

CONTENTS

PART I DISEASES OF THE OPTIC PATHWAYS

Chap. I	Optic nerve anatomy. The visual field	pag.	3
	Anatomy and physiology of the retina	pag.	3
	Optic nerve anatomy	pag.	10
	Optic nerve cytology	pag.	28
	The visual field.....	pag.	30
	Electroretinogram (ERG). Visual evoked potentials (VEP)	pag.	32
Chap. II	Papilledema	pag.	47
	Papilledema	pag.	47
Chap. III	Optic perineuritis and retrobulbar optic neuritis	pag.	67
	Optic perineuritis	pag.	67
	Retrobulbar optic neuritis	pag.	73
Chap. IV	Ischemic optic neuropathy. Optic nerve trauma. Tumours and malformations of the optic nerve	pag.	109
	Ischemic optic neuropathy	pag.	109
	Optic nerve trauma	pag.	127
	Tumours of the optic nerve	pag.	130
	Primary optic nerve tumours	pag.	130
	Metastatic optic nerve tumours	pag.	137
	Malformations of the optic nerve.....	pag.	142
Chap. V	Optic atrophy	pag.	153
Chap. VI	The optic chiasm. Chiasmal visual loss	pag.	169
	Optic chiasm anatomy	pag.	169
	Optic chiasm disorders	pag.	177
	Disorders primarily involving the optic chiasm.....	pag.	180
	Parachiasmal disorders	pag.	183
	Diagnosis of chiasmal lesions	pag.	206

Chap. VII	Pregeniculate homonymous hemianopia	pag. 215
	Anatomy and physiology of the optic tracts, lateral geniculate bodies, superior colliculi, and accessory optic system	Pag. 215
Chap. VIII	Postgeniculate homonymous hemianopia, cortical blindness, visual agnosia, and amaurosis fugax	Pag. 227
	Anatomy and physiology of the optic radiation and visual cortical areas (Fields 17, 18, and 19 of Brodmann).....	Pag. 227
	Postgeniculate homonymous hemianopia and quadranopia, cortical blindness, visual agnosia, and amaurosis fugax.....	Pag. 240

PART II

DISEASES OF THE AUTONOMIC NERVOUS SYSTEM

Chap. IX	The pupil	pag. 279
	The autonomic nervous system	pag. 279
	Neurotransmitters of peripheral synapses.	
	Pharmacology of the autonomic nervous system.....	pag. 283
	Parasympathetic innervation of the pupil.....	pag. 290
	The ciliary ganglion and postganglionic parasympathetic neurons	pag. 295
	Sympathetic innervation of the pupil	pag. 297
	Pupillary reflexes	pag. 306
	Pupillary drug test	pag. 311
Chap. X	Miosis and mydriasis	pag. 315
	Miosis	pag. 315
	Mydriasis	pag. 326
Chap. XI	Argyll Robertson pupils, tonic pupil, pupils in coma, anisocoria	pag. 335
	Argyll Robertson pupils	pag. 335
	Tonic pupil (Adie-Holmes syndrome).....	pag. 337
	Pupils in myotonic dystrophy.....	pag. 339
	Pupillary disturbances in optic pathway lesions	pag. 339
	Pupils in coma	pag. 341
	Anisocoria.....	pag. 345

Chap. XII	Accommodative paralysis and spasm	pag. 349
	Accommodative paralysis and spasm	pag. 353
Chap. XIII	Lachrymal hypersecretion and hyosecretion	pag. 357
	Parasympathetic innervation of the lachrymal gland	pag. 358
	Sympathetic innervation of the lachrymal gland	pag. 363
	Lachrymal hypersecretion	pag. 369
	Lachrymal hyosecretion	pag. 372

PART III OCULAR MOTOR SYSTEM DISTURBANCES

Chap. XIV	Gaze disturbances	pag. 379
	Horizontal gaze movements	pag. 381
	Disorders of horizontal gaze movements	pag. 394
	Vertical gaze movements	pag. 399
	Disorders of vertical gaze movements	pag. 402
Chap. XV	Nystagmus. Saccadic intrusions and oscillations. Skew deviation. Internuclear ophthalmoplegia. Disjunctive eye movements (vergence movements)	pag. 415
	Nystagmus	pag. 415
	Treatment of nystagmus	pag. 430
	Saccadic intrusions and oscillations	pag. 430
	Ocular motor disorders secondary to cerebellar system dysfunction	pag. 432
	Skew deviation (Magendie-Hertwig phenomenon)	pag. 433
	Internuclear ophthalmoplegia	pag. 433
	Disorders of the vergence system	pag. 437
	Convergence paralysis	pag. 438
	Convergence spasm	pag. 439
	Divergence paralysis	pag. 439
Chap. XVI	The ocular motor nerves. The extraocular muscles	pag. 445
	Histology, cytology, and pathology of the peripheral nervous system	pag. 445
	The ocular motor nerves (oculomotor, trochlear, and abducens nerves)	pag. 449
	Structure and physiology of skeletal muscles	pag. 456
	Histology, ultrastructure, and innervation of extraocular muscles	pag. 459
	Anatomy and physiology of extraocular muscles	pag. 461

Chap. XVII	Paralytic strabismus	pag. 477
	Strabismus fixus	pag. 514
	Congenital anomalies of extraocular muscle innervation	pag. 515
Chap. XVIII	Eyelid disturbances	pag. 525
	Blepharoptosis (Ptosis)	pag. 526
	Lid retraction	pag. 527
	Blepharospasm	pag. 528
	Palpebral tics	pag. 530
	Palpebral myokymia	pag. 530
	Paralytic lagophthalmos	pag. 530
Chap. XIX	Ocular hypoesthesia and hyperalgesia	pag. 533
	Somatic sensation: general considerations	pag. 533
	Sensory innervation of the eye	pag. 537
	Ophthalmic nerve hypoesthesia and anaesthesia	pag. 540
	Ophthalmic neuralgia	pag. 546
	Photophobia	pag. 547
Index	pag. 551