

Contents

	Preface	v
1	Introductory Remarks	1
1.1	Vertigo and Dizziness: Multisensory Syndromes	1
1.2	Patient History	5
1.3	Neuro-ophthalmological and Neuro-otological Examination	11
1.4	Laboratory and Imaging Examinations	26
1.4.1	Electronystagmography	26
1.4.2	Video-oculography	27
1.4.3	Neuro-orthoptic and Psychophysical Procedures	29
1.4.4	Audiometry	29
1.4.5	Additional Laboratory Examinations	30
1.4.6	Imaging of the Petrous Bone, the Cerebellopontine Angle and the Brainstem with Computed Tomography and Magnetic Resonance Imaging	31
1.5	General Principles of Therapy	37
1.5.1	Pharmacological Therapy	37
1.5.2	Physical Therapy: Balance Training and Liberatory Manoeuvres	37
1.5.3	Surgery	39
1.5.4	Psychological/Psychiatric Treatment	39
2	Peripheral Vestibular Forms of Vertigo	41
2.1	Benign Paroxysmal Positioning Vertigo	41
2.1.1	Patient History	41
2.1.2	Clinical Features and Course	42
2.1.3	Pathophysiology and Therapeutic Principles	44
2.1.4	Pragmatic Therapy	47

2.1.5	Benign Paroxysmal Positioning Vertigo of the Horizontal Canal	50
2.1.6	Differential Diagnosis and Clinical Problems	52
2.1.7	Central Positional Vertigo/Nystagmus	52
2.2	Vestibular Neuritis (Acute Partial Unilateral Vestibular Deficit)	55
2.2.1	Patient History	55
2.2.2	Clinical Features and Course	55
2.2.3	Aetiology, Pathophysiology and Therapeutic Principles	56
2.2.4	Pragmatic Therapy	59
2.2.5	Differential Diagnosis and Clinical Problems	61
2.3	Menière's Disease	64
2.3.1	Patient History	64
2.3.2	Clinical Syndrome and Course	64
2.3.3	Aetiology, Pathophysiology and Therapeutic Principles	66
2.3.4	Pragmatic Therapy	67
2.3.5	Differential Diagnosis and Clinical Problems	68
2.4	Vestibular Paroxysmia	70
2.4.1	Patient History	70
2.4.2	Clinical Aspects and Course	70
2.4.3	Aetiology, Pathophysiology and Therapeutic Principles	71
2.4.4	Pragmatic Therapy	73
2.4.5	Differential Diagnosis and Clinical Problems	74
2.5	Bilateral Vestibulopathy	75
2.5.1	Patient History	75
2.5.2	Clinical Aspects and Natural Course	75
2.5.3	Aetiology, Pathophysiology and Therapeutic Principles	76
2.5.4	Pragmatic Therapy	77
2.5.5	Differential Diagnosis and Clinical Problems	80
2.6	Perilymph Fistulas	81
2.6.1	Patient History	81
2.6.2	Clinical Aspects and Course	81
2.6.3	Pathophysiology and Therapeutic Principles	83
2.6.4	Pragmatic Therapy	86
2.6.5	Differential Diagnosis and Clinical Problems	86
3	Central Vestibular Forms of Vertigo	89
3.1	Central Vestibular Syndromes	91
3.1.1	Clinical Aspects, Course of Disease, Pathophysiology and Therapeutic Principles	91
3.1.2	Central Vestibular Syndromes in the Three Planes of Action of the Vestibulo-ocular Reflex	91
3.2	Basilar/Vestibular Migraine	103

3.2.1	Patient History	103
3.2.2	Clinical Aspects and Course	103
3.2.3	Pathophysiology and Therapeutic Principles	105
3.2.4	Pragmatic Therapy	105
3.2.5	Ineffective Treatments	106
3.2.6	Differential Diagnosis and Clinical Problems	106
4	Traumatic Forms of Vertigo	109
4.1	Traumatic Peripheral Vestibular Vertigo/Dizziness ..	109
4.1.1	Benign Paroxysmal Positioning Vertigo	109
4.1.2	Traumatic Labyrinthine Failure	110
4.1.3	Perilymph Fistula	111
4.1.4	Alternobaric Vertigo	112
4.1.5	Otolith Vertigo	112
4.2	Traumatic Central Vestibular Forms of Vertigo	113
4.3	Traumatic Cervical Vertigo	113
4.4	Post-traumatic Psychogenic Vertigo	114
5	Psychogenic Forms of Vertigo and Dizziness	115
5.1	Phobic Postural Vertigo	116
5.1.1	Patient History	116
5.1.2	Clinical Aspects and Course of the Illness	117
5.1.3	Pathophysiology and Therapeutic Principles	118
5.1.4	Pragmatic Therapy	120
5.1.5	Differential Diagnosis and Clinical Problems	121
6	Various Vertigo Syndromes	123
6.1	Vertigo/Dizziness in Childhood and Hereditary Vertigo Syndromes	123
6.1.1	Benign Paroxysmal Vertigo of Childhood	126
6.1.2	Familial Episodic Ataxia Types 1 and 2	126
6.1.3	Motion Sickness	126
6.2	Drug-induced Vertigo	127
6.3	Cervicogenic Vertigo	128
6.4	Motion Sickness	129
6.4.1	Clinical Aspects and Pathogenesis	129
6.4.2	Course and Therapy	131
6.4.3	Pragmatic Therapy	132
6.5	Height Vertigo	134
6.5.1	Syndromal Aspects and Pathogenesis	134
6.5.2	Course and Therapy	136
Index	139
List of Videos	147