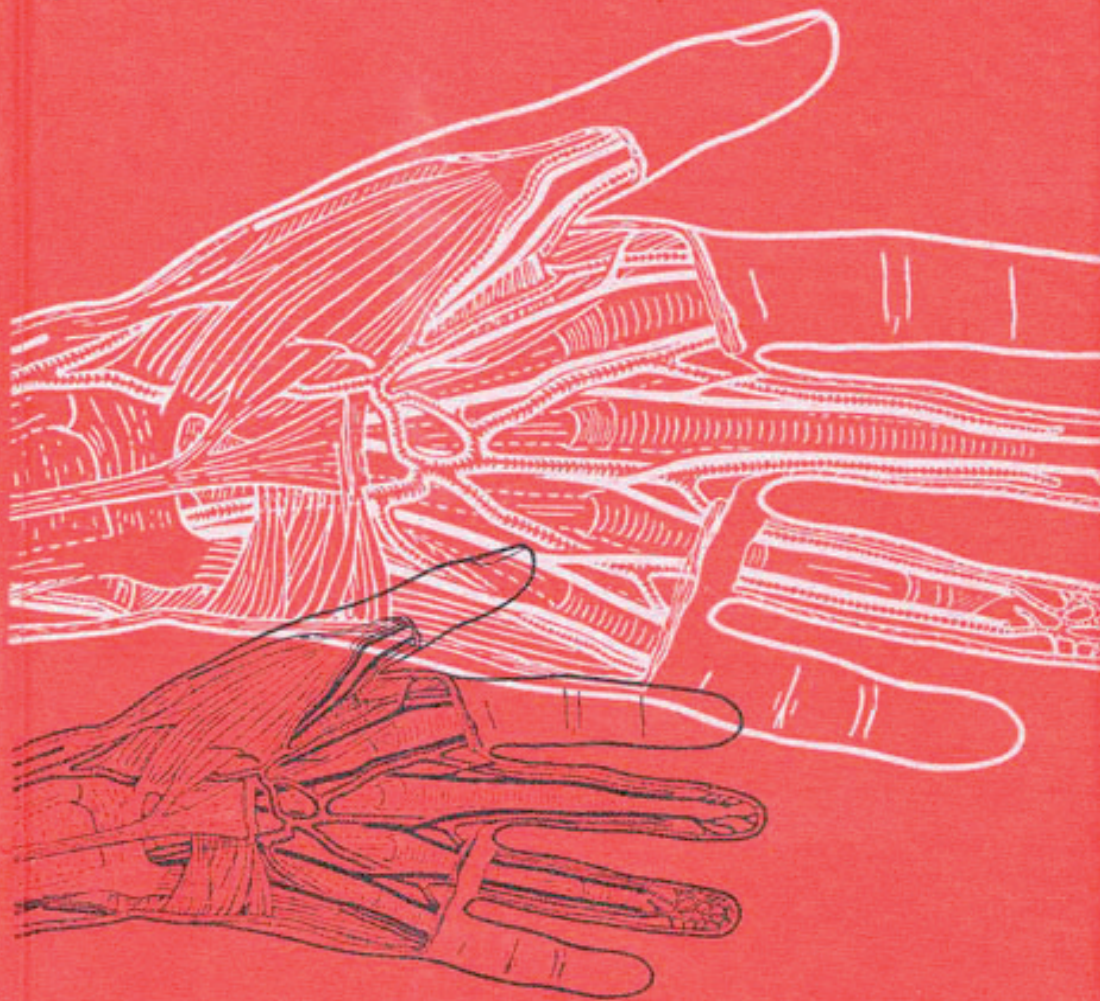


Hand Surgery

J. EDWARD FLYNN, M.D.



CONTENTS

Foreword	ix
Preface	xiv
List of Contributors	v
1. History of Hand Surgery. <i>By Henry C. Marble, M.D.</i>	1
2. Anatomy and Kinesiology of the Hand. <i>By Emanuel B. Kaplan, M.D.</i>	11
3. Congenital Anomalies. <i>By J. Edward Flynn, M.D.</i>	29
4. Pre- and Postoperative Care in Surgery of the Hand. <i>By John H. Crandon, M.D.</i>	42
5. Anesthesia for Hand Surgery. <i>By Leroy D. Vandam, M.D.</i>	55
6. Injuries	75
Open Wounds. <i>By J. Edward Flynn, M.D.</i>	75
Crush, Mangle, and Cornpicker Injuries of the Hand. <i>By Robert M. McCormack, M.D., F.A.C.S.</i>	84
Washing Machine Wringer Roller Injuries of the Upper Extremities. <i>By Vinton E. Siler, M.D., F.A.C.S.</i>	94
Special Wounds. <i>By Stephen W. Meagher, M.D.</i>	106
7. Injuries to Bones	119
Fractures of the Hand and Wrist. <i>By Charles H. Bradford, M.D., and James A. Dolphin, M.D.</i>	K 119
Fractures of the Epiphyses of the Upper Extremity. <i>By Alexander P. Aitken, M.D.</i>	161
8. Injuries to Tendons	184
Technique of Tendon Repair. <i>By Elden C. Weckesser, M.D.</i>	184
Healing with Tendon Suture and Tendon Transplants. <i>By J. Edward Flynn, M.D., and James H. Graham, M.D.</i>	195
Evaluation of Results of Tendon Repair. <i>By Elden C. Weckesser, M.D.</i>	211
Primary and Secondary Repair of Flexor and Extensor Tendon Injuries. <i>By Claude E. Verdan.</i>	220
Tendon Ruptures of the Upper Extremity. <i>By H. Minor Nichols, M.D., M.Sc. F.A.C.S.</i>	275
Flexor Tendon Grafting. <i>By R. Guy Pulvertaft, M.A., M.B., B.Ch. Cantab., F.R.C.S. Eng.</i>	297
Tendon Transfer in the Arm. <i>By Leo Mayer, M.D.</i>	315
Tendon Transfers in the Forearm. <i>By Paul W. Brand, F.R.C.S. (Eng.)</i>	331
9. Injuries to Joints	343
Dislocations of the Upper Extremity. <i>By Paul I. O'Brien, M.D.</i>	343
Joints of the Hand. <i>By Raymond M. Curtis, M.D.</i>	350
Surgery of the Rheumatoid Hand. <i>By Paul R. Lipscomb, M.D.</i>	376
The Upper Extremity in Gout. <i>By Robert A. Chase, M.D.</i>	401
Occupational Therapy. <i>By Arthur L. Watkins, M.D.</i>	408
10. Injuries to Nerves	415
Peripheral Nerve Injuries in the Hand: General Considerations. <i>By William F. Flynn, M.D.</i>	415
Methods for Examining Sensibility of the Hand. <i>By Erik Moberg, M.D.</i>	435
Electromyography and Other Electrical Aids to Diagnosis. <i>By Derek Denny-Brown, M.D.</i>	450
The Management of Peripheral Nerve Injury Producing Hand Dysfunction. <i>By Frank E. Nulsen, M.D., F.A.C.S.</i>	457

Medial and Ulnar Nerve Injuries at the Wrist: A Long Range Study with Evaluation of Sensory and Motor Return. <i>By J. Edward Flynn, M.D., and William F. Flynn, M.D.</i>	482
Compression Neuropathies. <i>By Radford C. Tanzer, M.D.</i>	487
11. Stenosing Tenosynovitis: Trigger Fingers and Trigger Thumb, Quervain's Disease, Acute Calcification in Wrist and Hand. <i>By George S. Phalen, M.D.</i>	501
12. Amputations.....	517
Upper Extremity Amputation. <i>By Donald B. Slocum, M.D.</i>	517
Traumatic Amputations of the Fingertips. <i>By Henry Byrne, M.B., and Patrick Clarkson, M.B.</i>	543
Reconstruction of the Thumb. <i>By Erle E. Peacock, M.D.</i>	561
Toe-Hand Transfers. <i>By Patrick Clarkson, M.B.</i>	583
13. Burns and Frostbites.....	597
Radiation Burns. <i>Frederik C. Hansen, M.D., and M. T. Edgerton, M.D.</i>	597
Electric Burns of the Upper Extremity. <i>By G. Kenneth Lewis, M.D.</i>	614
Thermal Burns of the Hands. <i>By Bradford Cannon, M.D., and Joseph E. Murray, M.D.</i>	647
Frostbite. <i>By Henry H. Faxon, M.D.</i>	668
14. Vascular Disorders.....	677
Vascular Disorders of the Hand. <i>By Ralph A. Deterling, Jr., M.D.</i>	677
Lymphatics of the Upper Limb. <i>By John B. Laine, M.B., and John M. Howard, M.D.</i>	701
Treatment of Lymphedema of the Upper Extremity. <i>By Herbert Conway, M.D., and James W. Smith, M.D.</i>	717
Microsurgical Repair of Blood Vessels and Peripheral Nerves. <i>By James W. Smith, M.D., and J. H. Jacobson, II, M.D.</i>	729
Reflex Dystrophies of the Hand. <i>By Frank H. Mayfield, M.D.</i>	738
Thermal Measurement of the Hand. <i>By Stephen W. Meagher, M.D.</i>	751
15. Infections.....	757
Bacteriology, Chemotherapy, and Antibiotic Therapy. <i>By Chester W. Howe, M.D.</i>	757
Lesser Infections of the Hand. <i>By John H. Crandon, M.D.</i>	803
The Grave Infections. <i>By J. Edward Flynn, M.D.</i>	815
Special Infections of the Hand. <i>By John M. Cahill, M.D.</i>	832
Tuberculosis. <i>By J. Edward Flynn, M.D.</i>	846
Fungus Infections of the Hand. <i>By Feung B. Lee, M.D.</i>	853
Tetanus. <i>By Louis Weinstein, M.D., and Phillip I. Lerner, M.D.</i>	860
16. Diseases of the Nails: Importance in Proper Diagnosis. <i>By Cleveland J. White, M.D.</i>	873
17. Contractures.....	888
Splinting. <i>By Elden C. Weckesser, M.D.</i>	888
Surface Flexion Contractures. <i>By Franklin L. Ashley, M.D., and George V. Webster, M.D.</i>	898
Adduction Contracture of the Thumb. <i>By J. Edward Flynn, M.D.</i>	910
Dupuytren's Contracture. <i>By Robert D. Larsen, M.D.</i>	922
Volkmann's Ischemic Contracture. <i>By J. Leonard Goldner, M.D.</i>	953
Intrinsic and Extensor Contracture of the Hand due to Ischemia and Other Conditions. <i>By J. Leonard Goldner, M.D.</i>	978
18. Industrial Accidents. <i>By J. Edward Flynn, M.D.</i>	993
19. Tumors.....	999
Soft Tissue Tumors of the Hand. <i>By Joseph L. Posch, M.D.</i>	999
Tumors of the Hand Skeleton. <i>By Robert E. Carroll, M.D.</i>	1027
Tumors of the Blood and Lymphatic Vessels. <i>By Raymond M. Curtis, M.D.</i>	1040
Nerve Tumors. <i>By John J. Byrne, M.D.</i>	1062
Index.....	1075