

Contents

1 Brain Tumors

FRANCISCO DE ASÍS BRAVO-RODRÍGUEZ AND ROCÍO DÍAZ-AGUILERA	1
Case 1 Brain Parenchymal Metastases.....	2
Case 2 Anaplastic Astrocytoma	4
Case 3 Ganglioglioma	6
Case 4 Oligodendroglioma	8
Case 5 Dysembryoplastic Neuroepithelial Tumor (DNET)	10
Case 6 Intracranial Ependymoma	12
Case 7 Hemangioblastoma	14
Case 8 Medulloblastoma	16
Case 9 Pleomorphic Xanthoastrocytoma	18
Case 10 Meningioma	20
Further Reading	22

2 Orbit and Sellar Region

FRANCISCO DE ASÍS BRAVO-RODRÍGUEZ AND ROCÍO DÍAZ-AGUILERA	23
Case 1 Choroidal Melanoma.....	24
Case 2 Grave's Ophthalmopathy.....	26
Case 3 Inflammatory Pseudotumor of the Orbit.....	28
Case 4 Orbital Hemangioma.....	30
Case 5 Orbital Lymphoma.....	32
Case 6 Optic Nerve Sheath Meningioma.....	34
Case 7 Craniopharyngioma	36
Case 8 Hypothalamic Hamartoma.....	38
Case 9 Pituitary Adenoma.....	40
Case 10 Rathke's Cleft Cyst	42
Further Reading	44

3 Ear, Nasal, and Paranasal Sinuses

FRANCISCO DE ASÍS BRAVO-RODRÍGUEZ AND ROCÍO DÍAZ-AGUILERA	45
Case 1 Antrochoanal Polyp.....	46
Case 2 Inverted Papilloma.....	48
Case 3 Nasosinusual Polyposis.....	50
Case 4 Sinus Mucocele.....	52
Case 5 Osteoma.....	54
Case 6 Rhinocerebral Mucormycosis	56
Case 7 Sinonasal Carcinoma.....	58
Case 8 Acoustic Neuroma	60

Case 9	Cholesteatoma	62
Case 10	Jugulotympanic Glomus Tumor	64
Further Reading		66
4 Orocervical Region		
FRANCISCO DE ASÍS BRAVO-RODRÍGUEZ AND ROCÍO DÍAZ-AGUILERA		67
Case 1	Adenoid Cystic Carcinoma.....	68
Case 2	Branchial Cleft Cyst.....	70
Case 3	Carotid Body Paraganglioma.....	72
Case 4	Cervical Abscess.....	74
Case 5	Juvenile Nasopharyngeal Angiofibroma.....	76
Case 6	Laryngeal Carcinoma	78
Case 7	Nasopharyngeal Carcinoma.....	80
Case 8	Pleomorphic Adenoma	82
Case 9	Warthin's Tumor.....	84
Case 10	Sialolithiasis	86
Further Reading		88
5 Spine		
FRANCISCO DE ASÍS BRAVO-RODRÍGUEZ AND ROCÍO DÍAZ-AGUILERA		89
Case 1	Spondylodiscitis.....	90
Case 2	Spinal Metastatic Disease	92
Case 3	Spinal Hemangioma	94
Case 4	Spinal Neurinoma	96
Case 5	Spinal Meningioma	98
Case 6	Spinal Epidural Hematoma.....	100
Case 7	Spinal Cord Astrocytoma	102
Case 8	Myxopapillary Ependymoma.....	104
Case 9	Transverse Myelitis	106
Case 10	Spinal Cord Vascular Malformation	108
Further Reading		110
6 Neuropediatric		
LUIZ CELSO HYGINO DA CRUZ JR., RAQUEL RIBEIRO BATISTA, TAÍSA DAVAUS GASPARETTO, AND CLÁUDIO DE CARVALHO RANGEL		111
Case 1	X-Linked Adrenoleukodystrophy	112
Case 2	Alexander Disease	114
Case 3	Septo-Optic Dysplasia.....	116
Case 4	Pilocytic Astrocytoma.....	118
Case 5	Lissencephaly	120
Case 6	Acute Disseminated Encephalomyelitis (ADEM)	122
Case 7	Chiari I Malformation.....	124
Case 8	Congenital Cytomegalovirus Infection.....	126
Case 9	Dandy-Walker Malformation.....	128
Case 10	Neurofibromatosis Type 1.....	130
Further Reading		132

7 Vascular Diseases

FRANCISCO DE ASÍS BRAVO-RODRÍGUEZ AND ROCÍO DÍAZ-AGUILERA	133
Case 1 Carotid Artery Dissection.....	134
Case 2 Cerebral Venous Thrombosis.....	136
Case 3 Cavernous Angioma	138
Case 4 Cerebral Dural Arteriovenous Fistula.....	140
Case 5 Subarachnoid Hemorrhage	142
Case 6 Moyamoya Disease.....	144
Case 7 Posterior Reversible Encephalopathy Syndrome.....	146
Case 8 Intraparenchymal Haematoma	148
Case 9 Vein of Galen Malformation.....	150
Case 10 Cranial Nerve Neurovascular Compression.....	152
Further Reading	154

8 Diffusion and Spectroscopy

LUIZ CELSO HYGINO DA CRUZ JR. AND RAFAEL FERRACINI CABRAL	155
Case 1 Acute Ischemic Stroke.....	158
Case 2 Bipolar Affective Disorder	160
Case 3 Canavan Disease.....	162
Case 4 Epidermoid Tumor	164
Case 5 Epidural Empyema.....	166
Case 6 Hepatic Encephalopathy.....	168
Case 7 HIV Encephalitis	170
Case 8 Leigh Disease	172
Case 9 Lymphoma	174
Case 10 Pyogenic Brain Abscess.....	176
Further Reading	178

9 DTI and Bold MR Imaging

LUIZ CELSO HYGINO DA CRUZ JR., ISABELA GARCIA VIEIRA, AND TATIANA CHINEM TAKAYASSU	179
Case 1 Semilobar Holoprosencephaly.....	182
Case 2 Low-Grade Glioma.....	184
Case 3 Gliomatosis Cerebri.....	186
Case 4 Alzheimer Disease	188
Case 5 Arteriovenous Malformation	190
Case 6 Amyotrophic Lateral Sclerosis.....	192
Case 7 Diffuse Axonal Injury	194
Case 8 Multiple Sclerosis.....	196
Case 9 Focal Cortical Dysplasia and Seizure	198
Case 10 High-Grade Tumor	200
Further Reading	202

10 Miscellaneous

FRANCISCO DE ASÍS BRAVO-RODRÍGUEZ AND ROCÍO DÍAZ-AGUILERA	205
Case 1 Arachnoid Cyst.....	206
Case 2 Colloid Cyst.....	208
Case 3 Cerebral Toxoplasmosis	210
Case 4 Herpes Simplex Encephalitis	212
Case 5 Meningitis.....	214
Case 6 Neuro-Behçet's Disease.....	216
Case 7 Progressive Multifocal Leukoencephalopathy	218
Case 8 Intracranial Hypotension Syndrome.....	220
Case 9 Acute Head Trauma	222
Case 10 Ranula	224
Further Reading	226