

## Teaching topics : Bone and soft tissue

### Teaching outline :

BONE REMODELING, GROWTH, AND DEVELOPMENT

DEVELOPMENTAL (GENETIC) ABNORMALITIES OF BONE

Defects in Nuclear Proteins and Transcription Factors

Defects in Hormones and Signal Transduction Mechanisms

Defects in Extracellular Structural Proteins

Defects in Folding and Degradation of Macromolecules

ACQUIRED ABNORMALITIES OF BONE

Diseases Associated with Decreased Bone Mass-Osteoporosis

Diseases Caused by Osteoclast Dysfunction- Paget Disease

FRACTURES

OSTEONECROSIS (AVASCULAR NECROSIS)

INFECTIONS ---OSTEOMYELITIS

Pyogenic Osteomyelitis

Tuberculous Osteomyelitis

Skeletal Syphilis

BONE TUMORS AND TUMOR-LIKE LESIONS

Bone-Forming Tumors

Cartilage-Forming Tumors

Fibrous and Fibro-Osseous Tumors

Ewing Sarcoma and Primitive Neuroectodermal Tumor (PNET)

Giant Cell Tumor

Metastatic Disease

JOINTS

ARTHRITIS

Osteoarthritis

Rheumatoid Arthritis

Juvenile Rheumatoid Arthritis

Seronegative Spondyloarthropathies-Ankylosing Spondyloarthritis

Infectious Arthritis

Gout and Gouty Arthritis

Calcium Pyrophosphate Crystal Deposition Disease (Pseudogout)

TUMORS AND TUMOR-LIKE LESIONS

Ganglion and Synovial Cyst

Pigmented Villonodular Synovitis/Giant Cell Tumor of Tendon Sheath

SOFT TISSUE TUMORS AND TUMOR-LIKE LESIONS

PATHOGENESIS AND GENERAL FEATURES

FATTY TUMORS-Lipoma, Liposarcoma

## FIBROUS TUMORS AND TUMOR-LIKE LESIONS

Reactive Pseudosarcomatous Proliferations-Nodular Fasciitis, Myositis Ossificans

Fibromatoses-Superficial Fibromatosis, Deep-Seated Fibromatosis(Desmoid Tumors)

Fibrosarcoma

FIBROHISTIOCYTIC TUMORS-Benign Fibrous Histiocytoma, Malignant Fibrous Histiocytoma

TUMORS OF SKELETAL MUSCLE-Rhabdomyosarcoma

TUMORS OF SMOOTH MUSCLE-Leiomyoma, Leiomyosarcoma

SYNOVIAL SARCOMA