Contents

Foreword *v*
Preface *vii*
Acknowledgements *xii*

Chapter 1 Understanding normal results
1.1 Plain radiography 1
1.2 Ultrasound 4
1.3 Computerised tomography 7
1.4 Magnetic resonance imaging 10
1.5 Nuclear medicine 13

Chapter 2 Recognising abnormalities
2.1 Bony abnormalities 17
2.2 Tendon and ligament abnormalities 28
2.3 Muscular abnormalities 32
2.4 Soft tissue abnormalities 34

Chapter 3 Shoulder
3.1 Key anatomy 43
3.2 Shoulder dislocations 47
3.3 Acromioclavicular joint and clavicle injuries 50
3.4 Proximal humeral fractures 52
3.5 Rotator cuff pathology 55
3.6 Glenoid labral pathology 57

Chapter 4 Elbow
4.1 Key anatomy 61
4.2 Elbow trauma 64
4.3 Epicondylitis 67
4.4 Distal biceps tendon rupture 70

Chapter 5 Wrist and hand
5.1 Key anatomy 73
5.2 Distal forearm fractures 76
5.3 Carpal injuries 79
5.4 Hand injuries 84

5.5 De Quervain's disease 87
5.6 Triangular fibrocartilage complex pathology 89
5.7 Ulnar collateral ligament of thumb injuries 91

Chapter 6 Pelvic girdle and hip
6.1 Key anatomy 95
6.2 Avulsion fractures of the pelvis 98
6.3 Pelvic fractures 102
6.4 Femoral neck fractures 106
6.5 Developmental dysplasia of the hip 109
6.6 Acetabular labral pathology 111
6.7 Slipped upper femoral epiphyses 114
6.8 Perthes disease (Legg–Calvé–Perthes disease) 116
6.9 Avascular necrosis of the hip 118

Chapter 7 Knee
7.1 Key anatomy 123
7.2 Knee and tibial injuries 125
7.3 Meniscal pathology 129
7.4 Anterior cruciate ligament tears 132
7.5 Medial collateral ligament injuries 134
7.6 Quadriceps tendon injuries 136
7.7 Osgood–Schlatter disease 137
7.8 Baker's cyst 139

Chapter 8 Foot and ankle
8.1 Key anatomy 141
8.2 Ankle injuries 144
8.3 Foot injuries 149
8.4 Achilles tendon pathology 153
8.5 Tibialis posterior dysfunction 156
8.6 Morton's neuroma 158
8.7 Tarsal coalition 160

Chapter 9 Spine
9.1 Key anatomy 165
9.2 Atlantoaxial fractures 169
9.3 Vertebral fractures 173
9.4 Facet injuries 176

9.5 Scoliosis 180
9.6 Spondylolisthesis 182
9.7 Intervertebral disc herniation 186
9.8 Discitis 189
9.9 Spinal stenosis and cord compression 195

Chapter 10 Bony lesions
10.1 Bone tumours 201
10.2 Arthritides 219
10.3 Paget's disease 231
10.4 Medullary bone infarcts 236
10.5 Osteomyelitis 240
10.6 Osteochondritis dissecans 244
10.7 Rickets 247

Index *249*