

Alterations of Musculoskeletal Function and Alterations of Musculoskeletal Function in Children

1. Compare the types of fractures: comminuted, open, oblique, spiral, transverse, impacted, pathologic, greenstick, and stress.
2. Describe the causes, manifestations, and treatment of fractures.
3. Define the following terms associated with skeletal system stress: dislocation, subluxation, strain, sprain, avulsion, tendonitis, bursitis, epicondylitis, muscle strain, myositis ossificans, and myoglobinuria.
4. Differentiate between osteoporosis, osteomalacia/rickets, Paget disease, and osteomyelitis.
5. Characterize the common types of bone tumors: osteosarcoma, chondrosarcoma, fibrosarcoma, giant cell tumors, and myelomas.
6. Characterize the following inflammatory joints diseases: rheumatoid arthritis, ankylosing spondylitis, and gout.
7. Compare osteoarthritis to rheumatoid arthritis.
8. Describe examples of secondary muscular dysfunction: contracture, stress-induced muscle tension, fibromyalgia syndrome, and disuse atrophy.

Alterations of Musculoskeletal Function in Children

1. Describe the pathophysiology and common clinical features related to osteogenesis imperfecta.
2. Describe the pathophysiology, evaluation, and treatment of Legg-Calve-Perthes disease.
3. Characterize rhabdomyosarcoma of childhood