Musculoskeletal – Wrist and Hand – Physical Exam Checklist Learnpediatrics.com – Written by Dr. R. Acedillo

EXAMINATION	OSCE ITEMS	
SITTING	Inspection Posture □ Fingers rested in flexion normally □ Wartenburg's sign (5th digit abducted in ulnar injury) □ Clawing (flexion contracture – late ulnar injury) □ Dupytren's contracture (nodule in palm) □ Rotational deformities – better with fingers flexed (metacarpal and phalangeal deformities) Other □ Inflammation □ Skin and nails (paronychia, psoriatic pitting, clubbing, splinter hemorrhage, vasculitis in RA)	Muscle Bulk ☐ Thenar eminence ☐ Hypothenar eminence ☐ Interossei muscles (DAB and PAD!) Deformities ☐ Swan neck (RA – hyperext PIP, flexed DIP) and Boutenerrie deformities (RA – flexed PIP, hyperext DIP) ☐ Ulnar drift (as in RA) ☐ Mallet finger (flexed DIP b/c of traumatic avulsion of extensor digitorum tendon) ☐ Heberden's nodes (DIP – as in OA) and Bouchard's nodes (PIP – more as in RA)
	Palpation Skin nodules (as in Dupytren's disease) Bone tenderness (fractures or wrist ligament injuries) ☐ Ulnar and radial styloid (fractures) ☐ Lister's (dorsal tubercle of radius) and scaphoid tubercle ☐ Distal radioulnar joint (tenderness in radial head [Exxex-Lopresti lesion]/shaft [Galeazzi] fractures ☐ Lunate, pisiform, hook of hamate (fractures) ☐ Metacarpals and phalanges (fractures) ☐ MP, PIP, and DIP joints (RA, OA, injuries) ☐ Anatomical snuff box (scaphoid + trapezius)	 Tendons □ Extensor pollicis longus (ruptures in RA), abductor pollicis longus and extensor pollicis brevis (DeQuervain's tenosynovitis) □ Extensor tendons on dorsum of hand (commonly lacerated or ruptured in RA) □ Flexor carpi radialis (often lacerated) and palmaris longus (landmark for median nerve) □ Finger and thumb flexor tendons (trigger finger, lacerations, etc)
	Active ROM (if normal passive ROM not done) Wrist Flexion (80°) and extension (70°) Pronation (90°) and supination (90°) Radial deviation (20°) and ulnar deviation (30°) Fingers Flex each finger (triggering) Tip to palm distance, and finger tuck into palm Thumb opposition (bring thumb parallel to palm) Functional Grips	 Tendon Assessment ☐ Flexor digitorum superficialis (extend DIP's of 3 fingers, flex free finger) ☐ Flexor digitorum profundus (PIP's should be extended while DIP's are flexed) ☐ Extensor pollicis longus ☐ Extensor digitorum
	Power grips (cylinder, sphere, hook) Precision grips (pinch, 3 jaw chuck, lateral key grip) Neurological – Upper Extremity Sensory (two-point discrimination may be required) Strength Reflexes (biceps, triceps, brachioradialis) Vascular Assessment Radial pulse Ulnar pulse Allen's test (occlude both arteries, let go of one)	 Special Tests □ Phalen's test (hold wrists flexed together for 1 min) □ Tinel's test (tap median nerve in carpal tunnel) □ Finkelstein's test (make fist with thumb abducted and ulnar drift – look for DeQuervain's tenosynovitis) □ Thumb MP joint stability* (stabilize 1st metacarpal, apply knee-like stress with thumb +/- flexed = ulnar collateral ligament tear +/- volar plate tear) □ Rotational deformities (with fingers flexed, look for crossing of fingers indicating rotational deformities) * Looking for skier's thumb