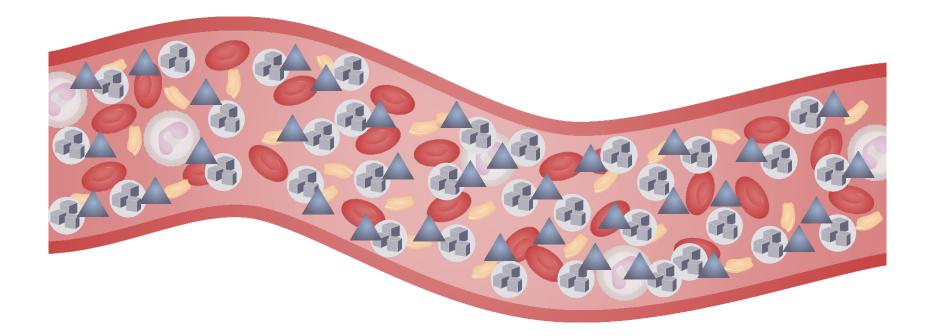




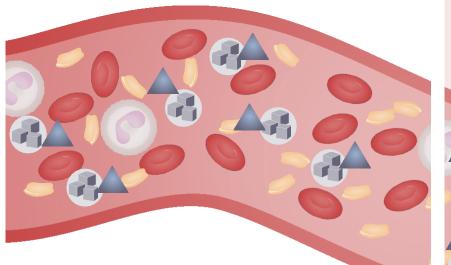
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So what's different for a client with insulin resistance?

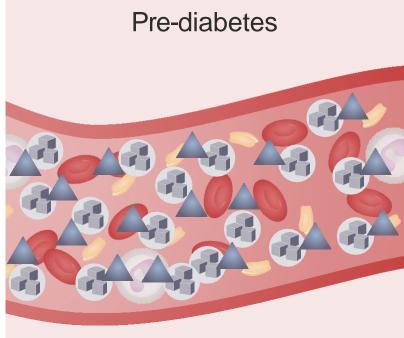




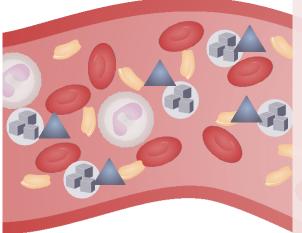
Compare Insulin Levels



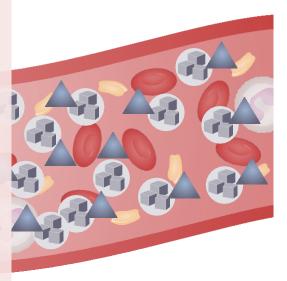
Normal



Resistance Is Futile...



- Insulin is present
 even elevated.
- 2. Cells can't use the insulin to absorb glucose for energy.
- 3. Blood sugar rises, and rises.





What do you think are the 2 main effects on the metabolism of glucose when insulin usage isn't effective?

Results of Ineffective Glucose Utilization



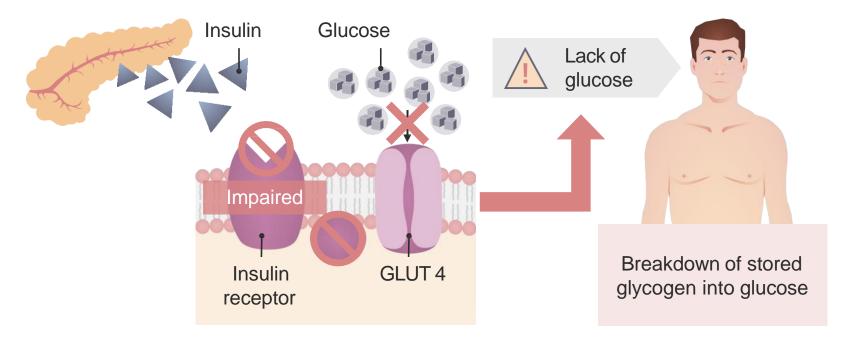
Increase in glucose production

Decrease in glucose utilization



Why Is There an Increase in Glucose Production?

The cells in your muscles, fat, and liver don't respond as well (resistant) to the normal functions of insulin.



Results of Ineffective Glucose Utilization



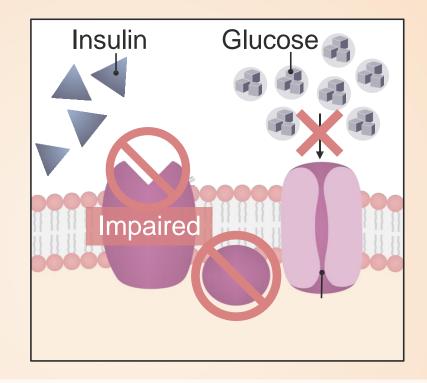
Decrease in glucose utilization

Increase in glucose production



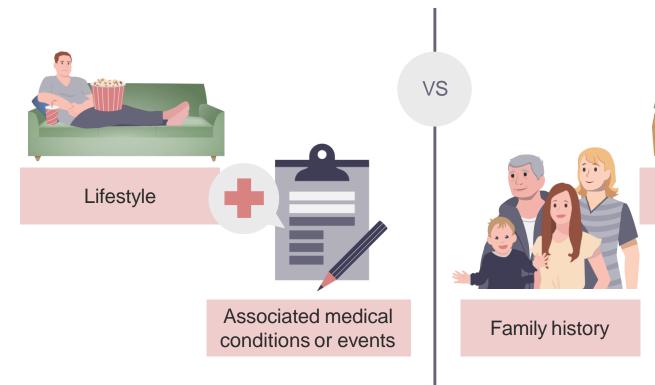
High risk of complications





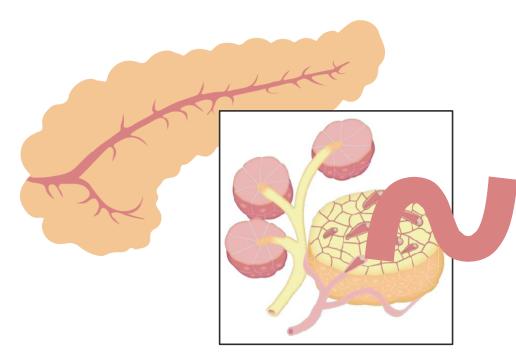
What causes insulin resistance?

Modifiable vs. Non-modifiable



Race/ethnicity

The Road to Type 2 Diabetes

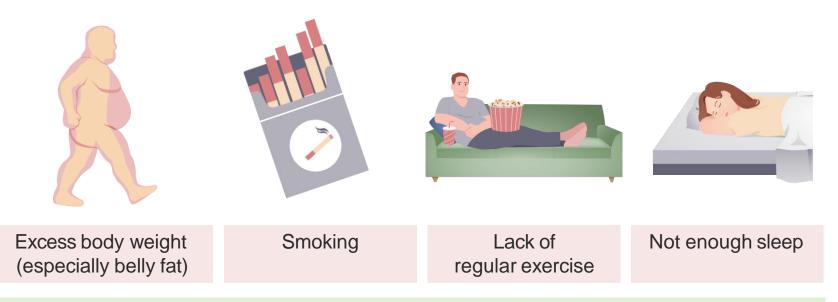


Beta cells (can secrete some insulin).

Insulin resistance is likely present.

Lifestyle choices can impact progression of disease.

We Can Help... But Do We Really?



Being empathetic and having therapeutic relationships with clients can encourage them to take small steps towards better health.

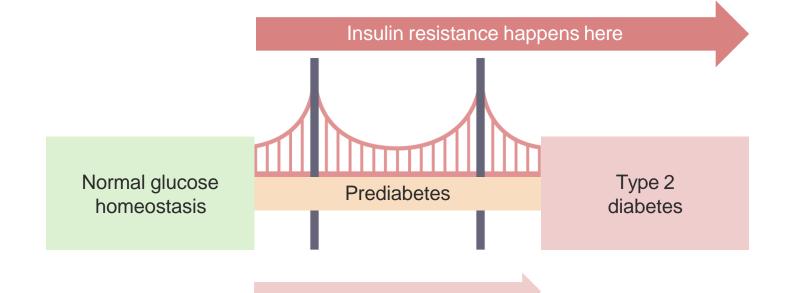
Nurses are modifiers.

•

Help Them Take The Next Step



Nurses Can Help Reduce Risk Factors



Long-term damage can occur to the body, heart, and blood vessels before diagnosis.



- Insulin resistance is present in prediabetes and is a warning sign of the development of type 2 diabetes.
- The insulin receptors are impaired in insulin resistance, so the cells do not recognize insulin and are not as effective in taking in glucose as an energy source into the cells.
- Glucose production increases, and glucose utilization decreases.
- Nurses can facilitate slowing the progression to type 2 diabetes by helping clients take the next step toward a healthier lifestyle.

