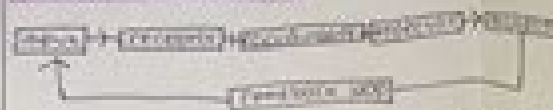


IMPORTANCE

- Physiological control system that maintains internal environment within narrow limits
- ENZYMES**
 - Enzymes, molecules
- CELLS**
 - If it is malfunctioned in blood + tissue fluids

CONTROL MECHANISMS



Positive Feedback

- Deviation in the system
- Causes corrective response
- System continues to deviate
- eg. 1st stage - nerve potential

Negative Feedback

- Change the stimulus
- Corrective response
- Stabilise the system
- eg. 2nd stage - blood glucose

INFLUENCING FACTORS

- Diet - absorbing the nutrients
- Physiological - stress of work + physical + mental
- Genes - inherited

HOMEOSTASIS Pt. 1

DIABETES - A TYPE OF PANCREAS [T1DC]

- type of long-term - when combining with physiological response
- change in body function of the glucose molecule
- change in blood glucose + change in blood + insulin + glucose in blood
- in the insulin case, part of the response is to
- in high insulin case, release into the bloodstream, it is glucose molecule, change

TYPE 1

TYPE 2

TYPE 1

DIABETES - A TYPE OF PANCREAS [T2DC]

- type of long-term - when combining with physiological response
- change in body function of the glucose molecule
- change in blood glucose + change in blood + insulin + glucose in blood
- in the insulin case, part of the response is to
- in high insulin case, release into the bloodstream, it is glucose molecule, change

PROPERTIES

- produced by endocrine glands + secreted during into blood plasma
- Carries to target cell
- binds to receptor on target cell + complementary
- Produced in small quantities
- wide spread and long-lasting effects

SECOND MESSENGER MODEL

- Used by 12 hormones: Adrenaline, Oestrogen
- 1. binding of hormone to transmembrane protein receptor causes signal to travel inside
- 2. activates the enzyme, which activates the 2nd messenger
- 3. 2nd messenger is protein kinase enzyme, changes the shape + activates it
- 4. + activates conversion of glucose to glucose and the blood, T1DC

FEEDBACK LOOP



TYPE OF DIABETES

TYPE 1

- auto immune disease
- glucose runs away
- insulin levels are low
- insulin is produced
- insulin is not working
- insulin is not working
- insulin is not working

TYPE 2

- auto immune disease
- insulin levels are high
- insulin is produced
- insulin is not working
- insulin is not working
- insulin is not working
- insulin is not working

LIVER - REGULATING BLOOD SUGAR

GLUCAGON

- when BGC is higher than normal
- insulin released into blood
- causes glucose to be stored
- BGC decreases

GLUCAGON

- production of glucose from glycogen + amino acids

GLUCAGON

- when BGC is lower than normal
- glucose released into blood
- causes glucose to be stored
- BGC increases

CONTROL OF DIABETES

- Treatment for T1: insulin therapy - high insulin (insulin in blood)
- low insulin - high blood glucose (hyperglycaemia)
- high insulin - low blood glucose (hypoglycaemia)
- Treatment for T2: lifestyle - diet, exercise, weight loss
- insulin therapy - high insulin (insulin in blood)
- low insulin - high blood glucose (hyperglycaemia)
- high insulin - low blood glucose (hypoglycaemia)

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