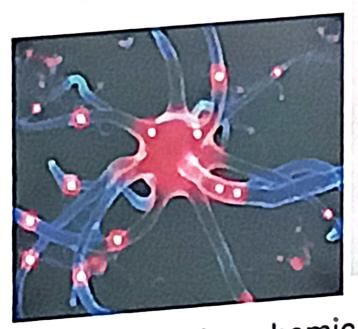


Hormones...





A hormone is a chemical transmitter. It is released in small amounts from glands, and is transported in the bloodstream to target organs or other cells. Hormones are chemical messengers, transferring information and instructions from one set of cells to another.

Human Body: Endocrine System

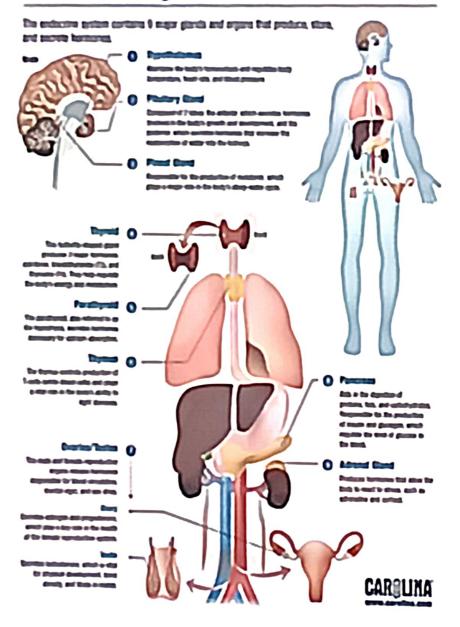


TABLE 10.2 Endocrine Glands, Hormones, and Their Target Tissues				
Cland	Hormone	Target Tissue	Response	
mulay grant				
Actorius	Growth hormone	Most fearer	Increases gene expression, breakdown of lipids, and release of fathy acids from cells, increases blood grucose levels.	
	Thyroid-elimulating hormone (TSH)	Thyroid gland	Increases thyroid harmone secretion (thyroxine and triodathyronine)	
	Advenourhodropic hormone (ACTH)	Adrenal cortex	Increases secretion of glucocorticoid harmones, such as cortical, increases skin pigmentation at high concentrations.	
	Materioxyte-chimaleting fromone (MSI)0	Mercencyles in skin	Increases melanin production in melanocytes to make skin darker in color	
	Luternating hormone (LH) or enterphilat cell-dismutating hormone (ICSH)	Overy in females, tests in motes	Promotes evulation and progesterone production in overy; promotes testasterone synthesis and support for sperm cell production in tests.	
	Folicle-dimulating harmone (FDI)	Folicies in prory in females, seminiferous Nobules in moses	Promotes folicie maturation and estrogen secretion in avery; promotes sperm cell production in testis	
	Projection	Overy and mammary gland in females, teshs in males	Stimulates milk production and prolongs progederane secretion following evulation and during pregnancy in women, increases sensitivity to LH in makes	
Posterior	Arthduretic hormone (ADH)	Cidney	Conserves water; constricts blood vessels	
35	Onytoca	Uterus	Increases elerine contractions	
		Mammay gland	Increases milk teldown from mammary glands	

ABLE 10.2	The country of the co	Target Tixus	Response
and	Hormone	Most cells of the body	Increase metabolic raise, essential for normal proces
Host bod	Thyread formanes (thyreane, tricountyreanes) Calcitoms	Primarily bons	of growth and maturation Decreases rate of bone breakdown, prevents large increase in blood Carl levels following a medi
eriod bara	Porchyod homone	Bons, tutney	Increases retained bone breakdown by extendests, increases retainin D synthesis, essential for maintenance of normal blood colours levels.
and medulo	four mahimhane	Heart, Bland vessels, Ever, fot cells	Increases cordiac output; increases blood flow to shaletal muscles and heart, increases release of glucose and fatty axids into blood, in general, prepares body for physical aximity.
engl cartes	Minerpocarticoids (gldosteronal)	Extrems to lesser degree, intestine and sweat glands	Increase rate of sodium transport into body; increase rate of pulassium excretion; secondarily lawar water retention.
	Caccordiscoside (Corffees)	Most tissues (e.g., liver, fot, statefol muscle, emmune froued)	Increase for and protein breakdown, increase glucose synthesis from amino acids, increase blood nutriect levels, inhibit inflammation and immune response
	Acres endrogens	Most tissues	Insignificant in moley increase female sexual drive, growth of public and axillary has
CPES	trode	Especially liver, shaleful muscle, adipose fasse	Increases uptoke and use of gluonie and amino ocids
	Chucogon	Primarily liver	Increases breakdown of glycogen and release of glucose into the circulatory system

Secretions from the adrenal

cortex...



Aldosterone: essential in regulating electrolyte and water balance by promoting sodium and chloride retention and potassium excretion.

Androgens: several hormones including testosterone; they promote the development of secondary sex characteristics in the male.

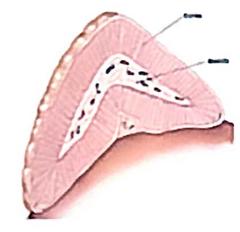


Secretions from the adrenal medulla...



- Place the victim in shock position.
- Keep the person warm and comfortable
- Turn the victim's head to one side if neck injury is not suspected





Dopamine is used to treat shock. It dilates the arteries, elevates systolic blood pressure, increases cardiac output, and increases urinary output.



from the adrenal medulla...



Epinephrine is also called adrenalin. It elevates systolic blood pressure, increases heart rate and cardiac output, speeds up the release of glucose from the liver... giving a spurt of energy, dilates the bronchial tubes and relaxes airways, and dilates the pupils to see more clearly. It is often used to counteract an alleroic reaction.

Secretions from the adrenal medulla...



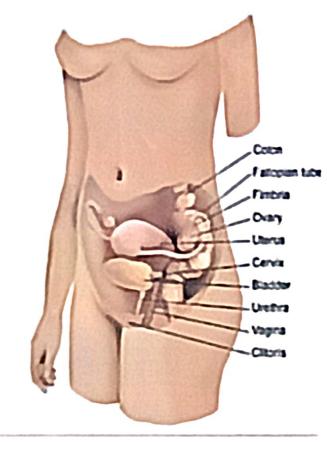


Norepinephrine, like epinephrine, is released when the body is under stress. It creates the underlying influence in the *fight or flight response*.

Secretions of the ovaries...

The ovaries produce several The Female Reproductive System

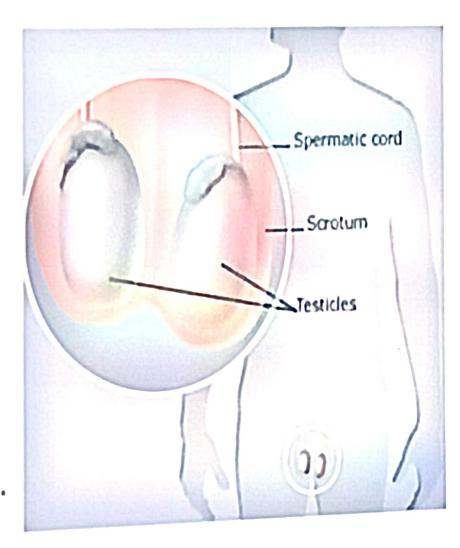
progesterone. These hormones prepare the uterus for pregnancy, promote the development of mammary glands, play a role in sex drive, and develop secondary sex characteristics in the female.



Estrogen is essential for the growth, development, and maintenance of female sex organs.

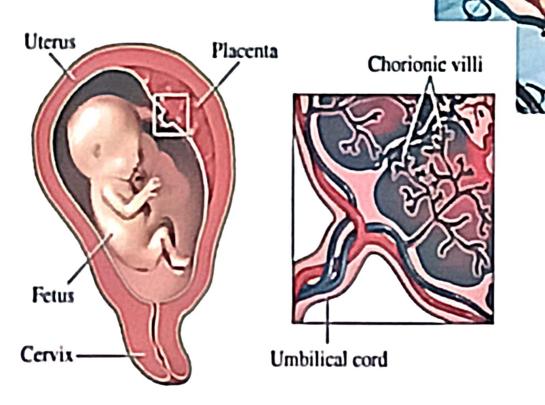
Secretions of the testes...

The testes produce
the male sex
hormone called
testosterone. It is
essential for normal
growth and
development of the
male sex organs.
Testosterone is
responsible for the
erection of the penis.



Secretions of the placenta...

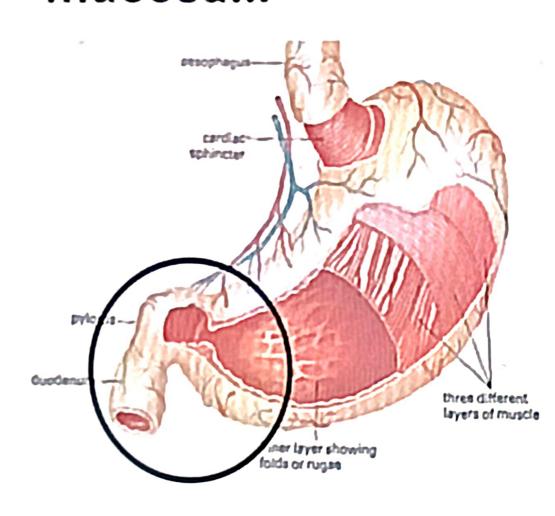
During pregnancy, the placenta serves as an endocrine gland.



It produces
chorionic
gonadotropin
hormone,
estrogen, and
progesterone.

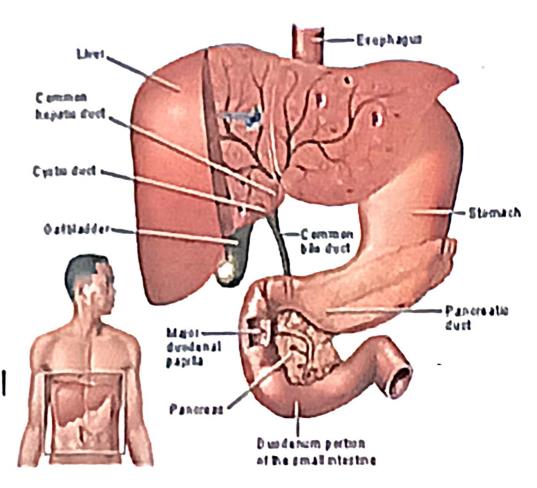
Secretions of the gastrointestinal mucosa...

The mucosa of the pyloric area of the stomach secretes the hormone gastrin, which stimulates the production of gastric acid for digestion.



Secretions of the gastrointestinal mucosa...

The mucosa of the duodenum and jejunum secretes the hormone secretin, which stimulates pancreatic juice, bile, and intestinal secretion.



Secretions of the thymus...

The thymus gland has two lobes, and is part of the lymphatic system. It is a ductless gland, and secretes thymosin.
This is necessary for the Thymus' normal production of T cells for the immune system.

