

Contents

Foreword	xiii
Preface	xv
Contributors	xvii
List of Abbreviations	xix

Section I: Brain

1: Supratentorial Brain Neoplasms	2
2: Infratentorial Brain Neoplasms	4
3: Metastatic Brain Disease	6
4: Meningiomas	8
5: Internal Auditory Canal Neoplasms	10
6: Sellar/Parasellar Neoplasms	12
7: Diploic Space Lesions	14
8: Intraparenchymal Hemorrhage	16
9: Extraaxial and Subarachnoid Hemorrhage	18
10: Arteriovenous Malformations	20
11: Other Vascular Malformations	22
12: Aneurysms	24
13: Ischemia and Infarction I	26
14: Ischemia and Infarction II	29

15: Periventricular Leukomalacia 32

16: Diffuse Axonal Injury 33

17: Neurodegenerative Disorders 34

18: Multiple Sclerosis 36

19: Parenchymal Infections 38

20: Sinus Disease 40

21: Meningitis 42

22: Immunocompromise 44

23: Posterior Fossa Congenital Malformations 46

24: Arachnoid Cysts 48

25: Other Congenital Malformations 50

26: Inherited White Matter Disease 52

27: Neurofibromatosis and von Hippel-Lindau Syndrome 54

28: Tuberous Sclerosis and Sturge-Weber Syndrome 56

Section II: Cervical Spine

29: Congenital Abnormalities 58

30: Trauma 60

31: Disk Herniations 62

32: Degenerative Disease 64

33: Rheumatoid and Postoperative Changes 67

34: Other Inflammatory/Infectious Diseases 69

35: Metastatic Disease 72

36: Primary Neoplasms 74

Section III: Thoracic Spine

37: Disk Herniations 77

38: Canal Compromise 80

39: Primary Neoplasms 82

40: Vascular Abnormalities 84

Section IV: Lumbar Spine

41: Congenital Abnormalities	86
42: Common Incidental Findings	88
43: Compression Fractures	90
44: Disk Herniations	92
45: Postoperative Lumbar Spine	94
46: Degenerative Disk Disease I	96
47: Degenerative Disk Disease II	98
48: Infections	100
49: Metastatic Disease	102
50: Disorders of Marrow	104
51: Primary Neoplasms	106
52: Leptomeningeal Carcinomatosis	110

Section V: Head and Neck

53: Common Incidental Findings	113
54: Neoplasia I	116
55: Neoplasia II	118
56: Infections	120

Section VI: Heart and Chest

57: Cardiomyopathy	122
58: Ischemic Heart Disease	124
59: Valvular Heart Disease	126
60: Congenital Heart Disease	128
61: Thoracic Vasculature	130
62: Thoracic Neoplasia	132

Section VII: Breast

63: Breast Neoplasia	134
64: Breast Implants	136

Section VIII: Abdomen and Pelvis

65: Benign Hepatic Masses 138

66: Malignant Hepatic Masses 140

67: Diffuse Hepatic Pathology 142

68: Biliary Disease 144

69: Adrenal Disease 146

70: Renal Masses 148

71: Pancreatic Disease 150

72: Pediatric Abdominal Disease 152

73: Urinary Bladder and Male Pelvis 154

74: Benign Lesions of the Female Pelvis 157

75: Uterine and Cervical Cancer 160

76: Ovarian Pathology 162

Section IX: Musculoskeletal System

77: Meniscal Tears I 164

78: Meniscal Tears II 166

79: Cruciate Ligaments 168

80: Collateral Ligaments, Knee 170

81: Osteochondral Lesions, Knee 172

82: Rotator Cuff Tears 174

83: Glenohumeral Instability I 176

84: Glenohumeral Instability II, Labrum 178

85: Avascular Necrosis of the Hip 180

86: Insufficiency Fractures, Acetabular Labrum 182

87: Carpal Tunnel Disease and Wrist Fractures 184

88: Triangular Fibrocartilage Complex Tears 186

89: Carpal Fractures and Other Causes of Wrist Pain 188

90: Temporomandibular Joint Disease 190

91: Elbow Injuries 192

92: Tendinous Injuries of the Ankle and Foot	194
93: Ligamentous Injuries of the Ankle	196
94: Other Ankle and Foot Disorders	198
95: Musculoskeletal Neoplasms	200
96: Diseases of Marrow	202

Section X: MR Contrast Agents

97: Overview of MR Contrast Agents	204
98: Adverse Reactions	206

Section XI: Magnetic Resonance Angiography

99: MRA Principles and Carotid MRA	208
100: Peripheral MRA	212
101: Renal Artery MRA	216
102: Other MRA Applications	218
Index	221