

Day Twelve: Elbow, Forearm, Wrist, and Hand / Counseling Strategies to Enhance Self-efficacy

Content Summary

- Clinical reasoning principles strategies to improve self-efficacy and prevent the progression toward disablement
- Elbow, forearm, wrist and hand anatomy as it relates pain, muscle power, and mobility deficits
- Interpret elbow, forearm, wrist and hand clinical findings consistent with the ICF-based clinical guidelines
- Manual therapy to address elbow, forearm, wrist and hand soft tissue, joint, and nerve mobility deficits
- Therapeutic exercises to address relevant elbow, forearm, wrist and hand mobility, muscle power, coordination, sensory, and pain impairments

Knowledge to Review/Acquire Prior to Class

- 1. CPG Interactive Learning Module: Carpal Tunnel Syndrome
- 2. CPG-related Procedure Options Wrist & Hand Labs Handout & Videos 4.1, 4.2, 4.3, and 4.4
- 3. PhysioU app Orthopaedics:

Lateral epicondylgia/Lateral elbow pain with muscle power deficits Carpal tunnel syndrome/Hand sensory deficits

4. PhysioU app – Exercise Patterns:

Elbow pain and power deficits/Tennis elbow-elbow epicondylitis

Elbow, Forearm, and Wrist strengthening

Elbow and forearm radiating pain/Peripheral entrapment neuropathy

Upper limb nerve mobility exercises

Wrist pain and sensory deficits/Carpal tunnel syndrome

Upper limb and Thorax mobility exercises

Neck and Chest stretching exercises

Selected References

Erickson M, Lawrence M, Jansen CW, Coker D, Amadio P, Cleary C. Hand pain and sensory deficits: Carpal tunnel syndrome: Clinical practice guidelines linked to the international classification of functioning, disability and health from the academy of hand and upper extremity physical therapy and the academy of orthopaedic physical therapy of the American physical therapy association. *J Ortho Sports Phys Ther*. 2019;49(5):CPG1-85.

Procedure Focus

Manual Resistive Tests:

Extensor Carpi Radialis Brevis and ECRL

Abductor Pollicis Brevis

1st Dorsal Interosseous

Abductor Pollicis Longus

Extensor Pollicis Brevis

Provocation Examination:

Elbow Extensor Tendons: ECRB & ECRL

Carpal Tunnel Guyon's Tunnel

deQuervain's related Tendons: APL and EPB

Finkelstein's Test

Ligament Integrity Tests:

Elbow Valgus Stress Test

1st MP Valgus Stress Test

Accessory Movement Tests:

Ulnar Distraction

Radial Posterior Glide

Radial Anterior Glide

Radial Distraction

Distal Radioulnar Joint

Ulnomeniscotriquetral Joints

Radiocarpal Joints

Intercarpal Joints

Ulnar Anterior & Posterior Glides

Manual Therapy:

Elbow Flexion MWMs

Elbow Extension MWMs

Ulnar Distraction

Radial Posterior Glide

Radial Anterior Glide

Forearm Pronation MWMs

Ulnar Anterior Glide

Ulnar Posterior Glide

Wrist Extension MWMs

Radial Distraction

Scaphoid/Radius Glides

Lunate/Radius Glides

Proximal Carpal Row Ulnar Glides

Proximal Carpal Row Ulnar Glides

Scaphoid/Lunate Volar Glides

Hamate or Capitate Volar Glides

Intercarpal Dorsal/Volar Glides

Interphalangeal MWMs

Phalanx Volar Glides

Phalanx Dorsal Glides