

Lectures covering concentrated Topics in Emergency Medicine (TEMs)

Section	Week	Title	Topics
Orthopedics	033	Orthopedic Examinations and Deep Soft-Tissue Injuries	Neuropathies [neuropraxia and neurotmesis] Upper extremity Axillary nerve Median nerve Musculocutaneous nerve Radial nerve Ulnar nerve Lower extremity Femoral nerve Saphenous nerve Sciatic nerve Peroneal nerve Deep Superficial Tibial nerve Sural nerve Open wounds Bones [18.01.08(b); 18.01.16(b)] Bursae Joints [18.01.14(d,f)] Muscles Tendons [18.01.14(h1)] Other soft-tissue injuries Muscle Compartment syndrome [18.01.14(a)] Contusion [18.01.03(d)] Hematoma Skin Eponychia and paronychia [11.06.04] Felon [11.06.02]
	034	Principles of Orthopedic Diagnosis	Fracture terminology General descriptors Salter-Harris classification Imaging techniques Computed tomography Fluoroscopy Magnetic resonance imaging Plain radiography Radionuclide scintigraphy Ultrasonography
	035	Principles of Orthopedic Treatment	ED management of out-of-hospital splints Expedient Prefabricated Management of closed injuries Dislocations Fractures Ligamentous injury Peripheral nerve injury Tendon injury Management of pain Pain relief Procedure facilitation

	036	Clavicle, Scapula, and Rib Orthopedics	Fractures [18.01.16(b)] Clavicle [18.01.02(c1)] Distal third Middle third Proximal third Scapula Acromion and coracoid process Body and spine Neck and glenoid Rib (simple) [18.01.02(c2)] Ligamentous injuries [18.01.14(d)] and dislocations [18.01.16(a)] Sternoclavicular joint Sprain [11.05.02; 18.01.14(g)] Dislocations [18.01.16(a)] Anterior Posterior Acromioclavicular joint Sprain grades I-III [11.05.02; 18.01.14(g)] Dislocation grades IV-VI [18.01.16(a)] Costovertebral joints Sprain [11.05.02; 18.01.14(g)] Dislocation [18.01.16(a)] Other soft-tissue injuries Neurovascular injury Intercostal artery Intercostal nerve Long thoracic nerve Rib contusions [18.01.03(d)] Scapulocostal syndromes
	037	Shoulder Orthopedics	Dislocations [18.01.16(a)] Anterior glenohumeral Inferior glenohumeral Posterior glenohumeral Superior glenohumeral Fractures [18.01.16(b)] Proximal humerus Articular surface Neer classification Scapula Glenoid Neck Other soft-tissue injuries Adhesive capsulitis [11.03.02] Deltoid contusions Impingement syndrome Neurovascular injuries Axillary artery Axillary nerve Musculocutaneous nerve Rotator cuff tears Subacromial bursitis [11.05.01] Supraspinatus tendonitis [11.05.04] Traumatic synovitis

	038	Arm Orthopedics	Fractures [18.01.16(b)] Humeral shaft Supracondylar Soft-tissue injuries Bicipital tendon Inflammation Luxation Rupture Compartment syndrome [18.01.14(a)] Anterior Posterior Contusions Anterior Posterior Neurovascular injuries Brachial artery Radial nerve
	039	Elbow Orthopedics	Dislocations [18.01.16(a)] Anterior Posterior Fractures [18.01.16(b)] Humerus Condylar Medial Lateral Intercondylar Transcondylar Radius Head Neck Ulna Coronoid process Olecranon process Osteochondritis dissecans Soft-tissue injuries Epicondylitis Neurovascular injuries Neuropathies Anterior interosseous nerve Median nerve Ulnar nerve Pronator syndrome Tunnel syndromes [11.05.03] Cubital tunnel Radial tunnel Olecranon bursitis [11.05.01] Ulnar collateral ligament injury Pediatric considerations Little League elbow Nursemaid's elbow Ossification pattern

	040	Forearm Orthopedics	Fractures [18.01.16(b)] Radius Distal third [excl wrist (below); incl Galeazzi] Middle third Proximal third [excl radial head & neck] Ulna Distal third [excl wrist (below)] Middle third Proximal third [incl Monteggia] Pediatric considerations Greenstick Torus Soft-tissue injuries Compartment syndromes [18.01.14(a)] Dorsal Volar Neurovascular injuries Neuropathies Median nerve Radial nerve Superficial radial nerve Ulnar nerve Vascular compromise
	041	Wrist Orthopedics	Fractures [18.01.16(b)] Carpal bones (proximal row) Lunate Pisiform Scaphoid Triquetrum Radius and ulna Isolated or combined Barton Colles Smith Styloids Radial Ulnar Ligamentous injuries [18.01.14(d)] and dislocations [18.01.08(a)] Capitolunate joint (perilunate dislocation) Radiolunate joint (lunate dislocation) Radiocarpal joint Radioulnar joint Scapholunate joint Other soft-tissue injuries De Quervain's tenosynovitis [11.06.05] Neurovascular injuries Neuropathies Median nerve Ulnar nerve Vascular injuries Tunnel syndromes [11.05.03] Carpal (median) tunnel Ulnar tunnel

	042	Hand and Finger Orthopedics	- Fractures [18.01.16(b)] - Carpal bones (distal row) - Capitate - Hamate - Trapezium - Trapezoid - Metacarpal bones - Head - Neck - Shaft - Base - Phalyngeal bones - Extraarticular - Intraarticular - Ligamentous injuries [18.01.14(d)] and dislocations [18.01.16(a)] - Intercarpal joints - Interphalyngeal joints - Metacarpalphalyngeal joints - Other soft-tissue injuries - Bites [06.01.02; 18.01.03(b)] - Compartment syndromes [18.01.14(a)] - Finger - Tip - Nail and nailbed - Foreign bodies - Injections [18.01.14(c)] - Neurovascular injuries - Neuropathies - Median nerve - Radial nerve - Superficial radial nerve - Ulnar nerve - Vascular injuries - Palmar arterial arch - Metacarpal and digital arteries - Puncture wounds [18.01.03(f)] - Tendons and sheaths - Closed - Open - Tenosynovitis [11.06.05]
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	043	Hip Orthopedics	Dislocations [18.01.08(a)] Native Anterior Posterior Prosthetic Fractures [18.01.08(b)] Apophyseal avulsions Femur Greater trochanter Lesser trochanter Pelvis Anterior inferior iliac spine Anterior superior iliac spine Iliac crest Ischium Proximal femur Head Neck Soft-tissue injuries Bursitis [11.05.01] Iliopsoas Ischiogluteal Trochanteric Deep Superficial Calcific tendonitis [11.05.04] Neurovascular injuries Femoral artery Neuropathies Femoral nerve Sciatic nerve Snapping hip syndromes Pediatric considerations Slipped capital femoral epiphysis [11.03.03(b)] Transient synovitis [11.06.05]
	044	Thigh Orthopedics	Fractures [18.01.08(b)] Femur Proximal third [inter- & subtrochanteric] Native Prosthetic Middle third Distal third Bicondylar Condylar Supracondylar Tibial tuberosity Soft-tissue injuries Contusion [18.01.03(d)] Compartment syndromes [18.01.14(a)] Anterior Posterior Muscle or tendon rupture Hamstrings Quadriceps [18.01.14(h2ii)] Myositis ossificans [11.04.01] Neurovascular injuries Patellofemoral syndrome

	045	Knee Orthopedics	Dislocations [18.01.08(a)] Femoraltibial Patellar Tibiofibular Fractures [18.01.08(b)] Patella Proximal fibula Proximal tibia Condyles (plateau) Spines Internal derangements [18.01.14(d)] Effusion Ligaments Collateral Lateral Medial Cruciate Anterior Posterior Menisci Lateral Medial Osteochondritis dissecans Other soft-tissue injuries Bursitis [11.05.01] Anserine Gastrocnemius Infrapatellar Deep Superficial Prepatellar Popliteal Semimembranous Fabella syndrome Hoffa's disease (fat-pad syndrome) Iliotibial band syndrome Jumper's knee Neurovascular injuries Neuropathies Common peroneal nerve Tibial nerve Popliteal artery Pediatric considerations Osgood-Schlatter disease Patella apophysitis
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	046	Leg Orthopedics	Fractures [18.01.08(b)] Complete Partial Soft-tissue injuries Compartment syndromes [18.01.14(a)] Acute Anterior Lateral Posterior Deep Superficial Chronic (exertional) Rupture Muscle Gastrocnemius Soleus Tendon Achilles [18.01.14(h2i)] Plantaris Neurovascular injuries [by compartment] Shin splints Medial tibial stress syndrome Soleus syndrome
	047	Ankle Orthopedics	Dislocations [18.01.08(a)] Anterior Lateral Posterior Superior Fractures [18.01.08(b)] Maisonneuve Malleoli Combined Isolated Talus (minor fractures) Avulsion Posterior facet Osteochondritis dissecans Soft-tissue injuries Neurovascular injuries Neuropathies Vascular injuries Dorsalis pedis artery Posterior tibial artery Sinus tarsi syndrome Sprains [18.01.14(d)] Synovitis [11.06.05] Talotibial exostosis Tenosynovitis [11.06.05] Pediatric considerations Freiberg's disease Pes planus Sever's disease Tarsal coalition

	048	Foot and Toe Orthopedics	Fractures [18.01.08(b)] - Tarsal bones - Calcaneus - Extraarticular - Intraarticular - Cuboid - Cuneiform - Navicular - Avulsion - Body - Tuberosity - Talus (major fractures) - Body - Head - Neck - Metatarsal bones - Head - Neck - Shaft - Base - Phalangeal bones - Extraarticular - Intraarticular - Ligamentous injuries [18.01.14(d)] and dislocations [18.01.08(a)] - Interphalangeal joints - Lisfranc joint - Midfoot joints - Tarsometatarsal joints - Other soft-tissue injuries - Achilles tendinopathy [11.05.04] - Bunion - Bursitis [11.05.01] - Calcaneal - Forefoot - Compartment syndromes [18.01.14(a)] - Heel-pad atrophy - Ingrown toenail - Neurovascular injuries - Neuropathies - Calcaneal nerve - Deep peroneal nerve - Plantar nerves - Lateral - Medial - Sural nerve - Vascular injuries - Palmar arterial arch - Metacarpal and digital arteries - Plantar fasciitis [11.06.01] - Puncture wounds [18.01.03(f)] - Subungual exostosis - Tarsal tunnel syndrome [11.05.03]
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