

Trauma: Bone, Joint — Medical Knowledge				
Level 1	Level 2	Level 3	Level 4	Level 5
<ul style="list-style-type: none"> • Understands the pathomechanics of common fractures/dislocations and soft tissue injuries • Describes the anatomy and function of the upper extremity • Understands the principles of splinting and casting • Understands basic imaging principles and techniques • Understands the biology of osseous and ligamentous healing • Describes the effects of medical comorbidities on fracture healing (e.g., Vitamin D deficiency, osteoporosis, smoking) • Understands the Salter-Harris fracture classification 	<ul style="list-style-type: none"> • Understands the basic biomechanics of the upper extremity • Demonstrates knowledge of the pathologic anatomy of hand fractures, dislocations, and ligamentous injuries • Understands the indications for advanced imaging • Understands surgical approaches and fixation techniques for hand fractures/dislocations • Demonstrates knowledge of associated hand injury patterns (e.g., median nerve injury and/or scapholunate ligament (SL) injury with distal radius fractures) • Recognizes surgical indications (e.g., median nerve dysfunction, instability, articular step off/gap) • Understands principles of remodeling in the pediatric hand and forearm 	<ul style="list-style-type: none"> • Demonstrates knowledge of current literature regarding fracture/dislocation classifications and therapeutic alternatives • Understands the natural history of distal radius fractures • Understands the implications of forearm and elbow injuries • Understands the biomechanics of different implant choices • Understand the advantages and disadvantages of different fixation techniques • Understands the principles of post-operative hand therapy regimens • Understands the indications for autologous bone grafting and bone substitutes • Understands the etiology, management, and functional limitations of non-union, malunion, and chronic subluxation • Understands the sequelae and management of pediatric hand and forearm injuries 	<ul style="list-style-type: none"> • Understands, analyzes and evaluates controversies within field (e.g. fixation techniques, fracture pattern) • Understands the principles of prosthetics and secondary rehabilitation • Understands the risks and consequences of early physeal closure 	<ul style="list-style-type: none"> • Publishes research findings on this topic in the literature
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Comments:				

Trauma: Bone, Joint — Patient Care				
Level 1	Level 2	Level 3	Level 4	Level 5
<ul style="list-style-type: none"> • Orders and interprets basic imaging studies • Performs simple closed reduction and splinting of pediatric and adult fractures/dislocations • Provides basic post-operative management and rehabilitation • Obtains a focused history and performs a focused physical examination of bone and joint traumatic injuries • Develops a treatment plan for associated soft tissue injuries 	<ul style="list-style-type: none"> • Orders and interprets advanced imaging (e.g., computed tomography [CT] for comminuted articular fractures) • Recognizes stable/unstable fractures/dislocations (including CMC) • Independently formulates a treatment plan for simple fracture dislocations • Performs surgical fixation of simple extra-articular fractures/dislocations • Performs surgical exposure for fracture • Manages open distal phalanx physeal injuries • Manages simple complications (e.g., infections, acute compression neuropathy, compartment syndrome) 	<ul style="list-style-type: none"> • Performs surgical reduction and fixation of simple intra-articular fractures (e.g., no more than two articular fragments) • Independently formulates a treatment plan for patients with comorbidities and/or mangled extremity • Surgically treats CMC fracture dislocations • Performs reduction and repair of ligamentous injuries (MCP and PIP joints) • Performs reduction and pin fixation of pediatric phalangeal neck fractures 	<ul style="list-style-type: none"> • Performs arthroscopic diagnosis and debridement for traumatic injuries of the wrist • Treats DRUJ dislocation and/or triangular fibrocartilage complex (TFCC) injury • Performs reduction and fixation of complex hand and wrist fractures and dislocations (e.g., comminuted intra-articular fractures, intra-articular PIP injuries, perilunate injuries, scapholunate ligament injuries) • Surgically treats complex complications (e.g., those requiring osteotomy, revision fixation, bone grafting, nonunion surgery surgeries, hardware replacement) • Performs operative reduction and fixation of displaced scaphoid fracture • Modifies and adjusts post-operative plan when indicated • Provides surgical management of physeal growth arrest (e.g., wedge osteotomy, epiphysiodesis) 	<ul style="list-style-type: none"> • Performs complex arthroscopic/minimally invasive fixation techniques (e.g., arthroscopic scaphoid internal fixation) • Performs revision surgery for complex nonunions and dislocations (e.g., displaced scaphoid with avascular necrosis [AVN]) • Performs physeal bar excision
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Comments:				