Healthy Start to Life Education for Adolescents Project Pacific Region

Insulin Resistance

Student Presentation Slides

Learning Objective 5 | Diabetes Mellitus

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Type 2

SPS

IR 1

diabetes

Insulin

SC

vring

resistance

What is insulin resistance?

Insulin resistance

SPS

IR 2

The pancreas produces insulin, but the body can not use it properly.



Glucose

Insulin

receptor

Insulin Normal cell with plenty of insulin receptors that Glucose insulin can bind to transporter so glucose can move into the cell.

SPS

IR 3

SPS

IR 4



SPS

IR 5



Insi

Glucose

Insulin

Glucose

receptor

transporter

 Insulin binds to the receptors, but no signal is sent to the glucose transporters so glucose remains in the blood.

SPS

IR 6

What happens in insulin resistance?

SPS

IR 7



Cells in your body do not respond normally to insulin.

What happens in insulin resistance?

SPS

IR 8





There is a build up of glucose in the blood.

Cells in your body do not respond normally to insulin.





The pancreas tries to keep up with the need for more insulin by producing more.

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What happens in insulin resistance?

Excess glucose builds up in the bloodstream, setting the stage for type 2 diabetes.

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SPS

IR 13

The pancreas tries to keep up with the need for more insulin by producing more.

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