

**Write short Notes on:**

1. Interleukin 1 (IL-1) in the pathogenesis of Rheumatoid Arthritis.
2. Osteoblast -- osteoclast interactions in osteoporosis.
3. Current classification of lupus nephritis.
4. Lipid Mediators of inflammation.
5. Laboratory work up of Antiphospholipid antibody syndrome (APS).
6. Renal complications of drugs used in rheumatologic practice.
7. Pathogenesis of Fibromyalgia
8. Wnt catenin signaling pathways in bone biology.
9. Innate immunity.
10. Recognition, investigations and management of pulmonary hypertension in connective tissue diseases.

**Write short Notes on:**

1. Safety concerns with use of Anti-tumor necrosis factor therapy.
2. Reflex sympathetic dystrophy (Complex regional pain syndrome)
3. Assessment of disease activity and disease damage in SLE (systemic lupus erythematosus).
4. Hyper mobility syndrome.
5. Stem cell transplantation in autoimmune rheumatic diseases.
6. Clinical application of ultrasound in rheumatologic disorders.
7. Occupational overuse syndromes.
8. Pulmonary renal syndromes.
9. Management of amyloidosis.
10. Treatment of Felty Syndrome.

**Write short Notes on:**

1. Tight control in Rheumatoid Arthritis.
2. Epigenetics and rheumatic diseases.
3. Newer drugs for treatment of Gout.
4. Disease modifying drugs for osteo-arthritis.
5. Endothelin receptor antagonists.
6. Cardiovascular risk in inflammatory rheumatic diseases.
7. Systemic onset juvenile idiopathic arthritis (SOJIA).
8. T cell depleting therapy.
9. Pharmacogenetics and Pharmacogenomics in the use of DMARD (disease modifying anti rheumatic drug) therapy.
10. Undifferentiated connective tissue disease.