

Contents

1 Tumoral Neurology

Case 1.1	Pilocytic Astrocytoma	2
	BEATRIZ AVILA GAMARRA AND MARÍA I. MARTÍNEZ LEÓN	
Case 1.2	Pilomyxoid Astrocytoma	4
	MARÍA I. MARTÍNEZ LEÓN	
Case 1.3	Ependymoma	6
	ELENA GARCÍA ESPARZA	
Case 1.4	Infrequent Presentation of Medulloblastoma	8
	DIEGO ALCAIDE MARTÍN AND MARÍA I. MARTÍNEZ LEÓN	
Case 1.5	Brainstem Tumors	10
	ELENA MÉNDEZ DONAIRE AND MARÍA I. MARTÍNEZ LEÓN	
Case 1.6	Choroid Plexus Tumors	12
	MARÍA I. MARTÍNEZ LEÓN	
Case 1.7	Atypical Teratoid/Rhabdoid Tumor of the CNS	14
	ANA G. CARVAJAL REYES AND MARÍA I. MARTÍNEZ LEÓN	
Case 1.8	Glioblastoma	16
	BEATRIZ ASENJO GARCÍA	
Case 1.9	Rhabdomyosarcoma	18
	MIGUEL ÁNGEL LÓPEZ PINO	
Case 1.10	Pineoblastoma	20
	MARÍA VIDAL DENIS AND MARÍA I. MARTÍNEZ LEÓN	
	Further Reading	22

2 Tumoral and Non-tumoral Neurology

Case 2.1	Nasal Chondromesenchymal Hamartoma	26
	L. SANTIAGO MEDINA AND SARA M. KOENIG	
Case 2.2	Pleomorphic Xanthoastrocytoma	28
	FRANCISCO MENOR SERRANO AND MARÍA JESÚS ESTEBAN RICÓS	
Case 2.3	Desmoplastic Infantile Ganglioglioma	30
	MARÍA I. MARTÍNEZ LEÓN	

Case 2.4	Dysembryoplastic Neuroepithelial Tumor of the Septum Pellucidum (DNET SP).....	32
	MARÍA I. MARTÍNEZ LEÓN AND BERNARDO WEIL LARA	
Case 2.5	CNS Langerhans Cell Histiocytosis	34
	DIEGO ALCAIDE MARTÍN AND MARÍA I. MARTÍNEZ LEÓN	
Case 2.6	Hemangioma of Infancy	36
	CRISTINA BRAVO BRAVO AND PASCUAL GARCÍA-HERRERA TAILLEFER	
Case 2.7	Vascular Lesion of the Face	38
	SARA M. KOENIG AND JUAN E. GUTIÉRREZ	
Case 2.8	Retinoblastoma	40
	JUAN E. GUTIÉRREZ AND SARA M. KOENIG	
Case 2.9	Tuberous Sclerosis	42
	ANA ALONSO MURCIANO AND MARÍA I. MARTÍNEZ LEÓN	
Case 2.10	Neurofibromatosis Type 1	44
	INÉS SOLÍS MUÑIZ	
	Further Reading	46

3 Non-tumoral Neurology

Case 3.1	Acute Disseminated Encephalomyelitis	52
	ELISA CUARTERO MARTÍNEZ AND MARÍA I. MARTÍNEZ LEÓN	
Case 3.2	Multiple Sclerosis	54
	BEATRIZ ASENJO GARCÍA	
Case 3.3	Posterior Reversible Encephalopathy Syndrome	56
	MIGUEL ANGEL LÓPEZ PINO	
Case 3.4	Focal Cortical Dysplasia	58
	MERCEDES BERNABÉ DURÁN AND MARÍA I. MARTÍNEZ LEÓN	
Case 3.5	CNS Takayasu Arteritis	60
	MARÍA I. MARTÍNEZ LEÓN AND JORGE GARÍN FERREIRA	
Case 3.6	Premamilar Ventriculostomy	62
	M. DOLORES DOMÍNGUEZ PINOS AND MARÍA I. MARTÍNEZ LEÓN	
Case 3.7	Bilateral Cystic Microphthalmia (Bilateral Cystic Eye)	64
	LOURDES PARRA RUIZ AND MARÍA I. MARTÍNEZ LEÓN	
Case 3.8	Tuberculous Meningitis	66
	MIGUEL ANGEL LÓPEZ PINO	
Case 3.9	Spinal Epidural Abscess	68
	VÍCTOR PÉREZ CANDELA	

Case 3.10	Mitochondrial Myopathy, Encephalopathy, Lactic Acidosis, and Stroke (MELAS) Syndrome	70
	L. SANTIAGO MEDINA AND SARA M. KOENIG	
	Further Reading	72
4 Thorax		
Case 4.1	Parapneumonic Pleural Effusion	76
	PABLO VALDÉS SOLÍS	
Case 4.2	Primary Pulmonary Tuberculosis	78
	CRISTINA SERRANO GARCÍA	
Case 4.3	Viral Infections	80
	MARÍA ISABEL PADÍN MARTÍN	
Case 4.4	Pulmonary Aspergillosis	82
	GUSTAVO ALBI RODRÍGUEZ	
Case 4.5	Cystic Fibrosis	84
	MARÍA ISABEL PADÍN MARTÍN	
Case 4.6	Cystic Pleuropulmonary Blastoma	86
	HÉCTOR CORTINA ORTOS AND LAURA PELEGRÍ MARTÍNEZ	
Case 4.7	Endobronchial Tumor: Mucoepidermoid Carcinoma	88
	PILAR GARCÍA-PEÑA AND ANA COMA MUÑOZ	
Case 4.8	Pulmonary Artery Sling	90
	CARLOS SANTIAGO RESTREPO AND SUSANA CALLE RESTREPO	
Case 4.9	Partial Anomalous Pulmonary Venous Return (PAPVR)	92
	CARLOS SANTIAGO RESTREPO AND SUSANA CALLE RESTREPO	
Case 4.10	Coarctation of the Aorta	94
	CARLOS MARÍN	
	Further Reading	96
5 Non-tumoral Abdomen		
Case 5.1	Intussusception	100
	PASCUAL GARCÍA-HERRERA TAILLEFER AND CRISTINA BRAVO BRAVO	
Case 5.2	Hypertrophic Pyloric Stenosis	102
	PASCUAL GARCÍA-HERRERA TAILLEFER AND CRISTINA BRAVO BRAVO	
Case 5.3	Mesenteric Lymphadenopathy in Children	104
	PABLO VALDÉS SOLÍS	

Case 5.4	Acute Appendicitis	106
	PABLO VALDÉS SOLÍS	
Case 5.5	Inflammatory Bowel Disease.	108
	JUIO RAMBLA VILAR AND CINTA SANGÜESA NEBOT	
Case 5.6	Pancreatic Trauma	110
	INÉS SOLÍS MUÑIZ	
Case 5.7	Focal Nodular Hyperplasia	112
	MARÍA VIDAL DENIS AND MARÍA I. MARTÍNEZ LEÓN	
Case 5.8	Ascariasis	114
	SILVIA VILLA SANTAMARÍA AND SUSANA CALLE RESTREPO	
Case 5.9	Congenital Imperforate Hymen with Hydrocolpos	116
	PASCUAL GARCÍA-HERRERA TAILLEFER AND CRISTINA BRAVO BRAVO	
Case 5.10	Intrauterine Spermatic Cord Torsion	118
	FRANCISCO PÉREZ NADAL	
	Further Reading	120

6 Tumoral Abdomen

Case 6.1	Neuroblastoma	124
	JULIO RAMBLA VILAR AND MARÍA DOLORES MURO VELILLA	
Case 6.2	Hepatoblastoma	126
	SARA PICÓ ALIAGA AND CINTA SANGÜESA NEBOT	
Case 6.3	Infantile Hemangioendothelioma of the Liver	128
	SUSANA CALLE RESTREPO AND JORGE ANDRÉS SOTO	
Case 6.4	Endodermal Sinus Tumors (Yolk Sac Tumors)	130
	ALEJANDRA DOROTEO LOBATO AND MARÍA I. MARTÍNEZ LEÓN	
Case 6.5	Adrenocortical Tumors	132
	SONIA ROMERO CHAPARRO AND MARÍA I. MARTÍNEZ LEÓN	
Case 6.6	Hodgkin's Lymphoma	134
	ELENA PASTOR PONS AND ANTONIO RODRÍGUEZ FERNÁNDEZ	
Case 6.7	Non-Hodgkin Lymphoma	136
	ELENA PASTOR PONS AND ANTONIO RODRÍGUEZ FERNÁNDEZ	
Case 6.8	Hepatosplenic Candidiasis in Acute Lymphoblastic Leukemia	138
	LUISA CERES RUIZ	

Case 6.9	Cystic Testicular Teratoma	140
	CAROLINA TORRES ALÉS	
Case 6.10	Ovarian Tumor (Yolk Sac Tumor)	142
	LUISA CERES RUIZ	
	Further Reading	144

7 Genitourinary

Case 7.1	Wilms' Tumor	148
	LUISA CERES RUIZ	
Case 7.2	Fetal Rhabdomyomatous Nephroblastoma.....	150
	ROBERTO LLORENS SALVADOR AND CAROLINA RAMÍREZ RIBELLES	
Case 7.3	Mesoblastic Nephroma	152
	LOURDES PARRA RUIZ AND MARÍA I. MARTÍNEZ LEÓN	
Case 7.4	Malignant Rhabdoid Tumor of the Kidney.....	154
	MARÍA I. MARTÍNEZ LEÓN	
Case 7.5	Megacystis-Microcolon-Intestinal Hypoperistalsis Syndrome (Berdon Syndrome).....	156
	LUISA CERES RUIZ	
Case 7.6	Ossifying Renal Tumor of Infancy.....	158
	SILVIA VILLA SANTAMARÍA AND SUSANA CALLE RESTREPO	
Case 7.7	Xanthogranulomatous Pyelonephritis.....	160
	ALEJANDRA DOROTEO LOBATO AND MARÍA I. MARTÍNEZ LEÓN	
Case 7.8	Ureteral Duplications.....	162
	LUISA CERES RUIZ	
Case 7.9	Renal Trauma	164
	LUISA CERES RUIZ	
Case 7.10	Renal Candidiasis.....	166
	SILVIA VILLA SANTAMARÍA AND SUSANA CALLE RESTREPO	
	Further Reading	168

8 Musculoskeletal

Case 8.1	Legg-Calve-Perthes Disease	172
	IGNASI BARBER MARTÍNEZ DE LA TORRE	
Case 8.2	Perisciatic Pyomyositis	174
	HÉCTOR CORTINA ORTS AND NAIARA LINARES MARTÍNEZ	
Case 8.3	Chronic Recurrent Multifocal Osteomyelitis	176
	MARÍA I. MARTÍNEZ LEÓN	

Case 8.4	Spondylodiscitis	178
	MARÍA I. MARTÍNEZ LEÓN	
Case 8.5	Septic Arthritis of the Hip.....	180
	LUISA CERES RUIZ	
Case 8.6	Lipoblastoma.....	182
	MARÍA VIDAL DENIS AND MARÍA I. MARTÍNEZ LEÓN	
Case 8.7	Osteosarcoma	184
	SARA SIRVENT CERDÁ	
Case 8.8	Ewing's Sarcoma	186
	SARA SIRVENT CERDÁ	
Case 8.9	Lumbar Ewing's Sarcoma.....	188
	JUAN E. GUTIÉRREZ AND L. SANTIAGO MEDINA	
Case 8.10	Granulocytic Sarcoma	190
	ROBERTO LLORENS SALVADOR AND HÉCTOR CORTINA ORTS	
	Further Reading	192

9 Neonatal

Case 9.1	Surfactant Deficiency Disease.....	196
	CARMEN GALLEGO HERRERO	
Case 9.2	Bronchogenic Cyst	198
	ELISA CUARTERO MARTÍNEZ AND MARÍA I. MARTÍNEZ LEÓN	
Case 9.3	Localized Persistent Pulmonary Interstitial Emphysema.....	200
	MARÍA I. MARTÍNEZ LEÓN	
Case 9.4	Posthemorrhagic Hydrocephalus in the Preterm Infant.....	202
	CRISTINA BRAVO BRAVO AND PASCUAL GARCÍA-HERRERA TAILLEFER	
Case 9.5	Hypoxic-Ischemic Encephalopathy in the Full-Term Neonate.....	204
	EVA GÓMEZ ROSELLÓ	
Case 9.6	Cerebral Sinovenous Thrombosis in Neonates.....	206
	CRISTINA BRAVO BRAVO AND PASCUAL GARCÍA-HERRERA TAILLEFER	
Case 9.7	Disseminated Cerebral Candidiasis in Preterm Infants	208
	CRISTINA BRAVO BRAVO AND PASCUAL GARCÍA-HERRERA TAILLEFER	
Case 9.8	Necrotizing Enterocolitis.....	210
	AMPARO MORENO FLORES AND ROBERTO LLORENS SALVADOR	

Case 9.9	Midgut Volvulus	212
	PASCUAL GARCÍA-HERRERA TAILLEFER AND CRISTINA BRAVO BRAVO	
Case 9.10	Portal Calcification Secondary to Umbilical Vein Catheterization.....	214
	CRISTINA SERRANO GARCÍA	
Further Reading		216

10 Fetal

Case 10.1	Fetal Open-Lip Schizencephaly.....	220
	MARÍA I. MARTÍNEZ LEÓN	
Case 10.2	Classic Lissencephaly.....	222
	IGNACIO ALONSO USABIAGA	
Case 10.3	Fetal Thyrocervical Teratoma.....	224
	MARÍA I. MARTÍNEZ LEÓN	
Case 10.4	Congenital Cystic Adenomatoid Malformation, Type II.....	226
	CÉSAR MARTÍN MARTÍNEZ	
Case 10.5	Congenital Diaphragmatic Hernia.....	228
	IGNACIO ALONSO USABIAGA	
Case 10.6	Multicystic Dysplasia of the Kidney.....	230
	IGNACIO ALONSO USABIAGA	
Case 10.7	Fetal Posterior Urethral Valves	232
	LUISA CERES RUIZ	
Case 10.8	Fetal Jejunal Atresia	234
	ROBERTO LLORENS SALVADOR AND AMPARO MORENO FLORES	
Case 10.9	Prune Belly Syndrome (Eagle-Barrett Syndrome)	236
	IGNACIO ALONSO USABIAGA	
Case 10.10	Gastroschisis	238
	MARÍA I. MARTÍNEZ LEÓN	
Further Reading		240