

GOUT

Nucleotide chemistry and metabolism

1. Describe in detail Gout.

2. A 40-year-old male businessman had a party on the previous evening where he consumed excess alcohol. Morning he woke up with excruciating pain in ankle. He was admitted in the hospital, on examination he had fever, ankle joint was swollen and red, felt hot to touch and was very tender and stiff. No other joints were involved. Lymph glands were normal, not tender. Routine peripheral smear revealed mild granulocytosis.

Laboratory data:

RBS : 110 mg/dl

Blood Urea : 28 mg/dl

Serum Creatinine : 1 mg/dl

Serum Uric acid : 10 mg/dl

Urine P H : 6.2

Questions:

- 1) What is the most probable diagnosis?
- 2) Which is common drug & biochemical basis of its action used for its treatment?
- 3) What are the causes of increased uric acid levels?
- 4) Enumerate the conditions associated with hyperuricemia?
- 5) What is uric acid? Mention its plasma conc. & 24-hr urinary excretion.