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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	THE IMPORTANCE AND ROLE OF NEURO-OPHTHALMOLOGY -- The importance and role of neuro-ophthalmology in ophthalmological clinical practice -- The importance of neuro-ophthalmology in neurology -- OBJECTIVES AND RECENT RESULTS IN THE NEURO-OPHTHALMOLOGICAL CLINICAL PRACTICE -- Mechanisms of parallel information processing in the visual system -- A new direction: neuro-endocrino-immunology -- Visual and eye movement disorders in internal diseases -- Genetic aspects of neuro-ophthalmological diseases -- Recent knowledge in the neurosurgical practice regarding the visual system -- The role of gamma knife stereotactic radiosurgery in the treatment of neuro-ophthalmological diseases -- Neurointerventional treatment of diseases causing neuro-ophthalmological symptoms -- Recent results in neuropathology: demyelinating and conformational diseases -- CONVENTIONAL, NOVEL AND COMPLEMENTARY EXAMINATIONS IN OPHTHALMOLOGY -- Functional tests of the visual pathway system -- Algorithm of the neuro-ophthalmological examination used in the international practice -- Objective and subjective examination methods of visual acuity -- Examination of contrast sensitivity -- Examination of color vision -- Electroretinography (ERG): electrophysiological examination of the retina -- Functional examinations of the visual pathway system with electrophysiological methods -- Clinical importance of conventional

and modern visual field tests in the topographical diagnostics of optic nerve disorders -- The differential diagnosis of visual field deficits at the bedside -- The role of fluorescein angiography and optical coherence tomography in the examination of circulatory disorders of the optic disc -- Optical coherence tomography of the optic disc and the macula in neurodegenerative diseases -- Neuro-ophthalmological examinations of the eye movements -- Diagnosis, differential diagnosis and treatment of congenital oculomotor disorders -- Polatest procedure -- Physiology and examination methods of the pupillomotor pathway -- Neuro-ophthalmological methods for the clinical analysis of double vision -- Supplementary test procedures -- Duplex ultrasound examination of the carotid and vertebral arteries -- Transcranial Doppler examination -- Color Doppler ultrasound examinations in orbital diseases -- The role of ophthalmological ultrasound in neuro-ophthalmology -- The role of EMG-ENG in diagnosing neuro-ophthalmologic diseases -- Computed tomography examinations -- Neuroradiology, functional MRI -- Novel information regarding the visual and eye movement systems in Otoneurology -- Electro-oculography (EOG) examination of eye movements -- The importance of familial thrombophilias in the clinical practice -- Modern possibility in anticoagulant therapy -- Novel consideration regarding the role of evoked potential in confirming -- The diagnosis of eye movement disorders of brainstem origin -- **DISEASES OF RETINA AND THE OPTIC NERVE (VISUAL AND SENSORY SYSTEM)** -- Congenital diseases of the retina and the visual pathway -- Hereditary diseases of the retina -- The roles of electroretinography (ERG) and visual evoked potential (VEP) examinations in the diseases of the retina and/or the optic nerve -- Congenital diseases of the optic nerve -- Phacomatoses -- Acquired diseases of the optic nerve -- Inflammatory diseases of the optic nerve -- Retrobulbar optic neuropathy – from the neurologist's approach -- Neuromyelitis optica (Devic's disease): A new concept for an old disease -- Acquired inflammatory diseases of the optic nerve – the neuro-ophthalmologist's approach -- Circulatory disorders of the optic nerve -- Vascular diseases of the optic nerve – internal medicine aspect -- The cardiovascular background of 'intracerebral small vessel disease' -- Vascular diseases of the optic nerve – the neuro-ophthalmologist's approach -- Compressive optic neuropathy -- Diseases causing compression of the optic nerve – the neurosurgeon's perspective -- Bernadett Salomváry: Neuro-ophthalmological aspects of tumors causing compression of the visual pathway system -- Traumatic optic neuropathy -- The significance of Neuro-Ophthalmology in the diagnosis and therapy of cranial trauma -- Toxic and deficiency optic neuropathy -- Optic pathway diseases of nutritional and toxic origin -- Eye-related symptoms and signs of intracranial hypertension -- Eye-related symptoms and signs of intracranial hypertension -- Blind spot enlargement syndrome -- **NEURO-OPHTHALMOLOGIC ASPECTS OF THE OCULAR MOTOR SYSTEM** -- Disorders of the pupillomotor pathway -- The most important disorders of the pupillomotor pathway in the clinical practice -- Infranuclear and nuclear neurogenic paresis -- Congenital eye movement disorders -- The most important clinical syndromes of acquired nuclear and infranuclear eye movement disorders and their diagnostic and therapeutic options -- Neurogenic pareses due to dysfunction of the brainstem -- Eye movement disorders related to brainstem dysfunctions - types, clinical significance of vertical localization, modern therapeutic principles -- The clinical significance of otoneurology in the diagnosis brainstem disorders -- Examination of the eye movements of the patient in coma -- Supranuclear eye

movement systems and their clinical significance -- Supranuclear regulation of the eye movements and the significance of their disturbances -- Disorders of neuromuscular junction (MG and OMG), non-isolated ocular muscle paresis and myogenic paresis -- Disorders of the neuromuscular junction and their diagnostics -- The ocular characteristics and differential diagnostics of mixed types eye movement disorders (disorders of ocular neuromuscular junction (OMG), non-isolated ocular muscle paresis and myogenic paresis) -- Ocular myasthenia gravis -- Non-isolated ocular muscle palsies -- Myogenic pareses -- Endocrine myopathy and orbitopathy -- DISEASES OF THE ORBIT -- Diagnostics and therapy of the diseases of the orbit -- Traumatic injuries of the orbit -- NEURO-OPHTHALMOLOGICAL CONSIDERATIONS OF THE FACIAL NERVE -- Tumor lesions of the facial nerve -- THE NEURO-OPHTHALMOLOGICAL ASPECTS OF HEADACHES -- Neuro-Ophthalmological aspects of headaches – from the neurologist's approach -- REHABILITATION -- Viewing down from the top-Visual impairments developing as a consequence of cortical injury -- Ignored world without missing it – Neglect -- Introducing tools and services helping life of people with impaired vision -- Elementary and occupational rehabilitation of people with impaired vision -- The importance and options of rehabilitation on behalf of a neuro-ophthalmologist.

Sommario/riassunto

This practical guide provides a complete algorithm for diagnosis and treatment, from 'having a problem with vision', via background and diagnosis, to treatment and eventually to rehabilitation of visual loss and eye-movement disorders in the central nervous system. Following on from introductory sections devoted to the role of neuro-ophthalmology, recent developments in the field, and an overview of neuro-ophthalmological examinations, there are sections devoted to the different parts of the visual system, and finally a section on rehabilitation. The handbook gives an overall picture for all interested in neuro-ophthalmology, borderline territories and overlaps. Neuro-Ophthalmology is aimed at ophthalmologists, neurologists, neurosurgeons, traumatologists, neuroradiologists, experts in cardiology and stroke, and trainees in these areas. It will also be of interest to neuro-rehabilitation specialists, neuropsychologists, and those working in typhlopedagogy and health informatics.
