## Diabetes.

People who have a disease called diabetes cannot control their blood glucose levels very well. Low concentrations of blood glucose may cause unconsciousness. High concentrations of blood glucose cause tiredness and can damage organs, such as the eyes. If blood glucose concentrations are too high, the kidneys get rid of it by putting it into the urine.

There are two types of diabetes, called type 1 and type 2 diabetes.

## Type 1 Diabetes.

This condition is caused when the pancreas produces too little or no insulin. The result is the person's blood glucose can rise to a level that can kill them.

## **Controlling Type 1 Diabetes.**

- Avoiding foods rich in carbohydrates which can cause blood glucose levels to rise rapidly. 1.
- Injecting insulin into the blood at meal times, so the liver will remove the glucose as it 2 enters the blood from the gut. This stops the level of glucose in the blood from getting too high and is a very effective treatment.

The insulin is injected into the subcutaneous fat layer, found just underneath the skin.

The amount of insulin injected depends on the diet and activity of the person. Eating a healthy diet, low in carbohydrates, and doing regular exercise both reduce the mount of tesale.co. insulin that needs to be injected.

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Liver

## Type 2 Diabetes.

This condition is caused when the **pancreas doesn't produce enough insulin** or the person's **cells** become resistant to insulin, even though be normone is being produced. In both cases the blood glucose level rises.

Type 2 diabetes can be controlled by a healthy diet, regular exercise and losing weight if needed. The condition can also be controlled by medication and insulin injections.

Factors that increase the risk of developing type 2 diabetes are high fat diets, lack of exercise. getting older and being obese. Obese people have a body mass index (BMI) of over 30.

 $BMI = \frac{Body Mass (kg)}{Height^{2} (m)}$ 

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Calculate your body mass index

$$BMI = \frac{Body Mass (kg)}{Height^{2} (m)} = \frac{\$5}{1.79 \times 1.79} = \frac{\$5}{3.2041} = \frac{26.5}{26.5}$$

$$26.5$$