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Paper: chemical pathology

Q:1 Write down a detail note on thyroid hormones

Ans: Thyroid hormones are basically have two types T3 and T4 and they are produce by thyroid gland. T3 is also known as Triiodothornin T4 thyroxine. They are tyrosinebased hormones. These hormones are primarily responsible for metabolism T3 and T4 are partly composed of iodine. Thyroid hormones are responsible for many works such as your mood , body weight, mucle strength and many more thyroid hormones are paly a basic rule in our body. When a person have abnormal thyroid hormones called hypo or hyper thyroidisim and hypo thyroidisim means TFTs is less than normal called hypo.

Q:2 Explain and classify adrenocortical hormone ?

Ans:2 The adrenocortical hormones are release and produce by adrenal cortex. Adrenocortical hormones are steroids molecules. Adrenocortical hormones are basically two types.

Corticosteroids and androgens Corticosteroids perform many works such as sexual characteristics immune function , salt and water balance and inflammation.

Androgens hormone play main rule the skeleton muscles enlargement is the main work performed by androgens hormone and it's also steroids molecular hormones.

Q:3 Define and Explain hypothyroidism and hyperthyroidism?

And: Hypo and Hyper these are prefix it shows the up and down level. Hypothyroidism is a condition in which T3 and T4 or we can say TFTs are come down from the normal range called hypothyroidism and it's also called the TFTs abnormalities. Hyperthyroidism is also TFTs abnormalities in which TSH , T4 and T3 hormones are leave the normal range and go up is known as hyperthyroidism and it's also called thyroid disease. TFTs is the profile test for thyroid hormones abnormalities.

Q:4 How calcium is regulate? Define osteomalacia?

Ans:4 Calcium regularity is performed by PTH hormone which basically called para thyroid hormones and PTH regulate the calcium level in our blood when PTH is abnormal our calcium level should be increased. PTH break the osteoclast and after it calcium is come into our blood and calcium level bring back to the balance.

Osteomalacia is a disease characterize by softing of the bone caused by impair bone metabolism primarily due to leavel of available phosphate, calcium, and vitamin D3 and resorption of calcium is called osteomalacia.

Q:5 Write a note on Sex hormones?

Ans:5 During adolescence male testis and female ovaries are mature gonads sex organs Begin to secrete sex hormones these hormones are responsible for puberty and secondary sex characteristics. We have many different types of sex hormones in male and in female. Testosterone hormone is a male sex hormone which is produced by testis and we can say from adrenal cortex glands progesterone is a female sex hormone which is produced from ovaries after ovulation and estrogens are also female sex hormones and it is also produced from ovaries. These all types of hormones have different types of work in our body.