

Foreword or Why is Memorix Anatomy revolutionary?	XII
Memorix Education System	XV
Acknowledgements to co-workers	XVI
Acknowledgements to student organisations	XVIII
Memorix team	XX

1 General anatomy 1

1 Definitions and history	2	8 Terms of location and direction of the human body	9
2 Terms and abbreviations	3	9 Parts of the human body	10
3 Histology	4	10 Regions of the human body	11
4 Embryology	5	11 Eponyms	12
5 Anatomical changes in childhood	6	12 Review questions and figures	14
6 Anatomical changes in puberty	7	13 Acknowledgements and references	16
7 Planes and lines of the human body	8		

2 Bones 17

1 General overview	18	5 Bones of the upper limb – Ossa membri superioris	42
2 Skull – Cranium	21	5.1 Clavicle (collarbone) – Clavicula	42
2.1 Frontal bone – Os frontale	22	5.2 Scapula (shoulder blade) – Scapula	43
2.2 Occipital bone – Os occipitale	23	5.3 Humerus – Humerus	44
2.3 Sphenoidal bone (sphenoid) – Os sphenoidale	24	5.4 Ulna (elbow bone) – Ulna	45
2.4 Parietal bone – Os parietale	26	5.5 Radius (radial bone) – Radius	46
2.5 Temporal bone – Os temporale	27	5.6 Bones of the hand – Ossa manus	47
2.6 Ethmoidal bone (ethmoid) – Os ethmoidale	30	6 Bones of the lower limb – Ossa membri inferioris	48
2.7 Inferior nasal concha – Concha nasalis inferior	30	6.1 Pelvis – Pelvis	49
2.8 Lacrimal bone, nasal bone and vomer – Os lacrimale, os nasale et vomer	31	6.1.1 Hip bone (pelvic bone) – Os coxae	50
2.9 Zygomatic bone – Os zygomaticum	31	6.2 Femur (thigh bone) – Femur	52
2.10 Palatine bone – Os palatinum	32	6.3 Patella (kneecap) – Patella	53
2.11 Maxilla – Maxilla	33	6.4 Tibia (shinbone) – Tibia	53
2.12 Mandible – Mandibula	34	6.5 Fibula (calf bone) – Fibula	54
2.13 Hyoid bone – Os hyoideum	35	6.6 Bones of foot – Ossa pedis	54
2.14 Skull of a newborn	35	7 Figures	57
2.15 Skull anthropometry	36	7.1 Cranial base	57
3 Vertebral column – Columna vertebralis	37	8 Tables	58
3.1 Cervical vertebrae – Vertebrae cervicales	38	8.1 Openings of the skull and their content	58
3.2 Thoracic vertebrae – Vertebrae thoracicae	39	8.2 Structures of the upper limb	60
3.3 Lumbar vertebrae – Vertebrae lumbales	39	8.3 Structures of the lower limb	62
3.4 Sacrum and coccyx – Os sacrum et os coccygis	40	9 Review questions and figures	64
4 Thorax – Thorax	41	10 Acknowledgements and references	66

3 Joints 67

1 General overview	68	6 Joints of the lower limb – Juncturae membri inferioris	82
1.1 General organisation of the synovial joint	69	6.1 Sacro-iliac joint – Articulatio sacroiliaca	82
2 Joints of the skull – Juncturae cranii	72	6.2 Synarthroses of the pelvic girdle – Synarthroses cinguli pelvici	82
3 Vertebral joints – Juncturae columnae vertebralis	73	6.3 Hip joint – Articulatio coxae	83
3.1 Vertebral synovial joints – Articulationes columnae vertebralis	74	6.4 Knee joint – Articulatio genus	84
4 Thoracic joints – Juncturae thoracis	75	6.5 Tibiofibular joint – Articulatio tibiofibularis	86
5 Joints of the upper limb – Juncturae membri superioris	76	6.6 Interosseous membrane of the leg and tibiofibular syndesmosis – Membrana interossea cruris et syndesmosis tibiofibularis	86
5.1 Sternoclavicular joint – Articulatio sternoclavicularis	76	6.7 Joints of the foot – Articulationes pedis	86
5.2 Acromioclavicular joint – Articulatio acromioclavicularis	76	6.7.1 Arches of the foot	86
5.3 Shoulder (glenohumeral) joint – Articulatio humeri (glenohumeralis)	77	7 Tables	90
5.4 Elbow joint – Articulatio cubiti	78	7.1 Movements of the head, neck and temporomandibular joint (muscles)	90
5.5 Distal radio-ulnar joint and radio-ulnar syndesmosis – Articulatio radioulnaris distalis et syndesmosis radioulnaris	79	7.2 Movements of the limbs (degree of freedom)	91
5.6 Wrist joint – Articulatio radiocarpalis	79	7.3 Movements of the upper limb (muscles)	92
5.7 Joints of the hand – Articulationes manus	80	7.4 Movements of the lower limb (muscles)	93
		8 Review questions and figures	94
		9 Acknowledgements and references	96

4

Muscles

1 General overview	98	8.3 Muscles of the forearm – Musculi antebrachii	136
2 Muscles of the head – Musculi cranii	102	8.3.1 Anterior group	137
2.1 Facial muscles – Musculi faciei	102	8.3.2 Lateral group	139
2.2 Masticatory muscles – Musculi masticatorii	108	8.3.3 Posterior group	140
2.3 Fasciae of the head	109	8.4 Muscles of the hand – Musculi manus	142
3 Muscles of the neck – Musculi colli	110	8.4.1 Muscles of the thenar eminence (thumb group)	143
3.1 Superficial muscle group – Musculi colli superficiales	111	8.4.2 Muscles of the hypothenar eminence (little finger group)	144
3.2 Suprahyoid muscles – Musculi suprahyoidei	112	8.4.3 Interossei and lumbricals	145
3.3 Infrahyoid muscles – Musculi infrahyoidei	113	8.5 Tendinous sheaths of the upper limb	
3.4 Scaleni – Musculi scaleni	114	– Vaginae tendinum membri superioris	146
3.5 Deep muscle group – Musculi colli profundi	115	8.6 Fasciae of the upper limb	147
3.6 Cervical fascia – Fascia cervicalis	115	9 Muscles of the lower limb – Musculi membri inferioris	148
4 Muscles of the back – Musculi dorsi	116	9.1 Muscles of the hip joint	148
4.1 Superficial layer (spinohumeral muscles)	117	9.1.1 Anterior group	149
4.2 2 nd layer (spinoscapular muscles)	118	9.1.2 Posterior group	150
4.3 3 rd layer (spinocostal muscles)	118	9.2 Muscles of the thigh – Musculi femoris	152
4.4 Muscles of the back proper – Musculi dorsi proprii	119	9.2.1 Anterior group	153
4.5 Fasciae of the back	123	9.2.2 Medial group	154
5 Muscles of the thorax – Musculi thoracis	124	9.2.3 Posterior group	155
5.1 Muscles of the thorax – thoracohumeral muscles	125	9.3 Muscles of the leg – Musculi cruris	156
5.2 Muscles of the thorax proper	126	9.3.1 Anterior group	157
5.3 Diaphragm – Diaphragma	127	9.3.2 Lateral group	157
5.4 Fasciae of the thorax	127	9.3.3 Posterior group	158
6 Muscles of the abdomen – Musculi abdominis	128	9.4 Muscles of the foot – Musculi pedis	160
6.1 Anterior group	128	9.4.1 Dorsal group	161
6.2 Lateral group	129	9.4.2 Medial group (group of the great toe)	161
6.3 Posterior group	130	9.4.3 Lateral group (group of the little toe)	162
6.4 Fasciae of the abdomen	130	9.4.4 Middle group	162
7 Pelvic diaphragm / pelvic floor – Diaphragma pelvis	131	9.4.5 Interossei and lumbricals	163
7.1 Fasciae of the pelvis	132	9.5 Tendinous sheaths of the lower limb	
8 Muscles of the upper limb – Musculi membri superioris	133	– Vaginae tendinum membri inferioris	164
8.1 Muscles of the shoulder joint	133	9.6 Fasciae of the lower limb	165
8.2 Muscles of the arm – Musculi brachii	134	10 Review questions and figures	166
		11 Acknowledgements and references	168

5

Digestive system

169

1 General overview	170	6.1 Duodenum – Duodenum	188
2 Oral cavity – Cavitas oris	172	6.2 Jejunum and ileum – Jejunum et ileum	190
2.1 Cheek – Bucca	172	7 Large intestine – Intestinum crassum	191
2.2 Lips – Labia oris	173	7.1 Caecum – Caecum	192
2.3 Gum – Gingiva	173	7.1.1 Vermiform appendix – Appendix vermiformis	193
2.4 Teeth – Dentes	174	7.2 Colon – Colon	193
2.5 Tongue – Lingua	176	7.2.1 Ascending colon – Colon ascendens	193
2.6 Palate – Palatum	178	7.2.2 Transverse colon – Colon transversum	194
2.6.1 Hard palate – Palatum durum	178	7.2.3 Descending and sigmoid colon	
2.6.2 Soft palate – Palatum molle	179	– Colon descendens et sigmoideum	194
2.7 Palatine tonsil – Tonsilla palatina	178	7.3 Rectum – Rectum	195
2.8 Salivary glands – Glandulae salivariae	180	8 Liver – Hepar	196
3 Pharynx – Pharynx	182	9 Gallbladder – Vesica biliaris/fellea	199
4 Oesophagus – Oesophagus	185	10 Pancreas – Pancreas	200
5 Stomach – Gaster	186	11 Peritoneum – Peritoneum	201
6 Small intestine – Intestinum tenue	188	12 Review questions and figures	202
		13 Acknowledgements and references	204

6

Respiratory system

205

1 General overview	206	8 Bronchi – Bronchi	215
2 Nose – Nasus	206	9 Lungs – Pulmones	216
3 Nasal cavity – Cavitas nasi	207	10 Pleura – Pleura	220
4 Paranasal sinuses – Sinus paranasales	208	11 Mechanics of breathing movements	221
5 Pharynx – Pharynx	209	12 Tables – Laryngeal muscles by function	222
6 Larynx – Larynx	210	13 Review questions and figures	222
7 Trachea – Trachea	214	14 Acknowledgements and references	224

7

Urinary system

225

1 General overview	226	6 Female urethra – Urethra feminina	233
2 Kidneys – Renes	227	7 Dynamics of micturition	233
3 Renal pelvis and renal calices – Pelvis renalis et calices renales	230	8 Review questions and figures	234
4 Ureter – Ureter	230	9 Acknowledgements and references	236
5 Urinary bladder – Vesica urinaria	231		

8

Genital system

237

1 Development of the genital system	238	3 Female genital system – Organa genitalia feminina	249
2 Male genital system – Organa genitalia masculina	239	3.1 Ovary – Ovarium	250
2.1 Testis – Testis	240	3.2 Uterine/Fallopian tube – Tuba uterina Fallopii	251
2.2 Epididymis – Epididymis	242	3.3 Uterus – Uterus	252
2.3 Ductus deferens – Ductus deferens	243	3.4 Vagina – Vagina	254
2.4 Spermatic cord – Funiculus spermaticus	243	3.5 Female external genitalia (vulva) – Organa genitalia feminina externa (vulva)	255
2.5 Seminal glands – Glandulae vesiculosae	244	4 Perineum and its muscles – Perineum et musculi perinei	256
2.6 Bulbo-urethral glands – Glandulae bulbourethrales	244	5 Anatomy in pregnancy	257
2.7 Prostate – Prostata	245	6 Fetal membranes, placenta and umbilical cord	258
2.8 Scrotum – Scrotum	246	7 Fetal anatomy and anatomy of labour	259
2.9 Penis – Penis	247	8 Review questions and figures	260
2.10 Male urethra – Urethra masculina	248	9 Acknowledgements and references	262

9

Heart and blood vessels

263

1 General overview of the blood vessels	264	4.10 Abdominal aorta – Aorta abdominalis	287
2 General overview of the heart	265	4.10.1 Coeliac trunk – Truncus coeliacus	288
3 Heart – Cor	266	4.10.2 Inferior and superior mesenteric artery – Arteria mesenterica superior et inferior	289
3.1 Right atrium – Atrium dextrum	268	4.11 Common iliac artery – Arteria iliaca communis	290
3.2 Right ventricle – Ventriculus dexter	269	4.11.1 Internal iliac artery (parietal branches) – Arteria iliaca interna	290
3.3 Left atrium – Atrium sinistrum	270	4.11.2 Internal iliac artery (visceral branches) – Arteria iliaca interna	291
3.4 Left ventricle – Ventriculus sinister	271	4.11.3 External iliac artery – Arteria iliaca externa	291
3.5 Valves – Valvae	272	4.12 Femoral and popliteal artery – Arteria femoralis et arteria poplitea	292
3.6 Cardiac skeleton – Skeleton cordis	273	4.13 Anterior and posterior tibial arteries – Arteria tibialis anterior et posterior	293
3.7 Conducting system of the heart – Complexus stimulans cordis	273	5 Veins – Venae	294
3.8 Fetal circulation	274	5.1 Superior vena cava – Vena cava superior	294
3.9 Coronary arteries – Arteriae coronariae	275	5.2 Internal jugular vein – Vena jugularis interna	295
3.10 Veins of the heart – Venae cordis	275	5.3 External jugular vein – Vena jugularis externa	296
3.11 Clinical anatomy of the heart	276	5.4 Subclavian and axillary veins – Vena subclavia et vena axillaris	296
4 Arteries – Arteriae	277	5.5 Veins of the upper limb – Venae membri superioris	297
4.1 Aorta – Aorta	277	5.6 Inferior vena cava – Vena cava inferior	297
4.2 Ascending aorta and aortic arch – Aorta ascendens et arcus aortae	277	5.7 Portal vein – Vena portae	298
4.3 Common carotid artery – Arteria carotis communis	278	5.8 Porto-caval anastomoses	299
4.4 External carotid artery – Arteria carotis externa	278	5.9 Cavo-caval anastomoses	299
4.4.1 External carotid artery – ventral and medial branches	279	5.10 Common iliac vein – Vena iliaca communis	300
4.4.2 External carotid artery – dorsal branches	280	5.10.1 Internal iliac vein – Vena iliaca interna	300
4.4.3 Superficial temporal artery – Arteria temporalis superficialis	280	5.10.2 External iliac vein – Vena iliaca externa	301
4.4.4 Maxillary artery – Arteria maxillaris	281	5.11 Veins of the lower limb – Venae membri inferioris	301
4.5 Subclavian artery – Arteria subclavia	282	6 Schemes	302
4.5.1 Vertebral artery – Arteria vertebralis	282	6.1 Schemes of the heart	302
4.5.2 Subclavian artery – other branches	283	6.2 Schemes of arteries	304
4.6 Axillary artery – Arteria axillaris	284	6.3 Schemes of veins	310
4.7 Brachial artery – Arteria brachialis	284	7 Tables	
4.8 Radial and ulnar arteries and superficial and deep palmar arches – Arteria radialis et ulnaris, arcus palmaris superficialis et profundus	285	7.1 Tables of perforators – Venae perforantes	311
4.9 Thoracic aorta – Aorta thoracica	286	8 Review questions and figures	314
		9 Acknowledgements and references	316

1 General overview.....	318	8.5 Abdominal lymph nodes – Nodi lymphoidei abdominis.....	327
2 Lymphatic vessels – Vasa lymphoidea.....	319	8.6 Pelvic lymph nodes – Nodi lymphoidei pelvis.....	328
3 Thymus – Thymus.....	320	8.7 Lymph nodes of the lower limb	
4 Bone marrow – Medulla ossium.....	320	– Nodi lymphoidei membri inferioris.....	328
5 Spleen – Splen (lien).....	321	8.8 Sentinel lymph nodes of the respiratory and digestive system.....	329
6 Tonsils – Tonsillae.....	322	8.9 Sentinel lymph nodes of the urinary and genital system.....	330
7 Non-encapsulated lymphoid tissue.....	323	9 Schemes.....	331
8 Lymph nodes – Nodi lymphoidei (nodi lymphatici, lymphonodi).....	323	9.1 Lymphatic drainage of the abdomen and pelvis (lymph nodes).....	331
8.1 Lymph nodes of the head – Nodi lymphoidei capitis.....	324	9.2 Lymphatic drainage of the abdomen	
8.2 Lymph nodes of the neck – Nodi lymphoidei colli.....	324	and pelvis (lymphatic trunks).....	331
8.3 Lymph nodes of the upper limb		10 Review questions and figures.....	332
– Nodi lymphoidei membri superioris.....	325	11 Acknowledgements and references.....	334
8.4 Thoracic lymph nodes – Nodi lymphoidei thoracis.....	326		

1 General overview.....	336	3.10 N. X Vagus nerve – Nervus vagus.....	364
1.1 General structure of the spinal nerve.....	337	3.11 N. XI Accessory nerve – Nervus accessorius.....	366
1.2 Reflex arch.....	338	3.12 N. XII Hypoglossal nerve – Nervus hypoglossus.....	366
2 Spinal nerves – Nervi spinales.....	339	4 Autonomic nervous system (ANS).....	367
2.1 Cervical plexus – Plexus cervicalis (C1–C4).....	340	4.1 Sympathetic part – Pars sympathica.....	368
2.2 Brachial plexus – Plexus brachialis (C4–T1).....	342	4.2 Parasympathetic part – Pars parasympathica.....	371
2.2.1 Supraclavicular part of the brachial plexus.....	342	4.3 Mixed autonomic plexuses.....	372
2.2.2 Infraclavicular part of the brachial plexus.....	343	4.4 Enteric nervous system.....	374
2.3 Thoracic nerves – Nervi thoracici (T1–T12).....	346	5 Schemes.....	375
2.4 Lumbar plexus – Plexus lumbalis (T12–L4).....	346	5.1 Scheme of the peripheral nervous system.....	375
2.5 Sacral plexus – Plexus sacralis (L4–S4).....	348	5.2 Cervical plexus.....	375
2.6 Dermatomes and myotomes.....	350	5.3 Brachial plexus.....	376
2.7 Peripheral nerve fields – Areae nervinae.....	351	5.4 Brachial plexus – final branches.....	376
3 Cranial nerves – Nervi craniales.....	352	5.5 Lumbar and sacral plexus.....	378
3.1 N. I Olfactory nerve – Nervus olfactorius.....	354	5.6 Sacral plexus – branches.....	379
3.2 N. II Optic nerve – Nervus opticus.....	354	5.7 N. I, II, III, IV, VI.....	380
3.3 N. III Oculomotor nerve – Nervus oculomotorius.....	355	5.8 N. V.....	381
3.4 N. IV Trochlear nerve – Nervus trochlearis.....	355	5.9 N. VII, VIII, IX.....	382
3.5 N. V Trigeminal nerve – Nervus trigeminus.....	356	5.10 N. X, XI, XII.....	383
3.6 N. VI Abducent / Abducens nerve – Nervus abducens.....	360	5.11 Parasympathetic and sympathetic innervation of the head.....	384
3.7 N. VII Facial nerve – Nervus facialis.....	360	6 Review questions and figures.....	385
3.8 N. VIII Vestibulocochlear nerve – Nervus vestibulocochlearis.....	362	7 Acknowledgements and references.....	388
3.9 N. IX Glossopharyngeal nerve – Nervus glossopharyngeus.....	363		

1 General overview	390	10 Motor control.....	456
1.1 Microscopic structure – neurons.....	390	10.1 Descending (motor) tracts	458
1.2 Microscopic structure – neuroglia.....	391	11 Special sensory tracts	
1.3 Distribution of white and grey matter	391	11.1 Visual pathway.....	462
1.4 Nervous system development.....	392	11.2 Vestibular pathway.....	464
1.5 Brain development.....	393	11.3 Auditory pathway.....	465
1.6 Nervous tracts – Tractus nervosi.....	394	11.4 Olfactory pathway	466
1.7 Directions, planes and special terms of the CNS	395	11.5 Gustatory pathway	467
1.8 Function of the CNS.....	396	12 Ventricular system of the brain	468
2 Spinal cord – Medulla spinalis.....	398	12.1 Cerebrospinal fluid – Liquor cerebrospinalis	470
2.1 Spinal cord – white and grey matter	400	13 Meninges – Meninges	471
3 Brainstem – Truncus encephali	402	14 Arteries of the brain – Arteriae cerebri.....	472
3.1 Medulla oblongata – Medulla oblongata	404	15 Veins of the brain – Venae cerebri.....	474
3.2 Pons – Pons.....	406	15.1 Dural venous sinuses – Sinus durae matris.....	475
3.3 Midbrain – Mesencephalon.....	408	16 Blood supply of the spinal cord	476
3.4 Cranial nerves nuclei	410	17 Chemical system of the brain	477
3.5 Tracts of the cranial nerves	411	18 Psychomotor development	478
3.6 Nuclei of the brainstem.....	412	19 Sections	
3.7 Tracts of the brainstem.....	413	19.1 Cross-sections of the spinal cord	482
4 Reticular formation – Formatio reticularis.....	414	19.2 Cross-sections of the medulla oblongata	483
5 Cerebellum – Cerebellum.....	418	19.3 Cross-sections of the pons.....	484
6 Diencephalon – Diencephalon	424	19.4 Cross-sections of the midbrain	485
6.1 Epithalamus – Epithalamus	425	19.5 Sagittal and transverse section of the brain.....	486
6.2 Subthalamus – Subthalamus	425	19.6 Frontal sections of the brain.....	487
6.3 Thalamus – Thalamus.....	426	20 Table – Cerebral sulci	488
6.4 Hypothalamus – Hypothalamus	430	21 Schemes	
7 Telencephalon – Telencephalon.....	432	21.1 Scheme of cranial nerves nuclei	488
7.1 Cerebral cortex – Cortex cerebri (pallium).....	434	21.2 Scheme of the ventricular system, arteries of the brain and venous sinuses	489
7.2 Functional cortical areas	435	21.3 Schemes of somatosensory tracts.....	490
7.3 Basal ganglia – Nuclei basales	439	21.4 Schemes of special sensory tracts	491
7.4 Cerebral white matter – Corpus medullare.....	442	21.5 Schemes of motor tracts.....	492
8 Limbic system.....	444	21.6 Scheme of afferentation and efferentation of the cerebellum.....	493
8.1 Limbic system development.....	448	22 Review questions and figures.....	494
9 Sensory.....	450	23 Acknowledgements and references	500
9.1 Ascending tracts	452		

1 Senses.....	502	1.5.1 Accessory visual structures – Structurae accessoriae oculi.....	512
1.1 Internal environment – Interoceptors	502	1.6 Touch, pain, proprioception – Tactus, nociceptio, proprioceptio....	514
1.2 Olfactory organ – Organum olfactorium.....	503	2 Skin / Integument – Integumentum commune	515
1.3 Gustatory organ – Organum gustatorium.....	503	2.1 Breast and mammary gland – Mamma et glandula mammaria	517
1.4 Organ of hearing and balance – Organum vestibulocochleare	504	3 Review questions and figures.....	518
1.5 Visual organ – Organum visus.....	508	4 Acknowledgements and references	520

1 General overview.....	522	6 Thyroid and parathyroid gland	
2 Diffuse neuroendocrine system (DNES) and paraganglia	522	– Glandula thyroidea et glandulae parathyroideae	525
3 Hypophysis / pituitary gland – Hypophysis / glandula pituitaria.....	523	7 Suprarenal/adrenal glands – Glandula suprarenalis.....	526
4 Pineal gland – Glandula pinealis / corpus pineale	524	8 Summary of the endocrine glands and their hormones.....	527
5 Endocrine component of the pancreas – pancreatic islets	524	9 Review questions and figures.....	527
		10 Acknowledgements and references	528

1	Topography of the head	530	6	Topography of the back	568
1.1	Topography of the scalp and calvaria	531	6.1	Vertebral canal – Canalis vertebralis	568
1.2	Layers of the cheek	531	6.2	Suboccipital triangle – Trigonum suboccipitale	569
1.3	Orbit – Orbita	532	6.3	Superior and inferior lumbar triangles – Trigonum lumbale superius et inferius	569
1.4	Common tendinous ring – Anulus tendineus communis	534	7	Topography of the upper limb	570
1.5	Cavernous sinus – Sinus cavernosus	534	7.1	Topography of the shoulder – Regio deltoidea	570
1.6	Internal acoustic meatus – Meatus acusticus internus	534	7.1.1	Suprascapular and spinoglenoid notches – Incisura scapulae et spinoglenoidalis	570
1.7	Tympanic cavity – Cavitas tympani	535	7.1.2	Axilla – Fossa axillaris	571
1.8	Nasal cavity – Cavitas nasi	536	7.1.3	Triangular and quadrangular space – Foramen omotricipitale et humerotricipitale	572
1.9	Internal surface of the cranial base – Basis cranii interna	537	7.1.4	Clavipectoral triangle – Trigonum clavipectoriale/deltopectorale	572
1.10	Temporal fossa – Fossa temporalis	537	7.2	Topography of the arm – Regio brachialis	573
1.11	Infratemporal fossa – Fossa infratemporalis	538	7.2.1	Radial canal – Canalis nervi radialis	573
1.12	Pterygopalatine fossa – Fossa pterygopalatina	539	7.3	Topography of the elbow – Regio cubitalis	574
1.13	Subdivisions of the infratemporal fossa	540	7.3.1	Cubital fossa – Fossa cubitalis	574
1.13.1	Pterygomandibular space – Spatium pterygomandibulare	540	7.3.2	Pronator, cubital and supinator canals – Canalis pronatorius, cubitalis et supinatorius	575
1.13.2	Parapharyngeal space – Spatium parapharyngeum	540	7.4	Topography of the forearm – Regio antebrachialis	575
1.13.3	Prestyloid space – Spatium prestyloideum	541	7.5	Topography of the wrist – Regio carpalis	576
1.13.4	Retrostyloid space – Spatium retrostyloideum	541	7.5.1	Anatomical snuff box – Foveola radialis	576
1.13.5	Retropharyngeal space – Spatium retropharyngeum	541	7.5.2	Ulnar canal – Canalis ulnaris	576
2	Topography of the neck	542	7.5.3	Carpal tunnel – Canalis carpi	577
2.1	Regions of the neck – Regiones cervicales	542	7.6	Topography of the hand – Regio manus	577
2.1.1	Submandibular triangle – Trigonum submandibulare	543	8	Topography of the lower limb	578
2.1.2	Carotid triangle – Trigonum caroticum	543	8.1	Topography of the hip – Regio coxae	578
2.1.3	Submental triangle – Trigonum submentale	544	8.1.1	Greater and lesser sciatic foramina – Foramen ischiadicum majus et minus	578
2.1.4	Muscular/omotracheal triangle – Trigonum musculare/omotracheale	544	8.1.2	Suprapiriform and infrapiriform foramen, lesser sciatic foramen – Foramen suprapiriforme et infrapiriforme, foramen ischiadicum minus	579
2.1.5	Lesser supraclavicular fossa – Fossa supraclavicularis minor	544	8.1.3	Vascular and muscular space – Lacuna vasorum et musculorum	579
2.1.6	Omoclavicular triangle – Trigonum omoclaviculare	545	8.1.4	Obturator canal – Canalis obturatorius	580
2.1.7	Omotrapezoid triangle – Trigonum omotrapezium	545	8.2	Topography of the thigh – Regio femoris	580
2.1.8	Scalene fissure – Fissura scalenorum	545	8.2.1	Femoral triangle and iliopectineal fossa – Trigonum femorale et fossa iliopectinea	581
2.1.9	Scalenovertebral triangle – Trigonum scalenovertbrale	546	8.2.2	Adductor canal – Canalis adductorius	581
2.2	Spaces of the neck	546	8.2.3	Popliteal fossa – Fossa poplitea	582
2.3	Layers of the neck, cervical fascia – Fascia cervicalis	547	8.3	Topography of the leg – Regio cruris	582
3	Topography of the thorax	548	8.3.1	Fibular canal, tendinous arch of the soleus and musculofibular canal – Canalis fibularis, arcus tendineus musculi solei, canalis musculofibularis	583
3.1	Layers of the thoracic wall	548	8.4	Topography of the ankle – Regio tarsalis	583
3.2	Intercostal space – Spatium intercostale	549	8.4.1	Lateral retromalleolar space	583
3.3	Organ projections on the thoracic wall	549	8.4.2	Tarsal tunnel/canal – Canalis malleolaris	584
3.4	Mediastinum – Mediastinum	550	8.4.3	Structures in front of the medial malleolus	584
3.5	Topography of the oesophagus, trachea and aorta	552	8.5	Topography of the foot – Regio pedis	585
3.6	Openings of the diaphragm	553	8.5.1	Dorsum of the foot – Dorsum pedis	585
4	Topography of the abdomen	554	8.5.2	Sole – Planta	585
4.1	Structure of the anterior and lateral abdominal wall	555	9	Sections	586
4.1.1	Rectus sheath – Vagina musculi recti abdominis	555	9.1	Sections of the head	586
4.2	Inguinal canal – Canalis inguinalis	556	9.2	Sections of the neck	587
4.3	Inguinal region – Regio inguinalis	558	9.3	Sections of the thorax	588
4.3.1	Common sites of hernia	558	9.4	Sections of the abdomen	589
4.4	Abdominal cavity – Cavitas abdominis	559	9.5	Sections of the pelvis	590
4.5	Retroperitoneal space – Retroperitoneum	559	9.6	Sections of the arm and forearm	592
4.6	Peritoneal cavity – Cavitas peritonealis	560	9.7	Sections of the wrist and hand	593
4.6.1	Root of the transverse mesocolon – Radix mesocoli transversi	560	9.8	Sections of the thigh and leg	594
4.6.2	Bursa omentalis	561	9.9	Section of the foot	595
4.6.3	Hepatoduodenal ligament and cystohepatic triangle	562	10	Review questions and figures	595
4.6.4	Paracolic spaces	562	11	Acknowledgements and references	600
4.6.5	Mesenteries, omenta, peritoneal ligaments and recesses of the peritoneal cavity	563			
5	Topography of the lesser pelvis – Pelvis minor	564			
5.1	Peritoneal cavity of the pelvis – Cavitas peritonealis pelvis	564			
5.2	Subperitoneal space – Subperitoneum	565			
5.3	Perineal region – Regio perinealis	566			
5.4	Urogenital triangle – Trigonum urogenitale	566			
5.5	Ischioanal fossa – Fossa ischioanalis	567			
5.6	Pudendal canal – Canalis pudendalis	567			
5.7	Layers of the scrotum	567			