

1. Kegulation of blood glucose conc-

- Glu- reg: for tissue respiration to release energy for vital activities

Condition V/r > Normalcy red → Corrective mechanism → Stimulus -> Receptor - I plood ald- covc. -Insulin stimulates liver k pancheas 1 in blood glu. muscle to convert excess - 1, insalin prd Greation DNCglucose to glycogen eg. Meg - ve feedback Authet n in plong Ala. - alucagon stimulates liver pancreas - 1 plood gly-conc. & muscle to convert atored - No lucation ords eg. Fasting alycogen to plucose Medication

If blood gly conc. rises sharply above normal, homeostatic control fails to happen ... - Water pot, of blood plasma + > No ADH to absorb/conserve H2O > Blood cells shrink/dehy drated

2. Blood water potential

Receptor -Stimulus Hypothalamus 1 in blood water pot.

Posterior Pituitary Gland

Corrective mechanism

- Hypo-produce less ADH/vasopram k" pp to release less ...

- Blood capillaries surr. nephrons

reabsorb less water

- 1 urine conc.

 \rightarrow cond. $\sqrt{\Gamma}$

- I Blood water pot.

Normalcy

restored

More diwater excreted as dilute urine

-ve feedback

in blood water pot.

Hypothalamus Posterror Pitritam Gland

- Hypo produce more ADH & PPG, release more... - 1 Blood water pot.

- Blood capillaries sur. nephons reabsorb more water

Less woter excleted as concentrated

Bloo Body femperature

Receptor Stimulas

ni bood ni 1 stin tem.

* Teny receptors in otin Local name impulses Brain; Hypothalamus stimulated

I send no i

Relevant body parts

Corrective Mechanism

- Sweat glands more active so more latent heat loss as more water from sweat evaporates

- Arterioles dilate for more blood to be sent to stin surface so more heat loss from skin surface

- Hair erector muscles relax so hair lies relaxed & traps less heat ADHR

METABOLIC RATE decreases!

In blood in stin tm.

Temp. receptors in skin LIN DISELY

Brain, hypothalamis stimul ated I send N.J.

Relevant body parts

- Sweat glands less active so less latent heat loss from lesser evaporation of water from sweat

- Arterioles construct for 1855 blood to be rent to other surface so less heat is lost from skin surface

- Flair etector muscles contract so hair stands, trapping a layer of air that insulates the body

Blood Pemp. 1 to normal

> Cond. V/1 > Kornalo

Blood temp. L

to normal

restile

WETABOLIC RATE marcases! * shivering in exheme coldness



1) Stratum corneum/outer cornitied layer (dead, dry, flat, horny)

- reposition of teratin, but cells continuously subbed of k replaced by new cells beneath

Water-resistant (uncontrolled H2O loss by evaporation prevented)

#2 Prevents mechanical injury (protective layer)

Granular lader

Rhold Hay PMore tree notes at tick his come dry & horning the free notes at tick his come dry & horning the first horning the same to complete the c

③ Innernost Malpighian Layer

- ligmented living cells

Caives colour & protects against UV rays

- New Cells pushed outwards, changing shape & structure > CORN

DERMIS

O Blood versels

- Artertoles carrying blood to numerous blood cap. by vasomotor nerves *Helps regulate body temp.! vasodilation vasoconstriction

2) Hair

- Embedded in dermis, produced by epidermis

- Hair grows inside hair follicle (malpighian layer of epi. sinks into dermis -> hollow tube)

- Hair papilly at base of hair follicle (blood cap. & nerves)

I covered where cells that constantly divide k push new cells 1

New Cells die & harden > Hair! Te -Hair erector muscle attached to hair tollick

(3) Sepaceoinz Blaugz

- Netived from epi, open into hair follicles & secrete sebom:

Ulubricate hair

- beep stin soft & smooth

~ Antiseptic

Dehydration

- Jurr. by blood cap. as sweat is excreted from blood in blood cap. (4) Sweat plands (colled tube) Sweat gland \Rightarrow duct \Rightarrow pore

- Sweat = Water + Nacl + Utea, latent heat of vaporization removed * Regulate body temp.!

2 sevue leceblors

-Nerve endings in epi-k dermis - Erressur EXTERNAL ENV.

SUBCUTANEOUS LAYER (adipose tizzue)

-Store fats formulation



Produced by metabolic activities (tissue tespira) agined by radiation from sun postributed by blood circulation

Lost thy evaporar of sweat, facces, vince, exhalation, ofin by anvection, rad, conduction UEATH by overhedding

Rheia Tay | More free notes at tick.ninja