

Contents

1 Basic Principles	3	Local Palpation—Anterolateral	40
Why Do Clinicians Need Surface Anatomy?	3	Study Questions	50
What Is Understood by Surface Anatomy in this Book?	3	3 Elbow Complex	53
Where Can Surface Anatomy Be Used?	3	Significance and Function of the Elbow Complex	53
Components in the Assessment of a Joint or Section of the Spine	3	Common Applications for Treatment in this Region	53
Orientation Before the Application of Special Assessment and Treatment Techniques	4	Required Basic Anatomical and Biomechanical Knowledge	53
Basis for the Local Treatment of Tendons, Bursae, etc.	4	General Orientation—Anterior	57
Clinical Relevance	4	Local Palpation—Anterior	57
Characteristics of Palpation	4	Local Palpation—Medial	61
When Is Surface Anatomy Applied?	5	Local Palpation—Lateral	67
Prerequisites	5	General Orientation—Posterior Humerus	74
Anatomical/Topographical Background	5	Study Questions	76
Precise Palpation as a Process	5	4 Hand	79
Experience	6	Significance and Function of the Hand	79
Palpation Techniques and Resistances	6	Common Applications for Treatment in this Region	80
Central Aspects of the Procedure	6	Required Basic Anatomical and Biomechanical Knowledge	81
Pressure Applied during Palpation	6	General Orientation—Dorsal	85
Palpatory Techniques	7	Local Palpation of the Dorsal Soft Tissues	89
Palpating Bony Edges	7	Local Palpation of the Dorsal Aspect of the Carpals	93
Palpating Bony Prominences	8	General Orientation—Palmar	99
Palpating Muscle Bellies	8	Local Palpation of the Palmar Soft Tissues	100
Palpating the Edge of Muscles	9	Local Palpation of the Palmar Aspect of the Carpals	103
Palpating Tendons	9	Study Questions	110
Palpating Ligaments	10	5 Hip and Groin Region	113
Palpating Capsules	11	Significance and Function of the Hip and Groin Region	113
Palpating Bursae	11	Common Applications for Treatment in this Region	113
Palpating Peripheral Nerves	12	Required Basic Anatomical and Biomechanical Knowledge	113
Palpating Blood Vessels (Arteries)	12	Local Palpation—Lateral	118
Palpation Aids	13	Local Palpation—Dorsal	120
Guiding Structures	13	Local Palpation—Anterior	122
Connecting Lines	13	Study Questions	131
Supporting Measures for Confirming a Palpation	13	6 Knee Joint	135
Marking Structures	14	Significance and Function of the Knee Joint	135
Starting Positions for Practice (Practice SPs)	14	Common Applications for Treatment in this Region	136
Study Questions	15	Required Basic Anatomical and Biomechanical Knowledge	136
2 Shoulder Complex	19		
Significance and Function of the Shoulder Region	19		
Common Applications for Treatment in this Region	19		
Required Basic Anatomical and Biomechanical Knowledge	20		
General Orientation—Posterior	22		
Local Palpation—Posterior	24		
Local Palpation—Lateral	31		
General Orientation—Anterior	37		
Local Palpation—Anteromedial	38		

Contents

Palpating an Increase in Temperature	140	Required Basic Anatomical and Biomechanical Knowledge	263
Palpating Edema	141	Summary of the Palpatory Process	278
Local Palpation—Anterior	142	Starting Position	278
Local Palpation—Medial	147	Difficult and Alternative Starting Positions	279
Local Palpation of the Anteromedial Soft Tissues	149	Palpation Techniques	279
Local Palpation—Lateral	155	Tips for Assessment and Treatment	284
Local Palpation—Posterior	162	Study Questions	289
Study Questions	165		
7 Foot	169	11 Thoracic Spine and Thoracic Cage	293
Significance and Function of the Foot	169	Significance and Function of the Thoracic Region	293
Common Applications for Treatment in this Region	171	Common Applications for Treatment in this Region	294
Required Basic Anatomical and Biomechanical Knowledge	172	Required Basic Anatomical and Biomechanical Knowledge	295
Local Palpation of the Medial Border of the Foot	174	Summary of the Palpatory Process	304
Local Palpation of the Lateral Border of the Foot	183	Starting Position	304
Local Palpation of the Dorsum of the Foot	191	Difficult and Alternative Starting Positions	304
Local Palpation of the Distal Posterior Leg	196	Posterior Palpation Techniques	304
Study Questions	199	Anterior Palpation Techniques	322
		Study Questions	333
8 Soft Tissues	203	12 Cervical Spine	337
Significance and Function of Soft Tissues	203	Significance and Function of the Cervical Spine	337
Common Applications for Treatment in this Region	203	Common Applications for Treatment in this Region	337
Required Basic Anatomical and Biomechanical Knowledge	203	Required Basic Anatomical and Biomechanical Knowledge	338
Summary of the Palpatory Process	204	Summary of the Palpatory Process	352
Starting Position	206	Starting Position	352
Difficult and Alternative Starting Positions	206	Difficult and Alternative Starting Positions	354
Palpation Techniques	207	Posterior Palpation Techniques	354
Tips for Assessment and Treatment	211	Lateral Palpation Techniques	370
Examples of Treatment	213	Anterior Palpation Techniques	381
Study Questions	219	Study Questions	386
		13 Head and Jaw	389
9 Posterior Pelvis	223	Introduction	389
Significance and Function of the Pelvic Region	223	Significance and Function of the Temporomandibular Joint	389
Common Applications for Treatment in this Region	223	Common Applications for Treatment in this Region	389
Required Basic Anatomical and Biomechanical Knowledge	225	Required Basic Anatomical and Biomechanical Knowledge	389
Summary of the Palpatory Process	233	Anatomy of the Bony Skull	390
Palpatory Techniques for Quick Orientation on the Bones	234	Palpation of the Bony Skull	390
Palpatory Procedure for Quick Orientation on the Muscles	237	The Jaw—Temporomandibular Joints	391
Local Palpation Techniques	241	Palpating the Temporomandibular Joints	394
Orienting Projections	249	Palpatory Examination of the Jaw Muscles	395
Local Palpation of the Pelvic-Trochanter Region	253	Study Questions	405
Tips for Assessment and Treatment	257		
Study Questions	258		
10 Lumbar Spine	261		
Significance and Function of the Lumbar Spine	261		
Common Applications for Treatment in this Region	262		