

Appendix

Musculoskeletal Course Schedule

DAY 1 Lectures

- 8:00 Course Introduction
Normal Development of the Musculoskeletal System
Break
Histology and Growth of Bone
Genetic Disorders and Congenital Malformations

Small Groups

- 10:10 Microscopic Correlations (Streaming Video)
Radiographic Correlations

DAY 2 Lectures

- 8:00 Functional Anatomy of the Upper Limb
Break
Film: Anatomy of the Hand

Small Groups

- 10:10 Surface Anatomy: Sternoclavicular and acromioclavicular joints, coracoid and acromion, medial and lateral epicondyles, radial head, olecranon, styloid processes—median, ulnar, and radial nerves, axillary, brachial, radial, and ulnar arteries
Physical Examination: (See outline in syllabus)
Radiographic Correlations

DAY 3 Lectures

- 8:30 Functional Anatomy of the Lower Limb
Break
Film: Gait: Normal and abnormal

Small Groups

- 9:40 Surface Anatomy: Greater trochanter; ischii; knee joint; tibial tubercle; malleoli; sciatic and common peroneal nerves; and femoral, popliteal, and tibial vessels
Physical Examination: (See outline in syllabus)
Radiographic Correlations

DAY 4 Lectures

- 8:00 Functional Anatomy of the Back
Break
Biochemistry and Physiologic Processes of Bone

Small Groups

- 9:45 Surface Anatomy: Scapula, vertebra prominens, sacroiliac joints, trapezius, latissimus dorsi, costovertebral angle
Physical Examination: (See outline in syllabus)
Radiographic Correlations

DAY 5 Lectures

- 8:00 Disorders of Calciotropic Hormones, Metabolic Bone Diseases, and Abnormalities of Bone Remodeling
Break
Vascular Disorders of Bone

Small Groups

- 9:45 Microscopic Correlations (Streaming Video)
Radiographic Correlations
Case Histories (Metabolic Bone Disease)

DAY 6 Lectures

- 8:00 Infections of Bones and Joints
Break
Tumors and Tumor-like Conditions of the Musculoskeletal System

Small Groups

- 10:00 Microscopic Correlations
(Streaming Video)
Radiographic Correlations

DAY 7 Lectures

- 8:00 Histology, Physiology and Biochemistry of Muscle
Clinical Neurophysiology: Electrodiagnosis of Nerve and Muscle Disease
Break
Electromyography Demonstration
Physiology of Exercise

Small Groups

- 10:15 Review of Peripheral Neurological Examination
Integrative Case Mysteries I

DAY 8 Lectures

- 8:00 Histology of Cartilage and Synovium
Chemistry and Biochemistry of Cartilage and Synovial Fluid
Break
Rheumatoid Arthritis and Other Chronic Inflammatory Arthritides

Small Groups

- 10:10 Microscopic Correlations
Integrative Case Mysteries II

DAY 9 Lectures

- 8:00 Crystal-Induced Arthritides
Break
Osteoarthritis

Small Groups

- 10:15 Patient Presentations with Radiographs

DAY 10 Lectures

8:00 Systemic Response to Trauma
Local Response to Trauma
Break
Principles of Diagnosis and Treatment of Musculoskeletal Trauma

Small Groups

8:00-10:00 Review: All topics

Reading Day

Final Examination (2 parts: 80-question Final and 20-question Practical)