

Contents

Section I Basic Principles of Hand Function

- 1 **Functional Anatomy and Biomechanics of the Hand** 3
Ton A.R. Schreuders, J. Wim Brandsma,
and Henk J. Stam
- 2 **Physical Examination of the Hand** 23
Fitnat Dincer and Gulbuz Samut
- 3 **Assessment of Hand Functions** 41
Mehmet Tuncay Duruöz

Section II Hand Function Assessment in Clinical Practice

- 4 **Hand Function in Rheumatoid Arthritis** 55
Janet L. Poole
- 5 **Hand Function in Osteoarthritis** 63
Roy D. Altman
- 6 **Hand Function in Scleroderma**..... 71
Angela Del Rosso, Susanna Maddali-Bongi,
and Marco Matucci-Cerinic
- 7 **Functional Assessment in Hand with Flexor
and Extensor Tendon Injuries**..... 91
K. Banu Kuran
- 8 **Hand Function in Stroke** 107
Osman Hakan Gündüz and Özün Bayindir
- 9 **Hand Function in Tetraplegia**..... 115
Şafak Sahir Karamehmetoğlu and Tuğçe Özekli Misirlioğlu
- 10 **Hand Function in Parkinson's Disease** 133
Jamie R. Lukos, Howard Poizner, and Jacob I. Sage
- 11 **Hand Function in Children with Congenital Disorders** 151
Monique S. Ardon and Anneke Hoekstra-Lopez-Villamil

12	Hand Function in Juvenile Idiopathic Arthritis	163
	Erbil Ünsal	
13	Hand Function in Geriatric Conditions	171
	Nurgül Arıncı İncel	
14	Hand Function in Common Hand Problems	185
	Lynn H. Gerber	
15	Hand Function in Metabolic Disorders: Hemodialysis, Diabetes Mellitus, and Gout	201
	Feray Soyupek and Selami Akkuş	
 Section III Hand Function and Imaging Outcomes		
16	Hand Function and Imaging Outcomes	211
	Atulya A. Deodhar	
	Appendix 1: ABILHAND (Manual Ability Measure)	225
	Appendix 2: Boston Questionnaire (Brigham and Women's Carpal Tunnel Questionnaire/The Carpal Tunnel Syndrome Instrument)	227
	Appendix 3: Duruöz Hand Index (DHI)	229
	Appendix 4: Hand Mobility in Scleroderma (HAMIS) Test	231
	Appendix 5: Hand Functional Index (HFI)	233
	Appendix 6: Michigan Hand Outcomes Questionnaire (MHQ)	235
	Appendix 7: Quick-DASH (The Disabilities of the Arm, Shoulder and Hand)	241
	Index	243