Essential Musculoskeletal MRI. A Primer for the Clinician

Description: Essential Musculoskeletal MRI is a clinically based manual written by experts in both musculoskeletal MRI and musculoskeletal medicine. It explains when and why patients should be referred for this type of imaging and is an essential purchase for any student or clinician wishing to hone their MRI reading skills and to interpret their findings in conjunction with patient symptoms. The book assumes no previous knowledge of diagnostic imaging and covers the appearance of normal anatomy under MRI, as well as the radiological features of the most commonly encountered regional pathologies, with emphasis on those with musculoskeletal relevance.

The content is regionally organised, rather than driven by pathology, and the focus is clearly on clinical application.

Worked clinical examples develop diagnostic thinking and the numerous images help clinicians to recognise patterns.

Contents: Introduction - MRI (35):
Theory
Spin
Nuclear Magnetic Resonance
Resonance detection
Imaging
MRI parameters
Spin echo sequences
Pulse sequences
Fast spin echo
STIR
Gradient echo
Contrast enhancement
The Patient experience
MRI equipment
Imaging protocols
Contraindications and complications
Clinical decision making

Part 1: The Spine

Cervical Spine.
Normal anatomy and variants
Pathomechanics
Degenerative joint disease
Degenerative disc disease
Ligamentum flavum hypertrophy
Pathology
Syringomyelia
Inflammatory arthritides
Disc lesions
Spinal cord lesions
Infection
Tumours (osseous and soft tissue) - primary and secondary
Trauma
Surgical approaches
Clinical Correlation and decision-making
Radiculitis
Cervical spondylotic myelopathy
SMT and contraindications
Whiplash
Summary (“Clinical Pearls?”)

Thoracic Spine. Normal anatomy and variants
Pathomechanics
Degenerative joint disease
Degenerative disc disease
Ligamentum flavum hypertrophy

Pathology
Syringomyelia
Inflammatory arthritides
Disc lesions
Spinal cord lesions
Infection
Tumours (osseous and soft tissue) - primary and secondary
Trauma
Surgical approaches
Clinical Correlation and decision-making
Scheuermann’s disease
Osteoporosis
Summary (“Clinical Pearls?”)

Lumbar Spine & Pelvis. Normal anatomy and variants
Pathomechanics
Degenerative joint disease
Degenerative disc disease
Ligamentum flavum hypertrophy

Modic changes
Canal stenosis
Sacro-iliac joints
Pathology
Inflammatory arthritides
Disc lesions
Infection
Tumours (osseous and soft tissue) - prim and sec
Infection
Trauma
Surgical approaches
Clinical Correlation and decision-making
Radiculitis
Cauda Equina Syndrome
Summary (“Clinical Pearls?”)

Part 2: The Upper Extremity

Shoulder Normal anatomy and variants
Pathomechanics
Degenerative joint disease
Hill-Sachs defect
Pathology
Inflammatory arthritides
Synoviochondrometaplasia
HADD
SLAP lesions
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Trauma
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Clinical Correlation and decision-making
Rotator cuff injuries
Bicipital tendinitis
Adhesive capsulitis
Acromioclavicular injury
Summary ("Clinical Pearls?")

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Pathomechanics
Degenerative joint disease
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Synoviochondrometaplasia
PVNS
Neuropathies
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Trauma
Infection
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Surgical approaches
Clinical Correlation and decision-making
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Medial Epicondylitis
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Cubital Tunnel Syndrome
Ligamentous injury
Summary ("Clinical Pearls?")

Wrist & Hand
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Pathology
Inflammatory arthritides
Rheumatology
Neuropathies
Tumours - prim and secondary
Trauma
Infection
Avascular necrosis
Soft tissue injury
Surgical approaches
Clinical Correlation and decision-making
Ulnar Nerve Palsy
Carpal Tunnel Syndrome
Stenosing Tenosynovitis
Avascular Necrosis
Summary ("Clinical Pearls?")

Part 3: The Lower Extremity
Hip  Normal anatomy and variants  Pathomechanics  Degenerative joint disease
Developmental dysplasias  
Pathology
Inflammatory arthritides
Synoviochondrometaplasia
HADD
Avascular necrosis
PVNS
Tumours - prim and secondary
Trauma
Infection
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Surgical approaches
Clinical Correlation and decision-making
Musculotendinous injury
Ligamentous injury
Cox arthrosis
Bursitis
Avascular necrosis
Summary ("Clinical Pearls?)

Knee  Normal anatomy and variants  Pathomechanics  Degenerative joint disease
Degenerative disc disease
Bony contusions  Pathology
Inflammatory arthritides
Synoviochondrometaplasia
CPPD
Neuropathies
Tumours - prim and secondary
Infection
Osteochondroma
Trauma
Soft tissue injury
Surgical approaches  Clinical Correlation and decision-making
Musculotendinous injuries
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Bursitis
Muscular injuries
Summary ("Clinical Pearls?)

Ankle & Foot  Normal anatomy and variants  Pathomechanics  Degenerative joint disease
Os trigonum  Pathology
Inflammatory arthritides
Infection
Tumours - prim and secondary
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Surgical approaches  Clinical Correlation and decision-making
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Plantar fasciitis
Ligamentous injury
Summary ("Clinical Pearls?)

Part 4: The TMJ.  Normal anatomy and variants  Pathomechanics  Degenerative joint disease
Degenerative disc disease
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Pathology
Inflammatory arthritides
Infection
Trauma
Soft tissue injury
Surgical approaches
Clinical Correlation and
decision-making
Summary ("Clinical Pearls?")

(CD-ROM): Clinical Exercises.

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