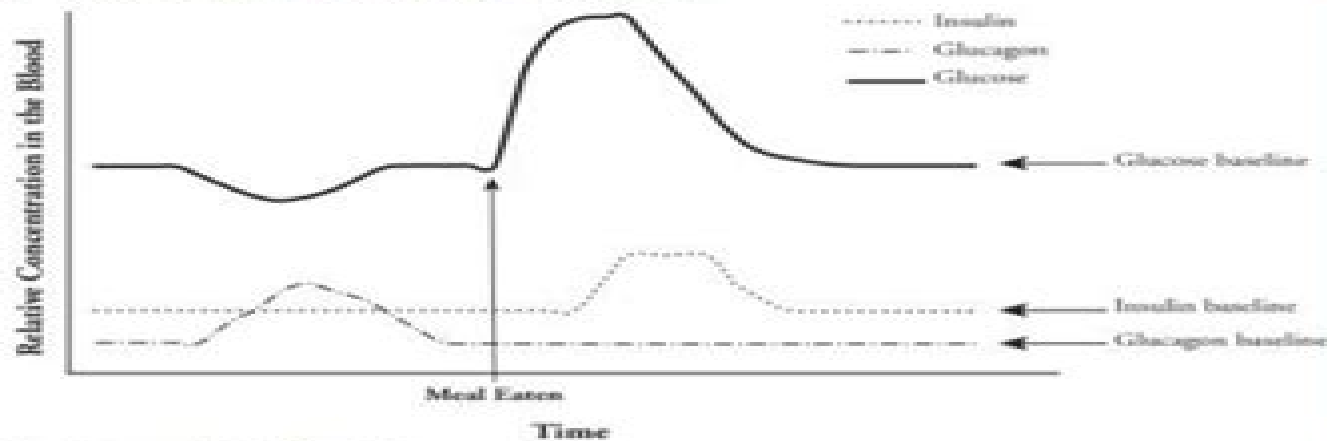


## Control of Blood Sugar Levels

### Why?

All living things use glucose as a source of energy and in vertebrates it is critical that blood glucose levels are consistent. 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 experience seizures, 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



- Using the graph in Model 1:
  - Identify the molecules that have relative blood concentrations shown.
  - Identify the molecule that is found in the blood at the highest concentrations.
  - Outline what happens to blood glucose levels after a meal has been eaten.
- Describe why cells need glucose.
- Compare blood glucose to the hormone levels shown in the graph in Model 1:
  - As blood glucose levels increase above baseline, the level of which hormone also increases?
  - As blood glucose levels begin to drop below baseline, the concentration of which hormone increases?
  - As blood glucose returns to its baseline level, what happens to the levels of insulin and glucagon in the blood?

# Pogil Biology Answer Key Control Of Blood Sugar Levels

**L Towne**



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