

Endocrine System

Function and purpose

- ☞ regulates long term changes in the body such as growth and development
- ☞ controls body's daily activities
 - body temperature
 - appetite/thirst
 - rate of digestion
 - eliminates waste
 - sleep cycle
 - heartrate/bloodpressure
 - changes that make reproduction possible
 - rate of growth & development

Endocrine Glands and Functions

1.hypothalamus

- nervous/endocrine system
- body temperature
- sleep
- hunger
- water levels
- "releasing hormones"

2.pituitary

- growth
- reproduction
- metabolism

3.thyroid

- metabolic rate
- calcium levels

Endocrine Glands and Functions

4.parathyroid

- regulates calcium for bones/teeth
- regulates phosphorus for muscle/nerve

5.pancreas

- control sugar levels in blood

6.thymus

- develop immune system

7.adrenal

- response to sudden stress
- balance salt and water in kidneys
- metabolism

Endocrine System

Endocrine Glands and Functions

8. ovaries

- regulates egg maturation
- control changes in female

9. testes

- regulates sperm production
- control changes in males

Bodily changes w/ puberty

BOYS	BOTH	GIRLS
<ul style="list-style-type: none"> • facial hair • chest hair • muscle tissue • enlarge penis • testosterone 	<ul style="list-style-type: none"> • growth spurt • mood swings • emotional • larger pores • voice changes • hair growth on legs and genitals 	<ul style="list-style-type: none"> • develop breast • widen hips • reproductive cycle • estrogen

Male Reproductive System

- produces sex hormones
- produce and store sperm
- deliver sperm to female reproductive system

Male Reproductive Organs

- sperm – sex cell in males
- testes – produce sperm and testosterone
- epididymis – stores mature sperm
- scrotum – holds testes, skin sac
- vas deferens – tube to connect testes to prostate gland
- seminal vesicle – add fluid to sperm for energy
- prostate gland – add fluid to protect sperm
- urethra – small tube that runs through the center of the penis for urine and sperm to exit body
- penis – external organ, sperm exits body through this organ

Keeping the male reproductive system healthy

- cleanliness
- sexual abstinence
- wear protective gear
- self-exams
- medical check up

Endocrine System

Female Reproductive System

- produces sex hormones
- produce and store eggs
- provide nourishing environment for development of fertilized egg

Female Reproductive Organs

- ova – eggs (not fertilized)
- ovaries – produce and release mature eggs, produce estrogen and progesterone
- Fallopian tubes – passageway carries eggs away from ovary
- Uterus – hollow and muscular, where fertilized eggs develop
- Vagina – birth canal, connects uterus to the outside of the body
- Cervix – opening between uterus and vagina

Keeping the female reproductive system healthy

- cleanliness
- sexual abstinence
- prompt treatment for infections
- self-exams
- medical check ups