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interphalangeal (PIP) joints, four distal interphalangeal (DIP) joints, one interphalangeal joint (IP) in the thumb, and a distal radial ulnar joint (DRUJ). The triangular fibrocartilage complex (TFCC) is located between the distal ulna and carpal bones and acts as the primary stabilizer of the DRUJ. Normally the wrist functions in flexion, extension, and radial and ulnar deviation. Bony architecture of the hand and wrist. (A) Bones of the hand and digits. All rays have metacarpophalangeal (MP) joints. The fingers have proximal and distal interphalangeal joints (PIP and DIP), but the thumb has a single interphalangeal (IP) joint. (B) Bones of the wrist. The proximal row consists of the scaphoid, lunate, and capitate. The distal row bones articulate with the metacarpals: the trapezium with the thumb, the trapezoid with the index, the capitate with the middle, and the hamate with the ring and small. The pisiform bone is a sesamoid within the flexor carpi ulnaris tendon. It overlaps the triquetrum and hamate but does not contribute to a carpal row. CMC, carpometacarpal; TFCC, triangular fibrocartilage complex. (Reproduced with permission from Liffchez SD and Kelamis J. Surgery of the Hand and Wrist. In: Brunicaardi F, Andersen DK, Billiar TR, Dunn DL, Hunter JG, Matthews JB, Pollock RE, eds. Schwartzs Principles of Surgery, 10e New York, NY: McGraw-Hill; 2015.) This is syndrome is the most common peripheral mononeuropathy. The carpal tunnel is a fixed space surrounded by the flexor retinaculum and contains nine flexor tendons and the median nerve. Being a fixed space, any inflammatory or mechanical process leads to median nerve compression and furthers the cycle of inflammation. Patients typically present with pain and paresthesia in the median nerve distribution (radial three and a half digits of the hand), with symptoms most prominent at night. Electrophysiologic studies are diagnostic and helpful in determining severity of nerve damage. Risk factors include female gender, pregnancy, metabolic disorders, repetitive stress, and prior wrist fracture. Conservative treatment includes activity modification, night splinting, anti-inflammatory medications/modalities, nerve-stabilizing medications, and corticosteroid injections. Surgical intervention with carpal tunnel release is indicated for cases unresponsive to conservative measures or those with neural deficits. Osteoarthritis (OA) at the first CMC joint (base of the thumb) is the most common arthropathy of the wrist/hand. Diagnosis is established by symptom location, grind test (pain with axial loading of thumb CMC joint), and correlation with x-ray. De Quervains (first extensor compartment) tenosynovitis should be included in the differential diagnosis. Treatment includes anti-inflammatory medications and modalities, thumb splinting, and corticosteroid injection. Surgical reconstruction or fusion may be necessary. The wrist and hand can be affected by both rheumatoid and osteoarthritis. In rheumatoid arthritis symmetrical swelling of the MCP and PIP joints occurs. Long-standing disease results in ulnar deviation of the fingers, dorsal subluxation of the ulna, ulnar styloid erosion, and finger deformities. X-rays demonstrate periarticular osteopenia and erosions. Conversely, osteoarthritis is a noninflammatory process that results in articular cartilage deterioration and osteophytes at the bone margins. Patients can exhibit Heberdens nodules at the DIP joints and Bouchards nodules at the PIP joints (Fig. 43). There is usually tenderness over the affected joint and crepitus with range of motion, but stiffness often improves with 10 to 15 minutes of motion. Plain films aid in diagnosis, but are often not necessary. Treatment for all forms of hand arthritis includes lifestyle modification, nonsteroidal anti-inflammatory drugs (NSAIDs), bracings, and therapy. For inflammatory (rheumatoid) arthritis disease-modifying antirheumatic drugs (DMARDs)/biologic agents and joint replacement are common treatments. Only gold members can continue reading. Log In or Register to continue

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