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Control of Blood Sugar Levels

What hormones are involved in the homeostasis of blood sugar?

Why?

All living things use glucose as a source of energy. In mammals it is critical that the levels of glucose in the blood are kept at a fairly constant level. If the glucose concentration in the blood gets too high, a coma could result. If the glucose concentration in the blood gets too low, the person could regain some vision, go into a coma or die. In humans, hormone levels help regulate the glucose concentration in the blood and keep us in homeostasis.

Model 1 - Hormonal Control of Glucose



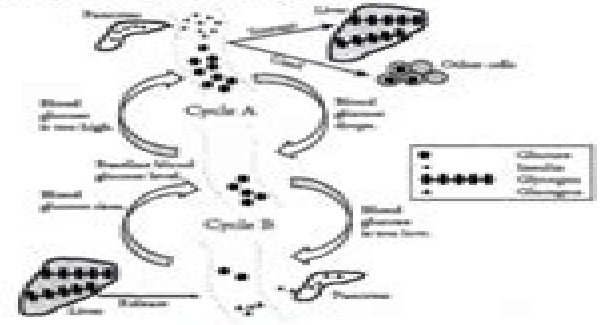
- The relative blood concentrations of which three molecules are recorded in the graph of Model 1? *insulin, glucagon, glucose*
- Which molecule does Model 1 identify in the blood as the highest concentration? *glucose*
- Why do cells need glucose? *cells need glucose for cellular respiration to make?*
- According to the graph in Model 1, what happens to blood glucose levels after a meal has been eaten? *blood glucose levels increase.*

Control of Blood Sugar Levels

2. Refer to Model 1.

- In which glucose levels increase after a meal, the level of which hormone also increases? *insulin*
- In which glucose levels begin to drop before bedtime, the concentration of which hormone increases? *glucagon*
- In which glucose returns to its baseline level, what happens to the levels of insulin and glucagon in the blood? *The levels of insulin and glucagon returns to their baseline levels.*

Model 2 - Feedback Control of Blood Glucose



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- According to Model 2, what are three of the responsibilities of the body that help to regulate blood glucose levels? *liver, pancreas, and ~~cells~~ CS*
- According to Model 2, what is the body's role for insulin and glucagon release from the pancreas?
- Refer to Model 2.
 - What stage in the model requires glucose? *liver and muscle*
 - Describe how glycogen is related to glucose. *glycogen is a polymer of glucose monomers.*
- Which form of sugar, glucose or glycogen, is stored in the liver for release and glycogen?

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Read This!

Liver cells in the body have insulin receptors. When insulin is present, the receptor of glucose liver cells increases. This raises the glucose out of the liver and puts it where it can be used, so the glucose concentration in the blood drops. The glucose can be converted back into glycogen when it is needed. The glycogen can be used by cells directly as an energy source. Blood glucose that remains in the blood gets converted into water.

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- Refer to Model 2.
 - In which cycle is glucose removed from the blood by moving it or storing it into cells in the blood? *cycle A*
 - Which hormone, insulin or glucagon, helps glucose move into cells of the body? *insulin*
 - In which cycle is glucose added to the blood from storage? *cycle B*
 - Which hormone, insulin or glucagon, helps keep glucose from leaving? *insulin*

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- In general, what actions explain the role of insulin in maintaining glucose levels after a large meal? *After a large meal, blood glucose rise causing the pancreas to then release insulin. The presence of insulin increases the transfer of glucose into the cell where glucose can be used or stored as energy. As glucose moves inside the cells, blood glucose levels decrease.*
- In general, what actions explain the role of glucagon in maintaining glucose levels when the organism is hungry? *When the organism is hungry, blood glucose levels decrease below the baseline which causes the pancreas to release glucagon which then releases glycogen from the liver and muscles. As glycogen converts into glucose, blood glucose levels increase.*
- At the end of the cycle in Model 2, identify the stimuli and response for the feedback loop and indicate whether the feedback loop is positive or negative feedback.

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| | Stimulus | Response | Positive or Negative? |
|---------|--------------------|---------------------|-----------------------|
| Cycle A | High glucose level | release of insulin | negative |
| Cycle B | Low glucose level | release of glucagon | negative |

- Define the levels of glucose, glycogen, and insulin in a person who has:
 - Skipped a meal. *low levels of glucose, high levels of glycogen, low levels of insulin*
 - Just ran 5 miles. *low levels of glucose, high levels of glycogen, low levels of insulin*
 - Just ran a large dinner. *high levels of glucose, low levels of glycogen, high levels of*

Pogil Answer Key Control Of Blood Sugar Levels

David Kirk



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