

Bulbus and tractus olfactorius and arteria cerebri anterior, from front (Fig. 38)	41
N. opticus and chiasma, from front (Fig. 39)	42
Arteria carotis interna and its division into arteria cerebri anterior and media, from front; hypophysis in situ (Fig. 40)	43
Horizontal section through cerebrum in situ; lateral ventricle (Fig. 41)	44
Tela chorioidea prosencephali and tentorium in situ (Fig. 42)	45
Lateral ventricle in situ, from above (Fig. 43)	46
Lateral ventricle in situ, from above (Fig. 44)	47
Basal ganglia and cerebellum in situ, from above (Fig. 45)	48
Brain stem and basal ganglia in situ, from above (Fig. 46)	49
Midsagittal section of the head with the brain in situ (Fig. 47)	50
Horizontal section of the head with the brain in situ (Fig. 48)	51
Blood vessels and nerves of posterior head region (Fig. 49)	52
Dura mater and sinus in situ, from behind (Fig. 50)	53
Arachnoidea and sinus durae, from behind (Fig. 51)	54
Surface of brain in situ, from behind (Fig. 52)	55
Cerebellum and roof of 4th ventricle in situ, dorsal view (Fig. 53)	56
Fossa rhomboidea in situ, dorsal view (Fig. 54)	56
Brain stem and cervical cord, from behind (Fig. 55)	57
Dura mater of the base of the skull (Fig. 56)	58
Brain with arteries and cisterns, from below (Fig. 57)	59
Brain with arteries and nerves, from below (Fig. 58)	60
Brain with arteries and nerves, from below (Fig. 59)	61
Venae cerebri internae and their tributaries (Fig. 60)	62
Base of skull, from inside; foramina with contents (Fig. 61)	63
Base of skull with dura mater and sinus (Fig. 62)	64
Arteries of the brain and their relationship to the base of the skull (Fig. 63)	65
Base of skull with sinus paranasales (Fig. 64)	66
Vena basalis <i>Rosenthali</i> and its tributaries (Fig. 65)	67
Lateral arteriogram of arteria carotis interna and branches (Fig. 66)	68
Anterior-posterior arteriogram of aa. vertebrales (Fig. 67)	68
Arteriogram of a. vertebralis, from side (Fig. 68)	69
Phlebogram of external veins of brain, lateral view (Fig. 69)	69
Intracranial portion of trigeminus in situ; circulus arteriosus (Fig. 70)	70
Cavum <i>Meckeli</i> and cisterna trigemini, cross section (Fig. 71)	71
N. facialis and cavum tympani, topographic relationships (Fig. 72)	72
Blood vessels and nerves in the region of sella turcica (Fig. 73)	73
Blood vessels and nerves in the area of cavum tympani (Fig. 74)	74
Canalis caroticus and adjacent areas, topographic relationships (Fig. 75)	75
Diencephalon in situ, from above (Fig. 76)	76
Incisura tentorii, from above (Fig. 77)	76
Median section of brain with cisterns (Fig. 78)	77
Arachnoidea covering the brain, from side (Fig. 79)	77
Arachnoidea and cisterns on the under surface of the brain (Fig. 80)	78
Brain stem (without cerebellum), from behind (Fig. 81)	79
Brain stem, from below and lateral (Figs. 82-83)	80
Cross section through medulla oblongata, lower portion (Fig. 84)	81
Cross section through medulla oblongata, middle portion (Fig. 85)	82
Cross section through medulla oblongata, upper portion (Fig. 86)	83
Cross section through pons (Fig. 87)	84
Cross section through midbrain (Fig. 88)	85
Cross section through pons (trigeminus) (Fig. 89)	86

Cross section through midbrain and pons (Fig. 90)	87
Model of basal ganglia, lateral view (Fig. 91)	88
Model of basal ganglia without nucleus lentiformis, lateral view (Fig. 92)	89
Frontal section through cerebrum in the area of the anterior horns of the lat. ventricles (Fig. 93)	90
Frontal section through cerebrum in the region of commissura anterior (Fig. 94)	91
Frontal section through cerebrum in the area of pars centralis of lateral ventricle (Fig. 95)	92
Frontal section of the brain at the level of the 3rd ventricle (Fig. 96)	93
Arterial supply of basal ganglia from a. cerebri media (Fig. 97)	94
Rhombencephalon, dissected specimen, from side (Fig. 98)	94
Basal ganglia and cerebellar tracts, dissection (Fig. 99)	95
Optic pathway, dissection (Fig. 100)	96
Radiatio corporis callosi, dissection (Fig. 101)	97
Ansa peduncularis and commissura anterior, dissection (Fig. 102)	98
Fornix and hippocampus, lateral view (Fig. 103)	99
Fornix and gyrus dentatus, from below (Fig. 104)	100
Pyramidal tract in situ, dissection (Fig. 105)	101
Corona radiata and capsula interna, dissection (Fig. 106)	102
Sinus sagittalis superior and lacunae laterales, frontal section (Fig. 107)	103
Association tracts of the left hemisphere, dissection, lateral view (Fig. 108)	104
Cast of ventricular system, seen from left side (Fig. 109)	104
Ventriculogram, from side (Fig. 110)	105
Ventriculogram, anterior-posterior (Fig. 111)	105
<i>Brodmann's</i> cytoarchitectonic cortical areas (Fig. 112)	106
Cytoarchitectonic cortical areas of v. <i>Economo</i> and <i>Koskinas</i> (Fig. 113)	107

The Face Region

Mimic musculature, superficial vessels and nerves, from front (Fig. 114)	111
Mimic musculature, from behind (Fig. 115)	112
Superficial blood vessels and nerves of the head, from side (Fig. 116)	113
Superficial blood vessels and nerves of the face, from side (Fig. 117)	114
Fossa retromandibularis and n. facialis (Fig. 118)	115
Blood vessels and nerves of the lateral face region, middle layer (Fig. 119)	116
Blood vessels and nerves of the lateral face region, deep layer (Fig. 120)	117
Deep facial region, from side (fossa infratemporalis and retromandibularis) (Fig. 121)	118
Fossa infratemporalis and retromandibularis (Fig. 122)	119
Fossa infratemporalis, retromandibularis, and submandibularis after removal of the right half of the mandibula (Fig. 123)	120

Visceral Spaces of the Head

Cavities of the head, median section (Fig. 124)	123
Visceral spaces of head, from front (Fig. 125)	124
Frontal section through facial skeleton (Fig. 126)	125
Frontal section through facial skeleton (Fig. 127)	126

Nasal Cavity and Paranasal Sinuses

Frontal section through the nasal cavity and the paranasal sinuses (Figs. 128–129)	129
Paranasal sinuses, lateral view (Fig. 130)	130

Paranasal sinuses, medial view (Fig. 131)	131
Arteries and nerves of the nasal septum (Fig. 132)	131
Median section of the head; blood vessels and nerves (Fig. 133)	132
Parapharyngeal blood vessels, nerves, and muscles on the base of the skull, dorsal view (Fig. 134).....	133
Fossa infratemporalis, medial view (Fig. 135)	134

Oral Cavity and Pharynx

Muscles of cavum and vestibulum oris, from front (Fig. 136)	136
Blood vessels and nerves of oral cavity (Fig. 137)	137
Floor of mouth and pharyngeal musculature, lateral view (Fig. 138)	138
Cavum oris, from behind (Fig. 139)	139
Regio sublingualis (Fig. 140)	140
Frontal section through tongue region (Fig. 141)	141
Transverse section through regio submandibularis (Fig. 142)	141
The large salivary glands, from front (Fig. 143)	142
The large salivary glands, lateral view (Fig. 144).....	143
The large salivary glands, medial view (Fig. 145)	144
Sensory innervation of mucosa on roof of oral cavity (Fig. 146)	145
Innervation of mucosa of tongue and lower jaw (Fig. 147)	145
Regio sublingualis, blood vessels and nerves (Fig. 148)	146
Innervation of the mucosa lining the visceral tracts of head and neck (Fig. 149)	147
Arteries and nerves of the jaw and the deep facial region (Fig. 150)	148
Veins and lymphatics of the jaw and the deep facial region (Fig. 151)	149
Peripheral taste fibers (Fig. 152)	150
Upper and lower teeth on one side (Fig. 153)	151
Transverse section through the alveolar processes showing the roots of the teeth (Fig. 154)	152
Deciduous teeth of a 4- to 5-year-old child (Fig. 155)	153
Deciduous teeth of a 6-year-old child (Fig. 156).....	153
Teeth of right side, oral and vestibular views (Figs. 157–158)	154
Roentgenogram of permanent teeth (Figs. 159–160).....	155
Roentgenogram of incisors, canines, and the deciduous molars of a 2½-year-old child (Fig. 161)	156

Ear and Vestibular Apparatus

Bony framework of ear and vestibular apparatus (Fig. 162)	158
Projection of middle ear cavity on lateral aspect of skull (Fig. 163)	158
Bony labyrinth and middle ear (Fig. 164).....	159
Membranous labyrinth with blood vessels and nerves (Fig. 165)	160
Horizontal section through the ear (Fig. 166)	161
Preparation of ear from regio mastoidea (Fig. 167)	162
Blood vessels and nerves of regio infratemporalis and outer ear (Fig. 168)	163
Right ear and n. facialis seen from regio mastoidea (Fig. 169)	164
Semicircular canals, n. facialis and sinus sigmoideus seen from regio mastoidea (Fig. 170)	165
Cast of the bony labyrinth, medial and lateral views (Figs. 171–172)	166
Cast of the bony labyrinth, from above (Fig. 173)	167
Fundus of internal acoustic meatus (Fig. 174)	167
Frontal section through pars petrosa of temporal bone (Fig. 175)	168
Frontal section through right middle ear (Fig. 176)	169

Medial wall of middle ear (Fig. 177)	170
Lateral wall of middle ear with auditory ossicles (Fig. 178)	171
The three auditory ossicles, disarticulated (Fig. 179)	172
The auditory ossicles articulated, medial and superior views (Figs. 180-181)	173
Ear drum, from outside (Fig. 182)	174
Ear drum with arteries, from outside (Fig. 183)	174
Otoscopic view of right ear drum (Fig. 184)	175
Left external ear (Fig. 185)	176

Eye and Orbit

External eye region (Fig. 186)	178
Eye region with upper lid turned back (Fig. 187)	178
Lacrimal apparatus (Fig. 188)	179
Eye muscles, from front and above (Figs. 189-190)	180
Superficial blood vessels and nerves of the eye and nose regions (Fig. 191)	181
Deep blood vessels and nerves of the eye and nose regions (Fig. 192)	181
Deep blood vessels and nerves of the eye and nose regions (Fig. 193)	182
Bulbus oculi in situ, from front (Fig. 194)	182
Sagittal section through orbita with contents (Fig. 195)	183
Orbital contents, lateral view; fossa pterygopalatina (Fig. 196)	184
Orbital contents, from above (Figs. 197-198)	185
Orbital contents, from above; hypophyseal region, from above (Fig. 199)	186
Bulbus oculi, from above; vessels and nerves of tunica vasculosa (Fig. 200)	187
Blood vessels of bulbus oculi, schematic (Fig. 201)	188
Blood vessels of bulbus oculi, lateral view (Fig. 202)	189
Horizontal section through left bulbus oculi (Fig. 203)	190
Cross section through n. opticus (Fig. 204)	190
Horizontal section through the anterior portion of the bulbus (Fig. 205)	191
Horizontal section through the region of papilla nervi optici (Fig. 206)	191
Bulbus oculi, from front (Fig. 207)	192
Anterior portion of bulbus, seen from inside (Fig. 208)	192
Fundus of eye in living adult (Fig. 209)	193
Anterior half of bulbus, seen from behind (Fig. 210)	194
Lens and suspensory apparatus, from front (Fig. 211)	194

The Neck

Skeleton, Musculature and Visceral Spaces of the Neck

Skeleton of head and neck, from front (Fig. 212)	197
Skeleton of head and neck, from side (Fig. 213)	198
Skeleton of head and neck, from behind (Fig. 214)	199
Roentgenogram of neck, anterior-posterior (Fig. 215)	200
Roentgenogram of vertebral column in neck, anterior-posterior (Fig. 216)	201
Roentgenogram of cervical vertebral column emphasizing the cranivertebral joints, anterior-posterior (Fig. 217)	202
Roentgenogram of cranivertebral joints (Fig. 218)	203
Head and neck from the side with the skeletal parts included (Fig. 219)	204

Roentgenogram of cervical vertebral column (Fig. 220)	205
Roentgenogram of cranivertebral joints, lateral view (Fig. 221)	206
Roentgenogram of the neck of a 5-year-old child (Fig. 222)	207
Cranivertebral joints, from behind (Fig. 223)	208
Cranivertebral joints, from behind (Fig. 224)	209
Frontal section through the cranivertebral joints (Fig. 225)	210
Transverse section through the cranivertebral joints (Fig. 226)	210
Median section through the region of the cranivertebral joints (Fig. 227)	211
Median section of head and neck skeleton (Fig. 228)	212
Skull and cervical vertebral column, oblique view from below (Fig. 229)	213
Roentgenogram of neck viscera in the adult, lateral view (Fig. 230)	214
Roentgenogram of head and neck and neck viscera, lateral view (Fig. 231)	215
Neck musculature, from front (Fig. 232)	216
Neck musculature, left side (Fig. 233)	217
Pre- and paravertebral neck musculature (Fig. 234)	218
Intrinsic muscles of the posterior neck region, schematic (Fig. 235)	219
Deep muscles, blood vessels and nerves of the back of the neck (Fig. 236)	220
Cross section through the neck at the level of the 7th and 5th cervical vertebrae (Figs. 237-238)	221
Cross section through the neck at the level of atlas (Fig. 239)	222
Cross section of head and neck at the level of the occlusal plane (Fig. 240)	223
Cross section of the head at the level of nasopharynx (Fig. 241)	224
Cross section of head and neck at the level of oropharynx (Fig. 242)	225
Cross section of the neck at the level of laryngopharynx (Fig. 243)	225
Visceral compartment of neck, median section (Fig. 244)	226
Median section through neck and facial skeleton (Fig. 245)	227
Neck musculature, from inside (Fig. 246)	228
Median section of neck and facial skeleton (Fig. 247)	229
Sensory innervation of mucosal linings in head and neck (Fig. 248)	230

Topography of the Anterior and Lateral Neck Regions

Superficial blood vessels and nerves of the neck (Fig. 249)	232
Superficial blood vessels and nerves of the neck after removal of platysma (Fig. 250)	233
Superficial fascia of neck and face (Fig. 251)	234

Trigonum Submandibulare and Fossa Retromandibularis

The parotid compartment and surrounding region (Fig. 252)	237
Fossa retromandibularis (Fig. 253)	238
Trigonum submandibulare (Fig. 254)	239
Fossa retromandibularis and trigonum submandibulare (Fig. 255)	240
Fossa retromandibularis and trigonum submandibulare (Fig. 256)	241
Fossa retromandibularis and trigonum submandibulare (Fig. 257)	242

Trigonum Caroticum

Trigonum caroticum, vena jugularis interna (Fig. 258)	244
Trigonum caroticum and trigonum submandibulare (Fig. 259)	245

Arteries and nerves of the neck, lateral view (Fig. 260)	246
Veins and lymphatics of the neck (Fig. 261)	247
Deep arteries and nerves of the neck (Fig. 262)	248
Deep veins and lymphatics of the neck (Fig. 263)	249

Regio Thyreoidea

Regio colli mediana and infrathyroid musculature (Fig. 264)	253
Regio thyreoidea and surrounding region, deep structures (Fig. 265)	254-255
Trigonum colli anterius, from front (Fig. 266)	256
Superficial fascia of the neck, from front; spatium suprasternale (Fig. 267)	257
Regio thyreoidea, from front (Fig. 268)	258-259
Superior thoracic aperture with cupula of the pleura (Fig. 269)	260
Cross section at the level of the superior thoracic aperture (Fig. 270)	261
Regio thyreoidea and surrounding region (Fig. 271)	262
Regio thyreoidea and superior thoracic aperture (Fig. 272)	263
Regio thyreoidea and mediastinum with the aortic arch (Fig. 273)	265
Cross section at the level of the isthmus of the thyroid gland (Fig. 274)	266

Trigonum Colli Laterale

Lateral triangle (posterior triangle) of the neck, superficial blood vessels and nerves (Fig. 275)	268
Lateral triangle (posterior triangle) of the neck, deep layer with plexus brachialis and arteria subclavia between the scalene muscles (Fig. 276)	269
Lateral triangle (posterior triangle) of the neck, cutaneous nerves of plexus cervicalis, superficial fascia (Fig. 277)	270
Deep blood vessels and nerves of the lateral neck region (Fig. 278)	272-273
Blood vessels and nerves of regio supraclavicularis and axillaris (Fig. 279)	276-277
Cervical neurovascular bundle (Fig. 280)	279
Cervical portion of vertebral canal (Fig. 281)	280

Posterior Neck Region

Superficial blood vessels and nerves of posterior neck region (Fig. 282)	282-283
Blood vessels and nerves of posterior neck region, middle layer, posterior neck musculature (Fig. 283)	286-287
Blood vessels and nerves of suboccipital region, intrinsic musculature (Fig. 284)	290-291

Vertebral Canal and Spinal Cord in Neck Region

Cervical vertebral canal with blood vessels and nerves, opened from the back (Fig. 285)	294-295
Cross section through the cervical vertebral column and the contents of the vertebral canal (Fig. 286)	297
Cervical vertebral canal opened with arachnoidea and spinal nerve roots (Fig. 287)	298-299
Median section of cervical vertebral canal (Fig. 288)	300
Cervical spinal cord and spinal nerves in situ, from behind (Fig. 289)	301
Cervical vertebral canal opened with plexus cervicalis and plexus brachialis, dorsal view (Fig. 290)	302-303
Röntgenogram of cisterna cerebellomedullaris (Fig. 291)	304

Pharynx and Regio Parapharyngea

Pharynx and neurovascular trunk, from behind (Fig. 292)	306
Pharynx and neurovascular trunk, from behind (Fig. 293)	307
Pharynx, opened from behind (Fig. 294)	308
Muscles of pharynx and palate (Fig. 295)	309
Median section through pharynx and facial skeleton (Fig. 296)	310
Parapharyngeal structures (Fig. 297)	311
Cavum tympani and tuba auditiva with surrounding region (Fig. 298)	312
Pharynx and the cervical neurovascular bundle in situ, dorsal view (Fig. 299)	314–315
Blood vessels and nerves of the deep facial region and regio pterygoidea (Fig. 300)	317
Cervical neurovascular bundle, lateral view (Fig. 301)	318
Cervical neurovascular bundle, lateral view (Fig. 302)	319
Cervical visceral compartments and neurovascular bundle on right side (Fig. 303)	320
Oral cavity, from front; arteries to palatine tonsil (Fig. 304)	321
Musculature of palate and pharynx with blood vessels and nerves, from inside (Fig. 305)	322

Larynx

Tonsillar tissue in the mucosa of the visceral tracts of head and neck (Fig. 306)	324
Aditus laryngis and recessus piriformis (Fig. 307)	325
Larynx, dorsal view (Fig. 308)	326
Muscles, vessels, and nerves on the back side of larynx (Fig. 309)	327
Muscles, blood vessels, and nerves of regio submandibularis and larynx, lateral view (Fig. 310)	328
Muscles, blood vessels, and nerves of regio submandibularis and larynx, lateral view (Fig. 311)	329
Larynx, dorsal view (Fig. 312)	330
Larynx, opened laterally (Fig. 313)	330
Median section of larynx (Fig. 314)	330
Median section of larynx and root of tongue (Fig. 315)	331
Frontal section of larynx (Fig. 316)	331
Cross section through larynx at the level of plica ventricularis (Fig. 317)	332
Cross section through larynx at the level of plica vocalis (Fig. 318)	332
Larynx, laryngoscopic view (Fig. 319)	333
Cross section of the neck at the level of the vocal cords (Fig. 320)	334
The joints of the laryngeal cartilages, semischematic (Fig. 321)	335
Skeletal framework and ligaments of larynx (Fig. 322)	336
Laryngoscopic view of rima glottidis (Fig. 323)	337
Muscles of larynx (Fig. 324)	338
Roentgenogram of larynx, lateral view (Fig. 325)	339
Passageways to larynx and pharynx, median section (Fig. 326)	340
Roentgenogram of larynx during pronunciation of the vowel "u" (Fig. 327)	341
Roentgenogram of larynx during normal respiration, from front (Fig. 328)	341
Roentgenogram of larynx during deep inspiration, from front (Fig. 329)	341
Digestive and respiratory tracts in midsagittal section (Fig. 330)	342

Orientation Diagrams for Sectional Planes

Sections of head (Fig. 331)	344
Sections of neck (Fig. 332)	345
Index	346