

Contents

1	Introduction	1		Systematic Classification	69
	Evolution	1		Functional Units	72
	Hand and Brain	2		Carpal Kinematics	73
	Handedness	2		References	77
	Nomenclature	2		Neurovascular Structures	
	Anatomic Variability	3		in the Wrist Joints	80
	References	3		References	82
2	Development of the Hand	5	4	Distal Forearm and Thenar	83
	References	8		Skin and Superficial Vessels and Nerves	83
3	Distal Forearm, Wrist, and Palm	9		Vascular Structures	83
	Skin and Superficial Nerves	9		References	83
	References	15		Nerves	84
	Arteries	17		References	84
	References	17	5	Thumb	85
	Superficial and Deep Lymph Drainage	19		Skin	85
	Superficial Lymph Vessels	19		References	85
	Deep Lymph Vessels	20		Neurovascular Structures	86
	References	20		References	89
	Flexor Carpi Radialis	21		Muscles	90
	References	23		References	96
	Tendon Sheaths in the Carpal Tunnel	24		Tendons and Tendon Sheaths	97
	References	27		References	104
	Carpal Canal	29		Bones	105
	Flexor Retinaculum	29		References	105
	Carpal Tunnel	30		Joints	106
	Median Nerve	35		Carpometacarpal Joint of the Thumb	106
	References	41		Metacarpophalangeal Joint of the Thumb	109
	Wrist	44		Interphalangeal Joint of the Thumb	112
	Carpal Bones	44		References	113
	References	52	6	Distal Forearm, Wrist, and	
	Interosseous Membrane of the Forearm	53		Hypothenar Eminence	115
	References	54		Skin	115
	Triangular Fibrocartilage Complex	55		Loge de Guyon	115
	References	60		References	115
	Wrist Joints	62		References	119
	Radiocarpal Joint	63		Nerves	122
	Midcarpal Joint	64		References	123
	Intercarpal Joints	65		Muscles	124
	Second Through Fifth Carpometacarpal			References	127
	and Intermetacarpal Joints	65			
	Carpal Ligament System	68			

7	Palm	129	References	185
	Skin	129	Tendon Sheaths	186
	References	129	References	191
	Palmar Aponeurosis	130	Tendons	193
	Palmaris Longus	133	References	199
	Palmaris Brevis	133	Finger Bones	201
	References	135	References	204
	Midpalmar Space	136	Finger Joints	205
	References	138	Proximal Interphalangeal Joint	205
	Arterial Arches	139	Distal Interphalangeal Joint	209
	Superficial Palmar Arch	139	References	212
	Deep Palmar Arch	139		
	References	143	10 Distal Forearm, Wrist, and Dorsum	
	Intrinsic Muscles	144	of the Hand	213
	Lumbricals	144	Skin	213
	Interossei	147	References	214
	References	152	Fascias and Superficial Neurovascular	
	Metacarpals	153	Structures	215
	References	155	References	221
	Architecture of the Metacarpal Region	156	Lymph Drainage	222
	References	157	References	222
			Dorsal Compartments	223
8	Distal Palm and Proximal Fingers	159	References	230
	Skin	159	Tendons	231
	References	160	References	238
	Neurovascular Structures	161		
	References	163	11 Dorsal Aspect of Finger	241
	Metacarpophalangeal Joints	164	Skin and Superficial Neurovascular	
	References	172	Structures	241
			References	242
9	Palmar Aspect of Finger	173	Extensor Apparatus of the Finger	243
	Skin	173	References	246
	References	176	Nail Structures	248
	Cutaneous Ligaments	178	References	252
	References	180		
	Neurovascular Structures	181	Index	255