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# **ELECTIVE HAND SURGERY**

**Rheumatological and Degenerative Conditions,  
Nerve Compression Syndromes**

Editors

**Michel Merle • Aymeric Lim**

# ELECTIVE HAND SURGERY

## Rheumatological and Degenerative Conditions, Nerve Compression Syndromes

edited by **Michel Merle** (*Hôpital Kirchberg, Luxembourg*) & **Aymeric Lim** (*National University Hospital, Singapore*)

The volume contains essential information on elective (non-emergency) hand surgery practice. The author, M Merle, a world authority in surgery of the rheumatoid hand, synthesizes the depth of his experience into the book, and presents the management of these conditions in a clear manner. All the elective procedures are described in great detail and depth. The quality of the illustrations is outstanding.

There are very few textbooks on elective hand surgery and this will be an essential resource for hand surgeons, orthopedic surgeons, plastic surgeons, rheumatologists and physiotherapists.

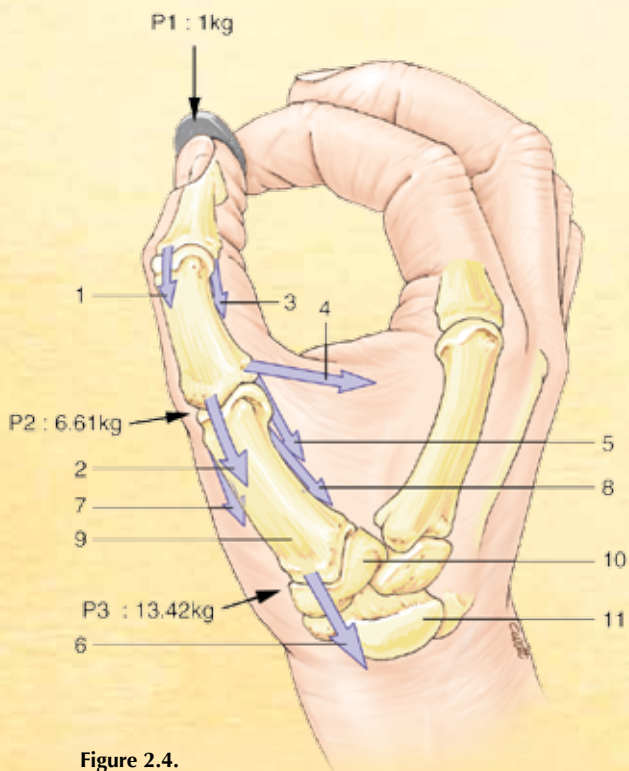
**Contents: Osteoarthritis of the Hand and Wrist:** Wrist Osteoarthritis (*M Merle & Ph Voche*); Trapeziometacarpal Joint Arthritis (*M Merle*); Osteoarthritis of the Digital Joints (*M Merle & L Vaienti*); **Rheumatoid Arthritis of the Hand and Wrist:** Rheumatoid Arthritis

(*A Y N Lim & J N Tamisier*); Rheumatoid Wrist (*M Merle*); Finger Deformities in Rheumatoid Arthritis (*M Merle*); Rehabilitation and Assistive Devices for the Rheumatoid Hand and Wrist (*M Isele et al.*); **Degenerative and Other Hand Conditions:** Dupuytren's Disease (*M Merle*); Lateral Elbow Pain (*C Camps*); Raynaud's Syndrome (*M Lahiri et al.*); **Nerve Compression Syndromes:** Thoracic Outlet Syndrome (*M Merle & J Borrelly*); Compression of the Ulnar Nerve (*C Camps et al.*); Compression of the Median Nerve (*E Y Lee et al.*); Compressive of the Radial Nerve (*M Merle et al.*).

**Readership:** Hand surgeons, orthopedic surgeons, plastic surgeons, rheumatologists, occupational therapist and physiotherapists.

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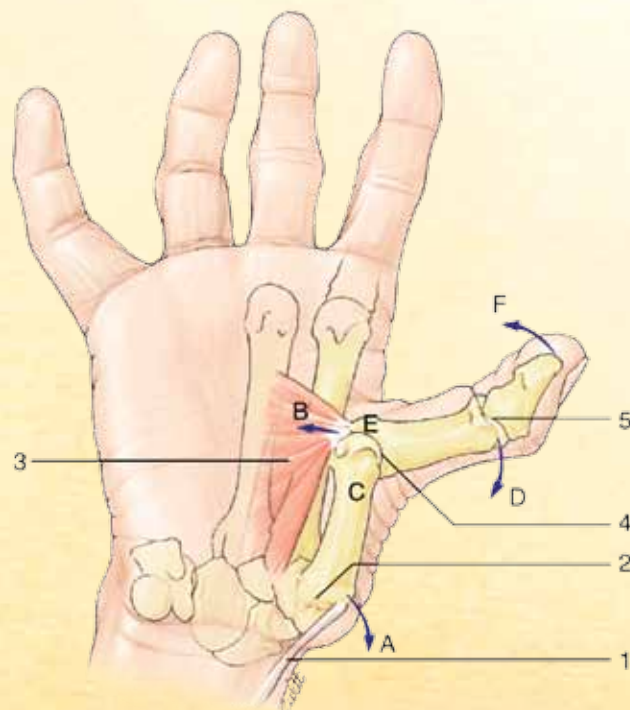
### Picture Illustrations from the book:



**Figure 2.4.**

Distribution of the forces on the joints of the thumb for a pinch of 1 kg (F1) between the thumb and index. A force (F2) of 6.61 kg acts on the metacarpophalangeal joint and a force (F3) of 13.42 kg on the trapeziometacarpal joint. Action of the 8 muscles contributing to the mobility and stability of the thumb.

- (1) Extensor pollicis longus (EPL). (2) Extensor pollicis brevis (EPB). (3) Flexor pollicis longus (FPL). (4) Adductor (AP). (5) Flexor pollicis brevis (FPB). (6) Abductor pollicis longus (APL). (7) Abductor pollicis brevis (APB). (8) Opponens (OP). (9) First metacarpal. (10) Trapezium. (11) Scaphoid.

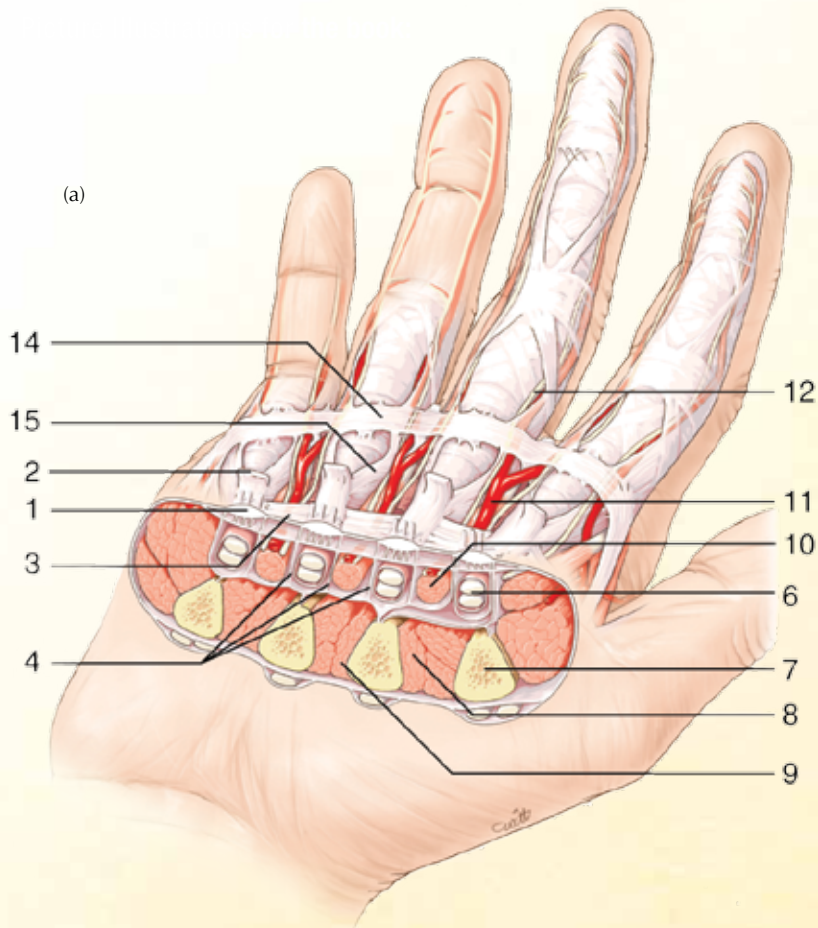


**Figure 2.5.**

Trapeziometacarpal arthritis, final stage. Adducted or "M" thumb. The progressive subluxation of the trapeziometacarpal joint is caused by the degradation of the capsuloligamentous apparatus and of the action of the abductor pollicis longus (APL).

- (1) The deformity causes a step in the joint (sign of Forestier). (2) The first web contracts under the action of the adductor. (3) The first metacarpal becomes parallel to the second. Large objects can only be taken with the hyperextension of the metacarpophalangeal joint. (4) Lateral constraints on the thumb MP cause the elongation of the ulnar collateral ligament. (5) Fine grip is done with flexion of the thumb IP.

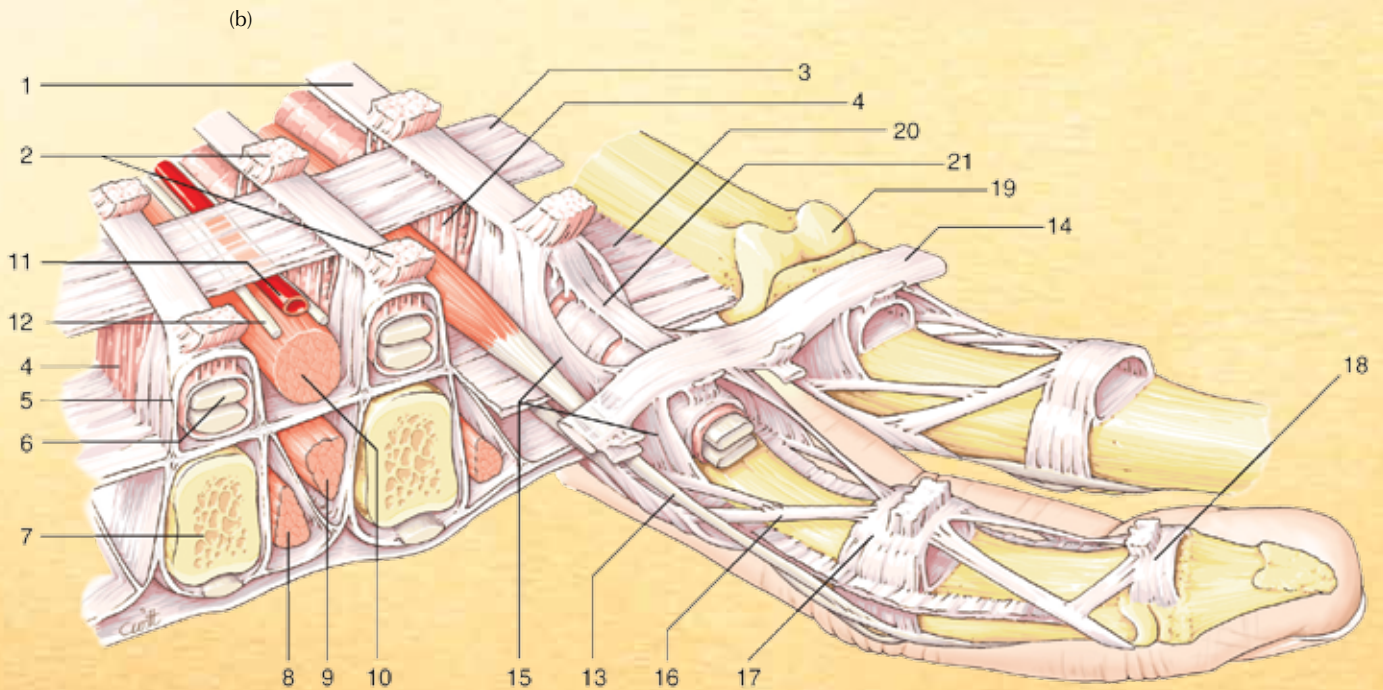
More Picture Illustrations from the book:



**Figure 8.5.**

The septa of Legueu and Juvara and the anatomical organization at the base of the fingers.

At the base of the fingers, the palmar aponeurosis divides into three. (1) Pretendinous band. (2) Insertion of vertical fibers into the dermis. (3) Superficial transverse ligament. (4) The septa of Legueu and Juvara. (5) A1 Pulley. (6) Deep and superficial flexor tendons. (7) Metacarpal. (8) Dorsal interosseous. (9) Palmar interosseous. (10) Lumbrical. (11) Digital artery. (12) Digital nerve. (13) Tendon of the lumbrical. (14) Natatory ligament. (15) Sagittal band. (16) Spiral band. (17) A3 Pulley. (18) A5 Pulley. (19) Metacarpophalangeal articulation. (20) Intermetacarpal ligament. (21) Insertion of the longitudinal fibers arising from the pretendinous band on the natatory ligament.

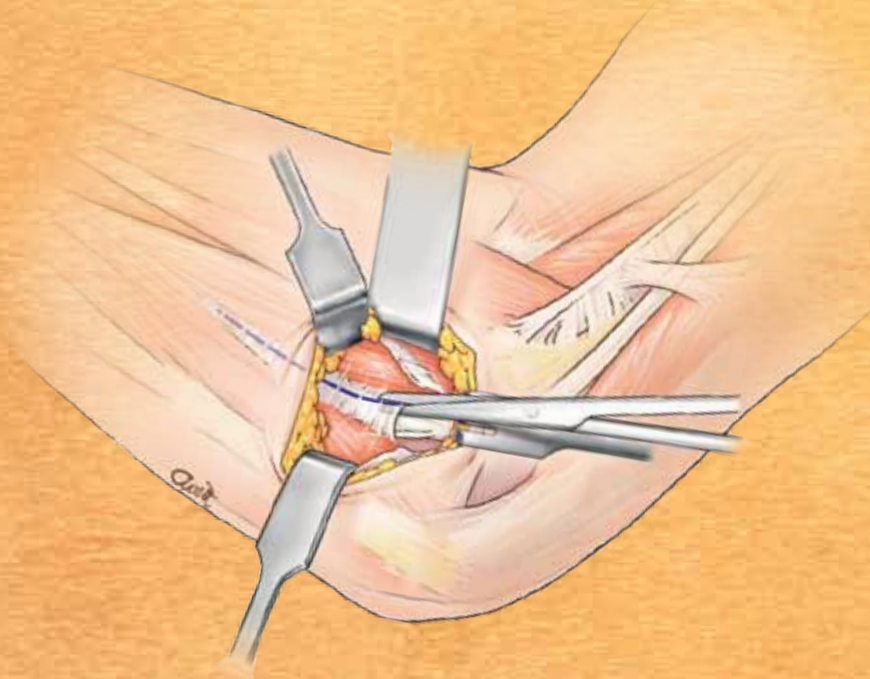


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