1 Importance of clinical Biochemistry

It is used in clinical diagnosis. manufacture of various biological products, treatment of diseases

clinical Brochemistry has revealed the abnormalities in their metabolism and their relationship to various diseases

List the clinical features of Lesch Nyhan Syndsome

. Neurological symptoms:

Severe neurologic disease, charaterized by self multilating behaviors such as lip and finger biting on head banging.

(3)

· Involuntary muscle movement.

Write a note on coris disease

It is a Type III Gily Logen storage disease caused due to alycogen debranching engyme. De position of abnormal glycogen storage. It affects the Liver and musch.

Clinical features

Hout 15.1. affect liver only. Hypoglycaemia, poor , moderate progressive my opathy growth, hepatomegaly

Symptome can regress with age

protein supplements for muscle disorder Treatment is

Write the vision related Clinical conditions in Albinism.

In Ocular albinism only the eyes lack pigment.

Rapid involuntary back and forth movement of the eyes

Extreme near sight-edness or far sight-edness Sensitivity to light.

5) State the recent methodological usues in Unical biochemistry.

Most recent methodological issues in clinical brochemistry are all associated with highvolume itesting: laboratory automation and workflow management.

and computational issues.

- (6) List the clinical features of Nieman Pick disease
 - · Type A wouldy begins in the first few months of
 - Abdominal swelling within 3-6 months.
 - cherry red spot in the eye
 - Feeding difficulties
 - · Type B symptoms are usually milder
 - They occur in late childhood or the teinage years
 - Abdominal swelling may occur ni young children
 - · Type c affects school aged children.
 - Enlarged spleen
 - Enlarged liver
 - Learning difficulties

(1) Give the name and symptoms of the condition where galactose accumulates in blood.

Galactosemia is the condition where galactore accumulates in blood

symptoms

(0)

(9)

(10)

Intellectual disability
Hepatromegaly
Hepatro failure
Renal failure

What is the cause of Here Disease ?

It is caused due to increased deposits of normal glycogen in liver or in red or white blood cells.

Liver phosphorylase engyme is affected.

blrite a note on Fouctosuria?

Fructosusia is a autosomal recessive genetic disorder arises as a smult of deficiency of the hepatic engyme fewto kinase. Escential fructosusia is characterized by the presence of fructose in the wrine after ingesting fructose this disorder is mild and it probably remains undiagosed in many people

bloite a note on Addison's disease

Addisons disease occurs when your body doesn't produce enough of certain hormonis.

Adveral gland produce little cortisol and andosterone

Steadily worsening fatigue.

. Aldominal pain

. Nausea and vomiting. Diarrhea. Name the hormone, popularly called as stress hormone? Cortisol is hormone released by the advenal gland in response to stress or lowered levels of blood glucocorticoids and is involved in stimulating glucost synthesis, and anti-stress and anti-inflammatory processes

Watte the role of aldosterone in minural metabolism?

Aldosterone regulates the salt and water balance of the body by increasing the retention of Nat and water and the exerction of potassium by the bidneys the also has a limited effect on the metabolism of fats, car boby drates and proteins.

Give the pathway for the conversion of testosterone to Estrogen hormone.

Testosterone

Asomabase

NADPH

B-Estradiof (estrogen hormone)

Testosterore is converted to BEstradiof by a microsomal engyme aromatase which brings about about aromatisation of sing A. It brings about 3' successive hydroxylations of bestosterone and the first hydroxylated product loses (18 hon engyment cally and converted to 13 estradiol.

What are the outcomes of typesthyroidism? Hyperthyroidism in adults is associated with excessive heat generation, metabolic wasting, cardiac dysfunction (tachycardia), tremors and anxiety. Recall the hormone responsible for breast cancer. Estrogen and progesterione are the hormones responsible for breast cancer. Being exposed to long time of these hormones are responsible for breast cancer Name the hormone, popularly called as stress (b) Cortisol is called these hormone. Write the role of aldosterone in mineral metabolism (17) Ib regulatus the Nat and water and excrete Kt by the kidneys. Imporbance of thyroid hormone. Thyroid hormone hops with brain development and function. Regulates the metabolic rate of the body. Muscle control and Bone health Protein synthesis. Types of Growter. colloid goiter Nontoxic goiter Poxic goitul.

Define monoamine hormones.

The monoamine hormones are hormones duived from anomatic amuno acids such as phenylaline, tyrosine and tryptophan and are involved in neutotransmission. eq catecholamines, Adrenaline, Dopamine.

list out the naturally occurring. Estrogens in Human:

Estrone (E1)

tstradiol (E2)

Estrict (63)

are the 4 naturally occurring Estetrol (EH)

and the contract of the contra

estrogens in women.