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END PSYCHOLOGY P.G.S. NEUROPSYCHOI

ENDOCRINE SYSTEM

The word endocrine derives from the Greek words "endo," meaning within, and "crinis," meaning to secrete. In general, a gland selects and removes materials from the blood, processes them and secretes the finished chemical product for use somewhere in the body. Is called endocrine system affects almost every organ and cell in the body.



A gland is an organ that makes and puts out hormones that do a specific job in your body. Endocrine glands release the substances they make into your bloodstream .

Function of Endocrinesystem

 Makes hormones that control your <u>moods</u>, growth and development, <u>metabolism</u>, organs, and reproduction
Controls how your hormones are

released

 Sends those hormones into your bloodstream so they can travel to other body parts.

P&RTS..

• Many glands make up the endocrine system. The hypothalamus, pituitary gland, and pineal gland are in <u>brain</u>. The thyroid and parathyroid glands are in neck. The thymus is between lungs, the adrenals are on top of kidneys, and the pancreas is behind stomach. Ovaries (in a woman) or testes (in a man) are in pelvic region.





HYPOTH&L&MUS

This organ connects our endocrine system with nervous system. Its main job is to tell our pituitary gland to start or stop making hormones.



PITUITARY GLAND

Pituitary Gland is called Master Gland. The primary role of the pituitary gland is an important link between the nervous system and the endocrine system. It releases many hormones which affect growth, metabolism, sexual development and the reproduction system. It is connected to the hypothalamus and is about the size of a pea. It is located in the center of the skull, just behind the bridge of Hindbrain

Pituitary gland Cont..

•. It makes many important hormones, including growth <u>hormone</u>; prolactin, which helps breastfeeding moms make milk; and luteinizing hormone, which manages estrogen in women and testosterone in men.

PINEAL GLAND

Pineal gland - It makes a chemical called <u>melatonin</u> that helps our body get ready to go to <u>sleep</u>.

THYROID GLAND

 This gland makes thyroid hormone, which controls your <u>metabolism</u>. If this gland doesn't make enough (a condition called hypothyroidism), everything happens more slowly. Your <u>heart</u> <u>rate</u> might slow down. You could get <u>constipated</u>. And you might gain weight.

Yhy... Cont..

 If thyroid gland makes too much (hyperthyroidism), everything speeds up. Your <u>heart</u> might race. You could have <u>diarrhea</u>. And you might <u>lose weight</u> without trying.

PARATHYROID GLAND

 This is a set of four small glands behind thyroid. They play a role in bone health. The glands control your levels of calcium and phosphorus.

THÝMUS

 This gland makes white blood cells called T-lymphocytes that fight infection and are crucial as a child's <u>immune</u>
<u>system</u> develops. The thymus starts to shrink after puberty.

ADRENALS

 Best known for making the "fight or flight" hormone adrenaline (also called <u>epinephrine</u>), these two glands also make hormones called corticosteroids. They affect our <u>metabolism</u> and sexual function, among other things.

PANCREAS

Pancreas. This organ is part of both your digestive and endocrine systems. It makes digestive enzymes that break down food. It also makes the hormones insulin and glucagon. These ensure you have the right amount of sugar in your bloodstream and your cells.



 In women, these organs make estrogen and progesterone.
These hormones help develop <u>breasts</u> at puberty, regulate the <u>menstrual cycle</u>, and support a <u>pregnancy</u>.



In men, the testes make testosterone. It helps them grow facial and body <u>hair</u> at puberty. It also tells the <u>penis</u> to grow larger and plays a role in making <u>sperm</u>.

THE ENDOCRINE SYSTEM

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PROBLEM

 Hormone levels that are too high or too low indicate a problem with the endocrine system. Hormone diseases also occur if your body does not respond to hormones in the appropriate ways.
Stress, infection and changes in the blood's fluid and electrolyte balance can also influence hormone levels,.