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SUMMITTED TO ADNAN KHAN SIR

SUBJECT CHEMICAL PATHOLOGY

Choice the correct answer

1 Answer ( C )

2 Answer ( B )

3 Answer ( C )

4 Answer ( D )

5 Answer ( D )

6 Answer ( A )

7 Answer ( D )

8 Answer ( D )

9 Answer ( C )

10 Answer( B )

11 Answer(C )

12 Answer(C )

13 Answer( A )

14 Answer( D )

15 Answer( A )

QUESTION : what do you know about proteinuria details ?

Answer : proteinuria:

It can be defined as Excess serum protein excreted in the urine is known as proteinuria .

Normal protein excretion : < 150 mg total protein / day and 30 mg albumin /day.

Microalbuminuria : 30 \_ 300 mg albumin /day

Albuminuria : is a condition where in the protein albumin is abnormally present in the urine.

Albumin is a major plasma protein ( normally circulating in the blood ) in healthy people.

Only trace amount of its are present in urine, where as largest amount occur in the urine of patient with the Kidney Disease.

Albumin is the main protein in the blood.

Its function is to maintain osmotic pressure and transports nutrients.

**Glomerular proteinuria** : increase filtration of macromolecules such is albumin across the glomerular capillary wall.

**Tubular proteinuria** : is proteinuria ( excessive protein in urine ) cause by renal tubular dysfunction. Protein of low molecular weight are normally filtered at the glomerulus of the kidney and are them normally reabsorbed by the tubular cells, that less than 150 mg per Day should be appear in the urine.

**Overflow proteinuria** :That due to hemoglobin myoglobin, or immunoglobulin loss into the urine due to Excess amount in the bloodstream, such as in multiple myeloma( it is cancer that form in a type of white blood cell).

**Symptoms** : if protein loss severe , swelling or edema can occur edema can be present in them.

Face around the eye.

Abdomen

Arms, hand, legs, ankles and feet.

**Other symptoms can include** :Foamy urine, weight gain caused by fluid retention.

## QUESTION 2 Explain ketonuria and phenylketonuria ?

**Answer : ketonuria** : excretion of abnormally large amount of ketones bodies in the urine characteristics of diabetes mellitus, starvation or other medical condition.

**Causes** :Acidosis and coma in diabetes.

**Symptoms** : excessive thirst, frequent urination , nausea, vomiting, abdominal pain.and shortness of breath.

**Phenylketonuria** ( commonly known as PKU) is an inherited disorder date increase the level of substance called phenylalanine in the blood, phenylalanine is a building block of protein ( an amino acid) that is obtained through the diet.

**Symptoms** : Brain damage seizures, tremors ,stunted growth, hyperactivity and eczema.

**Cause** : PKU is an inherited condition caused by defect in the PAH gene . The PAH gene helps create phenylalanine, hydroxylase , the enzyme responsible for breaking down phenylalanine.

## QUESTION :Enlist all the possible causes cushing syndrome ?

**Answer : Cushing syndrome** : A hormonal disorder that occurs when a person levels of cortisol is too high for too long , which leads to many different symptoms.

### Possible causes of Cushing's syndrome

**Endogenous Cushing syndrome** : the source of excessive cortisol is from inside of the body, caused either by

**Pituitary tumor** : 10% of endogenous cause.

**Adrenal tumor** : 15% of endogenous cause.

**Other cause** : 15% are other endogenous cause.

**Exogenous Cushing syndrome** : The source of excessive cortisol from outside the body cause taking medication containing glucocorticoids.