

Upper Extremity Trauma — Medical Knowledge				
Level 1	Level 2	Level 3	Level 4	Level 5
<ul style="list-style-type: none"> • Understands common fractures/dislocations and soft tissue injuries • Understands of the anatomy, function, and basic biomechanics of the upper extremity • Understands principles of splinting and casting 	<ul style="list-style-type: none"> • Understands principles of soft tissue coverage and bony stabilization • Understands principles of bone fixation and flaps • Understands the diagnosis and treatment of vascular injuries and acute compartment syndrome 	<ul style="list-style-type: none"> • Understands complicating factors (e.g., exposed critical structures, bone loss, vascular compromise) • Understands the principles of routine vessel, nerve, tendon, and bony repairs • Understands the principles of post-operative hand therapy regimens 	<ul style="list-style-type: none"> • Understands biomechanics of tendon transfers • Understands the principles of complex procedures (e.g., nerve grafting, secondary tendon reconstruction, replantation) • Understands the principles of prosthetics, secondary rehabilitation, and chronic regional pain syndromes 	<ul style="list-style-type: none"> • Understands principles of nerve and tendon transfers for combined nerve and brachial plexus injuries • Understands the composition and management of multidisciplinary hand center
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Upper Extremity Trauma — Patient Care				
Level 1	Level 2	Level 3	Level 4	Level 5
<ul style="list-style-type: none"> • Performs history and physical examination and orders diagnostic and imaging studies • Assists with procedures (e.g., making incisions, skin closures, applying splints and dressings) • Provides routine post-operative care 	<ul style="list-style-type: none"> • Explains the risks and benefits of hand trauma procedures and obtains consent; interprets imaging studies • Performs routine procedures with assistance (e.g., repair of simple hand fractures, tendon, nerve lacerations) • Recognizes complications (e.g., vascular compromise, compartment syndrome) and enlists help; prescribes post-operative rehabilitation 	<ul style="list-style-type: none"> • Formulates a treatment plan, with assistance, for common hand injuries (e.g., tendon injury, nerve lacerations, fracture/dislocation) • Independently performs routine procedures; performs complex procedures (e.g., repair of the mangled hand and revascularization, microvascular flap coverage) with assistance • Manages complications with assistance 	<ul style="list-style-type: none"> • Independently formulates a treatment plan, including for patients with comorbidities and a devascularized or mangled extremity • Independently performs complex procedures • Independently manages complications and secondary deformities (e.g., contractures, nonunions, tendon rupture) 	<ul style="list-style-type: none"> • Contributes to the practice of hand surgery through research and innovative treatments • Manages work-related injuries and return-to-work issues • Manages chronic regional pain syndromes
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