Rheumatology



Hand Examination

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Position: sitting, patient's hands on a pillow.

Exposure: above the elbow.

Look	
Wrist and Forearm	 In Skin Look for: 3SARE Swellings, Scars, Scleroderma (T Tightness), Atrophy, Rashes and Erythema. In the Wrist look for: Swelling, Deformity, ulnar and Styloid prominence.
Dorsal Aspect of the Hand	 Look for: Any skin abnormality, swelling, Deformities. The presence of Ulnar Deviation and volar subluxation of the fingers. Characteristic deformities of Rheumatoid arthritis: Swan Neck, Boutonniere Deformity of the fingers and Z Deformity of the thumb. Characteristic Changes of Osteoarthritis: Heberden's Nodes, Bouchard's Nodes and Bunions. Sausage shape appearance of the phalanges. (Psoriatic atrophy or Reactive arthritis) Jaccoud's arthropathy (SLE) Telescoping fingers (arthritis mutilans) Resolution of finger tips (tapering fingers) Nails Pitting nails, ridging, onycholysis, hyperkeratosis: psoriasis Discoloration: Raynaud's phenomenon Digital infarction: scleroderma Splinter hemorrhage: SLE or IE
Palmar Aspect of the Hand	Look for: Scars, Palmar erythema, Muscle wasting (thenar or hypothenar eminence), Depuytren's Contracture and Telangiectasia)

Feel&Move	
Wrist	 For synovitis(boggy swelling) and effusion. Test for ulnar and radial deviation. Note any Tenderness, limitation in movement or joint crepitus. Paplate for ulnar styloid tenderness (Rheumatoid Arthritis), Radial styloid tenderness (De Quervain's tendenosynovitis) and Anatomical snuff box tenderness (1st carpometacarpal joint Arthritis)
Joints Movements	 Palpate the Metacarpophalangeal joints for any pain or tenderness Palpate Interphalangeal joints for tenderness, swelling or osteophytes (nodules). Test for Palmar tendon crepitus.(your finger on patients palmar surface and the patents flexes and extends the Metacarpophalangeal Joints). Test movement, first the wrist >> Thumb >> Metacarpophalangeal>> Interphalangeal.
Function	Active movement, note: Limitation, Instability, Joint crepitus.
Do the following	 Grip strength: give the patient a pen and ask him/her to squeeze it strongly. Key grip: the key is held between the pulps of the thumb and forefinger. Opposition strength. Practical test: ask the patient to undo a button or write with a pen. Measure the range of movements.

Special Tests	
Phalen's wrist flexion test	 if carpal tunnel syndrome is suspected, ask the patient to flex both wrists (dorsum on the dorsal, and the wrist should be in 90°) and the patient should wait for 30 second. Paraesthesia will often be precipitated in the affected hand in the distribution of the median nerve if the carpal tunnel syndrome is present.
Phalen's Reverse wrist flexion test	Same as the Above but reverse (tip of the fingers downward)
Tinel's test	 Tapping over the flexor retinaculum which lies at the proximal part of the palm. The test will be positive if there is paraesthesia in the tip of the patient's fingers.
Feeling for the subcutaneous nodules	near the elbow. These nodules are firm, non-tender and found over the olecranon or extensor surface.
Prayer sign	 ask the patient to bring the flat of the hands together to recognize contractures in the Metacarpophalangeal and Interphalangeal joints.
Table top test	 ask the patient to flatten the palm against the surface of the table. to recognize contractures in the Metacarpophalangeal joints.

Special tests:





