

Blood glucose and diabetes

How does insulin lower blood glucose?

Blood glucose and diabetes

Which organ detects high blood glucose and releases insulin?

Blood glucose and diabetes **Higher tier**

How does glucagon raise blood glucose?

Blood glucose and diabetes **Higher tier**

When is glucagon released?

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What causes type 1 diabetes?

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How is type 1 diabetes controlled?

Blood glucose and diabetes

What causes type 2 diabetes?

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How is type 2 diabetes controlled?

The pancreas.

It makes cells take up glucose, and the liver converts glucose into glycogen for storage.

When blood glucose concentration is too low.

It acts on the liver, which changes glycogen into glucose and releases it into the blood.

Insulin injections, monitoring blood glucose, and controlling the carbohydrate in the diet.

The pancreas does not produce enough insulin.

Diet, regular exercise and losing weight.
Some people also need medication.

Body cells no longer respond to insulin.

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How can you test simulated urine for sugar?

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Write the BMI equation.

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How do you calculate waist:hip ratio?

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Does a correlation between BMI and type 2 diabetes prove cause?

$$\text{BMI} = \text{mass (kg)} \div \text{height (m)}^2$$

Add Benedict's solution and heat in a hot water bath. Blue turns green, yellow, orange or brick red if sugar is present.

No. Other factors may be involved, and BMI does not show fat compared with muscle.

Waist circumference $\div$ hip circumference.