

Direct Diagnosis in Radiology

# Spinal Imaging

H. Imhof, et al.



***Dx-Direct!***



**Thieme**

## 1 Congenital Malformations

*Christina Mueller-Mang, Daniela Prayer, Klaus M. Friedrich, Michael Matzner*

Arnold–Chiari Malformation .....	1	Vertebral Malformations .....	21
Lumbarization and Sacralization ..	4	Klippel–Feil Syndrome .....	26
Diastematomyelia .....	6	Kyphosis .....	29
Tethering .....	9	Scheuermann Disease .....	33
Sacrococcygeal Teratoma .....	13	Scoliosis .....	36
Meningocele, Myelomeningocele .	16	Malrotation .....	40

## 2 Trauma

*Christina Mueller-Mang, Daniela Prayer, Klaus M. Friedrich, Florian Wolf,  
Michael Matzner, Herwig Imhof*

Spinal Injury—		Hangman's Fracture .....	63
Magerl Classification .....	43	Spinal Cord Trauma .....	66
Vertebral Fractures—Causes .....	45	Syringohydromyelia .....	69
Dens Fracture .....	48	Anterior Subluxation .....	73
Flexion Fracture of the		Insufficiency Fracture	
Cervical Spine .....	51	of the Sacrum .....	76
Burst Fracture of the Spine .....	54	Stress Phenomena in the Spine ....	79
Chance Fracture		Stress Fractures in Ankylosing	
(Seat Belt Fracture) .....	58	Spondylitis .....	83
Jefferson Fracture .....	60		

## 3 Degenerative Disorders

*Iris-Melanie Noebauer-Huhmann, Benjamin Halpern, Michael Matzner, Herwig Imhof*

Disk Degeneration .....	87	Facet Joint Degeneration .....	111
Degenerative Disk Disease—		Uncovertebral Osteoarthritis .....	116
Modic I .....	90	Synovial Cyst .....	118
Degenerative Disk Disease—		Hypertrophy of the	
Modic II .....	93	Ligamenta Flava .....	120
Spondylosis Deformans—		Baastrup Disease .....	121
Modic III .....	96	Spondylolisthesis and	
Disk Herniation .....	100	Pseudospondylolisthesis .....	123
Bulge, Protrusion, Extrusion,		Degenerative Spinal Stenosis .....	126
Sequestration .....	103	Diffuse Idiopathic Skeletal	
Disk Calcification and		Hyperostosis .....	131
Vacuum Phenomenon .....	108		

#### 4 Inflammatory Disorders

*Christina Mueller-Mang, Daniela Prayer, Andreas M. Herneth,  
Oliver Sommer, Michael Matzner, Herwig Imhof*

Rheumatoid Arthritis .....	133	Acute Bacterial Spondylitis .....	158
Rheumatoid Arthritis—		Tuberculous Spondylitis .....	166
Chronic Trauma .....	138	Epidural Abscess .....	172
Psoriatic Spondyloarthropathy ...	141	Granulomatous Inflammations of the Spinal Cord .....	175
Reiter Syndrome .....	144	Arachnoiditis .....	178
Ankylosing Spondylitis .....	147	Acute Transverse Myelitis .....	182
Ankylosing Spondylitis—		Spinal Multiple Sclerosis .....	186
Ligament Calcification and Bamboo Spine .....	152		
Ankylosing Spondylitis—			
Fractures .....	154		

#### 5 Tumors

*Andreas M. Herneth, Christina Mueller-Mang, Daniela Prayer,  
Michael Matzner, Herwig Imhof*

Hemangioma .....	190	Chordoma .....	226
Osteoid Osteoma .....	195	Ewing Sarcoma .....	229
Osteoblastoma .....	198	Lymphoma .....	232
Osteochondroma .....	201	Nerve Sheath Tumors .....	237
Aneurysmal Bone Cyst .....	204	Leptomeningeal and Intramedullary Metastases .....	240
Giant Cell Tumor .....	208	Meningioma .....	244
Langerhans Cell Histiocytosis ....	212	Ependymoma .....	248
Malignant Tumors .....	215	Astrocytoma .....	252
Bone Metastases .....	216	Hemangioblastoma .....	256
Multiple Myeloma .....	222		

#### 6 Vascular Disorders

*Christina Mueller-Mang, Daniela Prayer*

Epidural Hematoma .....	259
Arteriovenous Malformation .....	262
Arterial Spinal Cord Infarction ..	266

**7 Postoperative Disorders**

*Andreas M. Herneth, Michael Matzner, Herwig Imhof*

Failed Back Surgery Syndrome ..	270
CSF Fistula .....	272
Peridural Fibrosis .....	275

Rapidly Progressive Osteoarthritis (After Intersegmental Fusion) ....	277
Complications of Spinal Instrumentation .....	280

**8 Metabolic Disorders**

*Andreas M. Herneth, Herwig Imhof*

Senile and Postmenopausal Osteoporosis .....	287
---	-----

Paget Disease .....	291
Spinal Epidural Lipomatosis .....	293

<b>Index</b> .....	295
--------------------	-----