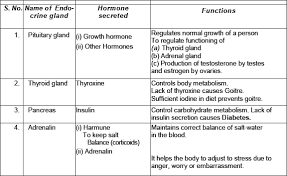
CHAPTER 10 REACHING THE AGE OF ADOLESCENCE

CLASS VIII HAND OUT

MODULE 4

HORMONES OTHER THAN SEX HORMONES

* Apart from the pituitary , the testes and ovaries , there are other endocrine glands in the body such as thyroid, pancreas and adrenals etc. \*Thyroid gland produces thyroxine which prevents‘goitre.
* Endocrine part of Pancreas secretes insulin.
* A person was suffering from ‘ diabetes’ because his pancreas was not producing the hormone insulin in sufficient quantities.
* Adrenal glands secrete hormones which maintain the correct salt balance in the blood.
* Adrenal also produce the hormone adrenalin. It helps the body to adjust to stress when one is very angry, embarrassed or worried.



\*Thyroid and adrenal secrete their hormones when they receive orders from the pituitary through its hormones.

\* Pituitary also secretes growth hormone which is necessary for the normal growth of a person.

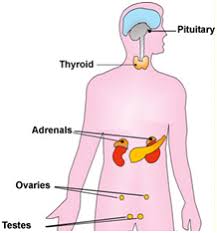


Fig : Position of endocrine glands in the human body

ROLE OF HORMONES IN COMPLETING THE LIFE HISTORY OF

INSECTS AND FROGS

METAMORPHOSIS- The change from larva to adult is called metamorphosis.

* In insects , metamorphosis is controlled by insect hormones.
* In a frog , it is controlled by thyroxin, the hormone produced by thyroid.
* Thyroxine production requires the presence of iodine in water.
* If the water in the which the tadpoles are growing does not contain sufficient iodine , the tadpoles cannot become adult.

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