

T Imaging An Issue Of Radiologic Clinics Of North America 1e The Clinics Radiology

This issue reviews and updates a variety of topics in pancreatic imaging. Pearls on the Multiphasic CT of the pancreas are offered, along with the key MRI techniques for pancreatic imaging. Emerging CT, MR and US techniques for pancreatic evaluation (such as dual energy, DCMRI, spectroscopy, and US contrast) are elucidated. Ultrasound for pancreatic imaging is given a thorough review. An update on staging and resectability of pancreatic adenocarcinoma is discussed. Acute and chronic pancreatitis are reviewed, as well as cystic pancreatic lesions, congenital pancreatic anomalies, uncommon solid pancreatic neoplasms, and other pancreatic pathology. Post-operative imaging of the pancreas is discussed, and finally, an update on endoscopic techniques for the pancreas is provided.

This issue of PET Clinics focuses on Special Techniques and Technical Advances in PET/CT Imaging. Articles will include: PET/CT Guided FNAC/Biopsy; Dual Time Point Imaging; Overview of Conventional imaging based intervention in clinical practice; Special Techniques in PET/CT in evaluating genitourinary malignances; Special techniques in PET/CT imaging for evaluation of head and neck cancer; PET/CT enteroclysis; Contrast media in PET/CT imaging; PET/CT guided RFA; Non-attenuated corrected PET/CT imaging and applications; and more!

MRI contrast agents improve visibility of internal body structures. This issue offers a complete, practically focused review of the use of a variety of contrast agents for MR Imaging. A contrast agent not only must be safe, but also efficacious and cost-effective, and the articles in this issue address all three of these concerns and the uses of contrast agents for a variety of applications.

This issue of Neuroimaging Clinics of North America focuses on Plaque Imaging. Articles will include: 3D carotid plaque MR imaging, Analysis of multi-contrast carotid plaque MR imaging, Incorporating carotid plaque imaging into routine clinical carotid MRA, PET-CT imaging to assess future cardiovascular risk, Utility of combining PET and MR imaging of carotid plaque, 3D carotid plaque ultrasound, Contrast-enhanced carotid plaque ultrasound, Detection of vulnerable plaque in patients with "cryptogenic stroke, Measuring plaque burden in secondary prevention of asymptomatic patients with known carotid stenosis, Plaque imaging in primary prevention of cardiovascular disease, Plaque imaging to decide on optimal treatment: medical versus CEA versus CAS, Clinical perspective of carotid plaque imaging, and more!

Topics in Transplantation Imaging, An Issue of Radiologic Clinics of North America, E-Book

Gastrointestinal Imaging, An Issue of Gastroenterology Clinics of North America, Ebook

Advanced Musculoskeletal MR Imaging, An Issue of Magnetic Resonance Imaging Clinics of North America E-Book

Advanced MR Techniques for Imaging the Abdomen and Pelvis, An Issue of Magnetic Resonance Imaging

Clinics of North America, E-Book

Topics in Spine Imaging, An Issue of Radiologic Clinics of North America, Ebook

This publication presents topics on Current Clinical Indications for Breast MRI; How to set up breast MRI practice; MR-BIRADS Lexicon; Optimization of breast MRI at 1.5 Tesla(T) and at 3 Tesla; Role of MRI in evaluating extent of disease; Update on Screening breast MRI in high risk women; MRI of DCIS; Role of breast MRI in the assessment of Invasive lobular carcinoma; Breast MRI Interventions: Indications, Technique, and Histologic Correlation; Role of Breast MRI in problem-solving; Benign lesions detected on breast MRI; Clinical Oncologic Perspective of Breast MRI; Role of breast MRI in neo-adjuvant chemotherapy.

This issue of MRI Clinics of North America focuses on 7T MRI and is edited by Dr. Meng Law. Articles will include: 3T vs 7T MRI: Is It Really Worth It?; High Resolution Structural MRI & Quantitative Susceptibility Mapping; High Resolution Neurovascular Imaging at 7T: Arterial Spin Labeling Perfusion, 4-dimensional MR Angiography and Black blood MRI; 7T and Beyond Functional MRI; Sodium and Other UHF MRI; MR-EYE: Ultra High Field MRI of the Human Eye and Orbit at 7T; 7T MRI of Perivascular Spaces; 7T MRI in "Non Lesional" Epilepsy/ Perivascular Spaces; 7T Multiple Sclerosis; 7T Brain Tumors and Radiation Therapy; 7T Musculoskeletal MRI; Body Applications for 7T; MRI Safety at 7T/Implants; 7T Simultaneous MRI PET with PET Insert; GluCest 7T MRI; and more!

This issue of MRI Clinics of North America focuses on Musculoskeletal Imaging: Radiographic/MRI Correlation and is edited by Dr. Anne Cotten. Articles will include: Radiographic/MRI Correlation of the Hip; Radiographic/MRI Correlation of the Knee; Radiographic/MRI Correlation of the Ankle and Foot; Radiographic/MRI Correlation of the Spine; Radiographic/MRI Correlation of Spinal Bony Outlines; Radiographic/MRI Correlation of the Shoulder; Radiographic/MRI Correlation of the Elbow; Radiographic/MRI Correlation of the Wrist and Hand; Radiographic/MRI Correlation of the Pediatric Growth; Radiographic/MRI Correlation of Soft Tissues; Radiographic/MRI Correlation of Tumors; Pitfalls in Pediatric Trauma and Microtrauma; and more

Widely regarded as the cornerstone text in the field, the successful series of editions continues to follow the tradition of a clear and comprehensive presentation of the physical principles and operational aspects of medical imaging. The Essential Physics of Medical Imaging, 4th Edition, is a coherent and thorough compendium of the fundamental principles of the physics, radiation protection, and radiation biology that underlie the practice and profession of medical imaging. Distinguished scientists and educators from the University of California, Davis, provide up-to-date, readable information on the production, characteristics, and interactions of non-ionizing and ionizing radiation, magnetic fields and ultrasound used in medical imaging and the imaging modalities in which they are used, including radiography, mammography,

fluoroscopy, computed tomography, magnetic resonance, ultrasound, and nuclear medicine. This vibrant, full-color text is enhanced by more than 1,000 images, charts, and graphs, including hundreds of new illustrations. This text is a must-have resource for medical imaging professionals, radiology residents who are preparing for Core Exams, and teachers and students in medical physics and biomedical engineering. Features a new introductory overview, plus new information on informatics-oriented concepts, multisource and other x-ray tubes, new quality control procedures for digital radiography, digital breast tomosynthesis, dedicated breast CT, best practices in minimizing fluoroscopy dose to patients and staff, dosimetry in x-ray imaging, 3T and 7T MRI, MR artifacts and solutions, ultrasound elastography, nuclear cardiology, total-body PET imaging, and much more. Provides clear but detailed explanations of the basic science important to nuclear imaging, including the physical properties and production of radioactivity, radiation detection and measurement and completely updated chapters on radiopharmaceuticals and internal dosimetry, SPECT and PET/CT. Addresses topics common to all forms of diagnostic imaging, including image quality and medical informatics as well as the non-ionizing medical imaging modalities of MRI and ultrasound. Introduces a completely updated radiation biology section with current concepts in biological effects at the molecular, cellular and organ systems levels as well as the acute radiation syndrome and the latest assessment of potential biological effects to the fetus, children and adults from medical imaging procedures, as well as principles for effective risk communication. Updates the radiation protection section relevant to all aspects of medical imaging to the latest concepts in patient and staff protection, including current Joint Commission and regulatory quality assurance requirements, as well as radiological emergency medical management.

7T MRI, An Issue of Magnetic Resonance Imaging Clinics of North America

Pediatric Disorders: Practical Imaging Guidelines and Recommendations, An Issue of Radiologic Clinics of North America, E-Book

The Essential Physics of Medical Imaging

Mimics, Pearls and Pitfalls of Head & Neck Imaging, An Issue of Neuroimaging Clinics of North America, E-Book

MR Imaging of the Pancreas, An Issue of Magnetic Resonance Imaging Clinics of North America E-Book

The whole of pediatric imaging is covered in this issue edited by Edward Lee of the Children's Hospital in Boston. Topics include Genitourinary Imaging Evaluation, Pediatric Hepatobiliary MR Imaging, Clinical Application of 3D and 4D MRI Vascular Imaging, CT Pulmonary Angiography, Vascular Anomalies, Static and Functional MDCT and MR Imaging Evaluation of Tracheobronchomalacia, Cartilage Imaging, MR Imaging of Pediatric Muscular Disorders, and MR Imaging of Rheumatologic Diseases.

In this issue of MRI Clinics, guest editor Dr. Mary K. Jesse brings her considerable expertise to the topic of MR Imaging of the Knee. Top experts in the field cover key topics such as MR knee synovitis and synovial pathology, normal variants of the pediatric knee, MR imaging of

knee meniscus, MR post-operative meniscus, and more. Contains 10 relevant, practice-oriented topics including MR posterolateral and posteromedial corner injuries; MR knee cartilage injury and repair surgeries; MR knee bursa and bursal pathology; pre- and post-operative MR of the cruciate ligaments; and more. Provides in-depth clinical reviews on MR imaging of the knee, offering actionable insights for clinical practice. Presents the latest information on this timely, focused topic under the leadership of experienced editors in the field. Authors synthesize and distill the latest research and practice guidelines to create clinically significant, topic-based reviews.

This issue of Radiologic Clinics will focus on the essentials of thoracic imaging. Topics include lung cancer screening and staging systems, radiation dose techniques, nodule characterization, PET/CT in the thorax, MDCT and MR evaluation of thoracic aorta, pulmonary emboli and perfusion imaging, interstitial pneumonias, emphysema and airway imaging, post-operative chest, and thoracic infections in the immunocompromised host.

Editor Hersh Chandarana, MD and authors review Advanced MR Imaging in Clinical Practice. Articles will include: Current Status of Diffusion Weighted Imaging; Current Status of Perfusion Weighted Imaging; Non-gadolinium Enhanced MR Angiography; Pearls and Pitfalls of 3 T imaging; Implementing MR Neurography in Clinical Practice; Imaging around Hardware and Metal; Recent Advances in T1- and T2-Weighted Imaging of the Abdomen and Pelvis; Recent Advances in Neuro and Spine Imaging; Advances in MR Hardware and Software, and more!

Pediatric Body Imaging with Advanced MDCT and MRI, An Issue of Radiologic Clinics of North America, 1.5T Versus 3T

Musculoskeletal Imaging: Radiographic/MRI Correlation, An Issue of Magnetic Resonance Imaging Clinics of North America

Evolving Medical Imaging Techniques, An Issue of PET Clinics,

MR Imaging of The Knee, An Issue of Magnetic Resonance Imaging Clinics of North America, E-Book

This issue discusses the clinical application of PET Imaging in assessing brain tumors, Including what a neuro-oncologist ' s expectations should be. One article discusses how PET can help in developing reliable response evaluation criteria in brain tumors; another reviews modern tracers for brain tumors. The evolving role of PET-MRI in brain tumors is examined. Parametric mapping of multiple PET tracers with MRI response evaluation is reviewed. Another article discusses the role of early and delayed PET imaging and novel quantitative techniques in hybrid imaging for brain tumors. The perspective of pediatric imaging is also given.

This issue of MRI Clinics of North America focuses on Advanced MR Techniques for Imaging the Abdomen and Pelvis and is edited by Dr. Sudhakar Venkatesh. Articles will include: Advances in MR Elastography in Liver; Biliary Tract Imaging; Imaging of the Pancreas; PET/MRI Applications in Abdomen and Pelvis; Abbreviated MR Protocols for the Abdomen and Pelvis; Advances in MR Angiography of Abdomen and Pelvis; Advances in MRI of Prostate; Advances in MRI of the Female Pelvis; Advanced MR Techniques for Imaging the Abdomen and Pelvis; Texture Analysis and AI with MR in Abdomen and Pelvis; Advances in MRI of the Kidneys and Upper Urinary Tract, and

more!

With collaboration of Dr. Alan Buchman, Consulting Editor, Dr. Perry J. Pickhardt has created a comprehensive issue of Gastroenterology Clinics that looks at imaging techniques for gastrointestinal diseases. Experts in their respective fields have contributed clinical reviews in the following areas: Evaluation of Dysphagia: The Role of Barium Fluoroscopy; CT and MR Small Bowel Enterography: Current Status and Future Trends; Radiologic Assessment of Gastrointestinal Bleeding; CT Colonography: Implementation for Screening; Rectal MR for Cancer Staging and Surveillance; Defecography (fluoro vs MR); Noninvasive Imaging Techniques for Staging Liver Fibrosis; HCC Screening: Comparison of US, CT, and MR Approaches; Pancreatic Cystic Lesions; Overview of biliary imaging; Splenomegaly: Clinico-Radiologic Approach to the Differential Diagnosis; MR for Non-Traumatic Acute Abdominal Pain: Comparison with CT and US; and PET/MR: Current Clinical Status and Future Prospects. Gastroenterologists will come away with the knowledge they need to understand the latest imaging modalities for diagnosis and assessment of gastrointestinal diseases and disorders.

This issue of Radiologic Clinics of North America focuses on Topics in Transplantation Imaging. Articles will include: Surgical and imaging workup of the liver pre-transplantation donor and recipient; Surgical techniques and imaging complications of liver transplantation; Surgical and imaging workup of the renal pre-transplantation donor and recipient; Imaging complications of renal transplantation; Surgical and imaging workup of the pancreas pre-transplantation donor and recipient; Interventional and surgical techniques in solid organ transplantation; Complications of immunosuppressive therapy in solid organ transplantation; Pediatric thoracic organ transplantation: current indications, techniques, and imaging findings; Pediatric abdominal organ transplantation: update on current practical imaging assessment; Surgical issues of lung transplantation; Imaging complications of lung transplantation; Current indications, techniques, and imaging findings of stem cell treatment and bone marrow transplant; and more!

MR Contrast Agents, An Issue of Magnetic Resonance Imaging Clinics - E-Book

Cardiac MR Imaging, An Issue of Magnetic Resonance Imaging Clinics of North America

Hepatobiliary Imaging, An Issue of Magnetic Resonance Imaging Clinics of North America,

Advanced MR Imaging in Clinical Practice, an Issue of Radiologic Clinics of North America

Advances in Diffusion-weighted Imaging, An Issue of Magnetic Resonance Imaging Clinics of North America

This issue of Radiologic Clinics of North America focuses on The Spine, and is edited by Dr. Lubdha M. Shah. Articles will include: Pearls and Pitfalls in Spine Imaging; Traumatic Spinal Cord; Vascular Disorders of the Spine; Approach to (acute, subacute, chronic) Myelopathy; Acute Low Back Pain; Spinal Manifestations of Systemic Disease; Intraspinal Tumors; Spinal Osseous Tumors and Oncology; Spinal Marrow Imaging: Clues to Disease; Postoperative Spine: What the Surgeons Wants to Know; Beyond the Spinal Canal; CSF Leak in Spontaneous Intracranial Hypotension: Diagnosis and Intervention; and more!

Guest edited by Christopher Comstock of Memorial Sloan-Kettering, this issue of Radiologic Clinics will provide all of the latest guidelines and techniques for

breast imaging. Modalities include MRI, MR-CAD, digital tomosynthesis, and ultrasound.

This issue of Radiologic Clinics of North America focuses on Imaging of the Pelvis and Lower Extremity, and is edited by Drs. Laura Bancroft and Kurt Scherer. Articles will include: Turf toe injury/Plantar plate pathology; Lisfranc injury; Metatarsalgia; Ankle impingement types; Posterolateral corner injury; Imaging of the post-operative meniscus; Demystifying uncommon sources of pelvic pain; Current concepts of femoro-acetabular impingement; Bone/soft tissue tumors about the foot/ankle; Ultrasound intervention of the lower extremity/pelvis; Lower extremity neuropathies (entrapment); Extreme sport injuries of the pelvis/lower extremity; and more!

It is currently unclear whether body MR imaging at 3T is superior compared to standard 1.5T MR imaging. This is an important issue for radiologists because the 3T MR systems are considerably more expensive than the 1.5T MR systems, yet the reimbursement for the studies is identical. This up-to-date new issue, Guest Edited by Elmar Merkle, will help radiologists make an educated decision whether it is currently worth investing in a more expensive 3T MR system, or settling for a proven and less expensive 1.5T MR system. General topics such as MR Physics are discussed, as well as articles on more specific types of MR Imaging, such as Breast, Cardiac, and Liver. This must-read issue will help to guide radiologists through the constantly shifting technological advances in 3t MR Imaging.

Imaging of the Pelvis and Lower Extremity, An Issue of Radiologic Clinics of North America E-Book

Breast Imaging, An Issue of Radiologic Clinics of North America,

MR in the Emergency Room, An issue of Magnetic Resonance Imaging Clinics of North America, E-Book

Thoracic Imaging, An Issue of Radiologic Clinics of North America,

Plaque Imaging, An Issue of Neuroimaging Clinics of North America,

As with most joints in the body, MR imaging is highly effective at imaging the shoulder. This issue reviews the use of MR imaging to rotator cuff disease and external impingement, Internal impingement syndromes, SLAP injuries and microinstability, and glenohumeral instability. Also included in this issue are separate articles on technical update on MRI of the shoulder, novel anatomic concepts in MR imaging of the rotator cuff, and anatomic variants and pitfalls of the labrum, glenoid cartilage, and glenohumeral ligaments. The issue also provides reviews of MR Imaging of the postoperative shoulder, MR imaging of the pediatric shoulder, and the throwing shoulder from the orthopedist ' s perspective.

This issue of MRI Clinics of North America focuses on Pediatric MR Imaging, and is edited by Dr. Edward Y. Lee. Articles will include: MRI Evaluation of Pediatric Neck Masses: Review and Update; MRI of Lungs and Airways in Children: Past and Present; Pediatric Mediastinal Masses: Role of MRI As a Problem-Solving Tool; Pediatric Cardiac MRI: Practical Preoperative Assessment; Hepatobiliary MRI in Children: Up-To-Date Imaging Techniques and Findings; Pediatric Renal Neoplasms: MRI-Based Practical Diagnostic Approach; MRI Evaluation of Inflammatory Bowel Disease in Children: Where Are We Now in 2018?; MRI Evaluation of Pediatric Genital Disorders: MR Technology Overview and Interpretation; Pediatric Sport-related Injuries: An Imaging Overview for Current and Future Daily Practice; MRI of Pediatric Musculoskeletal Tumors: Recent Advances and Clinical Applications; MRI Evaluation of Pediatric Lymphatics: Overview of Techniques and Imaging Findings; PET-MRI: Current Updates on Pediatric Applications; Tales from the Night: Emergency MRI in Pediatric Patients after Hours; and more!

This issue of MRI Clinics of North America focuses on MR in the Emergency Room. Articles will include: MR Imaging of Stroke; MR Imaging of Acute Head and Neck Infections; Use of MR in the Evaluation of Cranial Trauma; MR of Spinal Emergencies; Emergency MR Imaging of Musculoskeletal Trauma; Use of MR in Non-traumatic Musculoskeletal Emergencies; MR Imaging of Abdominal Pain in Pregnancy; MR of Pelvic and Gastrointestinal Emergencies; Use of MR in Pediatric Emergencies; Use of MR in Pancreatico-Biliary Emergencies; and more!

This issue of Neuroimaging Clinics of North America focuses on Imaging of Multiple Sclerosis: Diagnosis and Management, and is edited by Dr. Àlex Rovira

Cañellas. Articles will include: Multiple Sclerosis: Epidemiological, Clinical and Therapeutic Aspects; Brain and Spinal Cord MR Imaging Features in Multiple Sclerosis and Variants; Neuromyelitis Optica Spectrum Disorders; Radiologically Isolated Syndrome; MRI in Monitoring and Predicting Treatment Response in Multiple Sclerosis; Cortical Grey Matter MR Imaging in Multiple Sclerosis; Brain Atrophy in Multiple Sclerosis: Technical Aspects and Clinical Relevance; Iron Mapping in Multiple Sclerosis; Microstructural MR Techniques in Multiple Sclerosis; Molecular and Metabolic Imaging in Multiple Sclerosis; Insights from Ultra-high Field Imaging in Multiple Sclerosis; Pediatric Multiple Sclerosis: Distinguishing Clinical and MRI Features, and more!

Special Techniques and Technical Advances in PET/CT Imaging, An Issue of PET Clinics, E-Book

MR Safety, An Issue of Magnetic Resonance Imaging Clinics of North America, E-Book

Update on the Shoulder, An Issue of Magnetic Resonance Imaging Clinics

Skull Base Imaging, An Issue of Radiologic Clinics of North America, E-Book

Breast MRI, An Issue of Magnetic Resonance Imaging Clinics - E-Book

In this issue of Radiologic Clinics, guest editor Edward Y. Lee brings his considerable expertise to the topic of Imaging Guidelines and Recommendations for Pediatric Disorders. Provides in-depth, clinical reviews on the latest updates on Imaging Guidelines and Recommendations for Pediatric Disorders, providing actionable insights for clinical practice. Presents the latest information on this timely, focused topic under the leadership of experienced editors in the field; Authors synthesize and distill the latest research and practice guidelines to create these timely topic-based reviews.

Topics include: Imaging of Ischemic Stroke; Hemorrhagic Stroke and Non-traumatic Intracranial Hemorrhage; Acute Neuro-Interventional Therapies; Orbital and Intracranial Complications of Sinusitis; Traumatic Brain Injury; Central Nervous System Infections; Facial Trauma: What the Surgeon Wants to Know; Intracranial Hypo- and Hypertension; Seizures; Pediatric Central Nervous System Emergencies; Spine Emergencies; Infections and Inflammatory Processes of the Neck.

Guest edited by Bonnie Joe, this issue of MRI Clinics covers breast screening protocols, imaging the newly diagnosed cancer patient, imaging to monitor response to therapy, breast MR spectroscopy, and more.

This issue of MRI Clinics of North America focuses on MR Imaging of the Pancreas, and is edited by Drs. Kumar Sandrasegaran and Dushyant V. Sahani. Articles will include: Advanced MRI Techniques for Pancreas Imaging; PET/MRI for Pancreatic Diseases; The Role of MRI in Pancreas Cancer; Genetics of Pancreatic Neoplasms and Role of Screening; Cystic Pancreatic Tumors; Rare Pancreatic Tumors; Autoimmune Pancreatitis; Routine MRI for Pancreas; Neuroendocrine Tumors; Acute Pancreatitis: How Can MRI Help; Chronic Pancreatitis: What the Clinician Wants to Know from MRI; and more!

Advanced MR Imaging in Clinical Practice, An Issue of Radiologic Clinics of North America,

PET Imaging of Brain Tumors, An Issue of PET Clinics,

Imaging of the Postoperative Spine, An Issue of Neuroimaging Clinics,

Advances in Imaging of Multiple Sclerosis, An Issue of Neuroimaging Clinics of North America, E-Book

Breast Imaging, An Issue of Magnetic Resonance Imaging Clinics,

This issue of Radiologic Clinics of North America focuses on Skull Base Imaging, and is edited by Dr. Nafi Aygun. Articles will include: Overview of Expanded Endonasal Approaches to the Skull Base for Radiologists; Imaging of Paranasal Sinuses and Anterior Skull Base; Imaging of the Sella Turcica and Pituitary Gland; Imaging of Diplopia; Imaging of the Central Skull Base; Imaging of Vascular Compression Syndromes (Including Trigeminal Neuralgia and Hemifacial Spasm); Imaging of the Posterior Skull Base (Lower Cranial Nerves Excluding the 7th and 8th Nerves); Imaging Evaluation and Treatment of Vascular Lesions at the Skull Base; Perineural Spread of Tumor in the Skull Base; Advanced Imaging Techniques of the Skull Base; High Resolution Imaging of the Skull Base; Imaging of Cerebrospinal Fluid Rhinorrhea and Otorrhea, and more!

Editor Orlando Ortiz and authors review important areas in Imaging of the Postoperative Spine. Articles will include: Post-operative spine imaging in cancer patients; Minimally invasive spine intervention; Post-vertebral augmentation spine imaging; Imaging of lumbar spine fusion; Motion sparing spine instrumentation; Imaging of spine surgery complications; Post-operative fluid collections; Emerging techniques of post-operative spine imaging, What the spine surgeon needs to know about post-operative spine; Post-operative spine infection evaluation; and more!

This issue of MRI Clinics of North America focuses on Cardiac MR Imaging and is edited by Drs. Roberto C. Cury and Clerio Azevedo. Articles will include: The prognostic value of late gadolinium enhancement in non-ischemic heart disease; The role of contrast-enhanced CMR in the assessment of patients with malignant ventricular arrhythmias; Assessment of cardiac sarcoidosis by CMR: comparison with other imaging modalities; The value of T1 mapping techniques in the assessment of non-ischemic cardiomyopathies; Assessment of cardiotoxicity of cancer chemotherapy: The value of cardiac MRI; State-of-the-art quantitative assessment of myocardial ischemia by stress perfusion CMR; T2* mapping techniques: Iron overload assessment and other potential clinical applications; Automated Quantitative Stress Perfusion in a Clinical Routine; Comprehensive assessment of cardiac involvement in muscular dystrophies by cardiac CMR; Assessment of aortic stenosis by CMR: quantification of flow, characterization of myocardial injury, TAVR planning and more; Cardiac MRI at 7.0 Tesla: Reality?; The role of cardiac MRI in the assessment of patients with cardiac amyloidosis; Applications of Cardiac MRI in Electrophysiology: Current Status and Future Needs; and more!

In this issue of Magnetic Resonance Imaging Clinics, Guest Editor Mai-Lan Ho brings considerable expertise to the topic of Pediatric Neuroimaging. Top experts in the field cover key topics such as Magnetoencephalography of the Pediatric Brain, Magnetic Resonance Fingerprinting of the Pediatric Brain, Fetal and Placental Imaging, Chemical Exchange Saturation Transfer (CEST) MRI, and more. Provides in-depth, clinical reviews on Pediatric Neuroimaging, providing actionable insights for clinical practice. Presents the latest information on this timely, focused topic under the leadership of experienced editors in the field; Authors synthesize and distill the latest research and practice guidelines to create these timely topic-based reviews. Contains 14 relevant, practice-oriented topics including Proton and Multinuclear Spectroscopy of the Pediatric Brain; Task-Based and Resting-State BOLD fMRI in Children; 3D Modeling, and Advanced Visualization of the Pediatric Brain, Neck and Spine; Contrast Pediatric Brain Perfusion: Dynamic Susceptibility Contrast and Dynamic Contrast-Enhanced MRI; and more.

Pediatric MR Imaging, An Issue of Magnetic Resonance Imaging Clinics of North America

Pediatric Neuroimaging: State-of-the-Art, An Issue of Magnetic Resonance Imaging Clinics of North America, E-Book

Neuroradiology Applications of High-Field MR Imaging, An Issue of Neuroimaging Clinics - E-Book

Imaging of Ischemic Stroke, An Issue of Neuroimaging Clinics - E-Book

Body MR Imaging

This issue of MRI Clinics of North America focuses on MR Safety and is edited by Dr. Robert E. Watson. Articles will include: Key elements of clinical MRI safety; Standardized approaches to MR safety assessment of patients with implanted devices; Performing MRI safely in patients with implanted electronic devices: cardiac electronic implanted devices and neurostimulators; Implanted devices: SAR considerations for common diagnostic examinations; Testing of commonly implanted devices for MR conditional labelling; MR safety in the 7T environment; Physics of MR safety; MRI safety considerations of gadolinium based contrast agents: gadolinium retention and nephrogenic systemic fibrosis; MRI safety: Siting and zoning considerations; Elements of effective patient screening to improve safety in MRI, including use of ferromagnetic detection systems; MRI safety in the interventional environment; MRI Safety: Pregnancy and Lactation; MR safety: Computer MRI simulations for testing of electronic devices; and more!

Information for neuroimaging specialists includes a "Diagnostic Checklist or " Clinical Recommendations along with tables presenting recommended MR sequences and protocols. The primary focus of the issue is 3.0T; one article specifically deals with 7T and higher fields are mentioned sporadically throughout. Topics include: Tumor High-Field MR; Stroke High-Field MR; High-Field MR of Inflammation; Vascular Disorders: MR Angiography of Brain Vessels, MR Angiography of Neck Vessels, and Perfusion Imaging; Plaque Imaging; Neurodegenerative Disease; Epilepsy Imaging; Head and Neck Oncology Applications; Pediatric High-Field Imaging; Spine High-Field Imaging; Ultra High-Field Imaging; Future Perspectives on High-Field MR

This issue, edited by Drs. Peter Liu and Richard Abramson, will comprehensively review imaging of the hepatobiliary system. Articles will include: Hepatic MRI Techniques, Optimization, and Artifacts, MR Contrast Agents for Liver Imaging, Focal Liver Lesion Characterization in Noncirrhotic Patients: An MR Approach, MRI in Cirrhosis and Hepatocellular Carcinoma, Understanding LI-RADS: A Primer for Practical Use, MRI of the Liver after Locoregional and Systemic Therapy, Diffusion Weighted Imaging of the Liver: Techniques and Applications, Hepatic Iron and Fat Quantification Techniques, Perfusion Imaging in Liver MRI, MR Elastography, Treatment Planning Before Hepatobiliary Surgery: Clinical and Imaging Considerations, MRI/MRCP of Benign and Malignant Biliary Conditions, and more!

This issue of MRI Clinics of North America focuses on Advanced Musculoskeletal MR Imaging, and is edited by Drs. Roberto Domingues and Flávia Martins Costa. Articles will include: Quantitative Whole Body MRI; Multiparametric Bone Marrow Imaging; MET-RADS-P in Practice; Whole Body MRI Beyond Oncology; Whole Body Imaging in Multiple Myeloma; MRI Neurography in Musculoskeletal Disorders; MR Imaging in Rheumatology; Multiparametric MRI of Soft Tissue Tumors and Pseudotumors; Multiparametric MRI of Benign and Malignant Bone Tumors; MR Imaging of Fetal Musculoskeletal Disorders; MRI at Rio 2016 Olympic and Paralympic Games: Our Experience using State-of-the-art 3.0 T and 1.5 T Wide-bore MRI Scanners in High Performance Athletes; Ultrasound and Advanced MRI Fusion for Musculoskeletal Tumors Biopsy; and more!

Pancreatic Imaging, An Issue of Radiologic Clinics of North America - E-Book

This issue examines PET-MRI with evolving but potentially competing technologies. The guest editors have put together an extremely timely issue as practicing radiologists are increasingly curious about the role of diffusion weighted imaging with MRI as a competing or a

complementary technique to PET.

In this issue of *Neuroimaging Clinics*, guest editors Drs. Gul Moonis and Daniel T. Ginat bring their considerable expertise to the topic of *Mimics, Pearls, and Pitfalls of Head & Neck Imaging*. Top experts in the field cover key topics such as implants and foreign bodies in head and neck imaging; FDG-PET artifacts in the head and neck region; pearls, pitfalls, and mimics in pediatric head and neck imaging; and more. Contains 12 relevant, practice-oriented topics including computed tomography artifacts in the head and neck region; magnetic resonance imaging artifacts in the head and neck region; mimics in temporal bone imaging; and post-surgical and post-radiation findings in head and neck imaging; and more. Provides in-depth clinical reviews on mimics, pearls, and pitfalls of head and neck imaging, offering actionable insights for clinical practice. Presents the latest information on this timely, focused topic under the leadership of experienced editors in the field. Authors synthesize and distill the latest research and practice guidelines to create clinically significant, topic-based reviews.

This issue of *MRI Clinics* focuses on *Advances in Diffusion-weighted Imaging* and is edited by Dr. Kei Yamada. Articles will include: *Technical Basics of Diffusion-weighted Imaging*; *Neurofluid as Assessed by Diffusion-weighted Imaging*; *Diffusion-weighted Imaging is the Key to Diagnoses*; *Diffusion-weighted Imaging of the Spinal Cord*; *Intracranial Abnormalities with Diffusion Restriction*; *Brain Anatomy by Diffusion-weighted Imaging*; *Measuring Perfusion: Intravoxel Incoherent Motion*; *Temperature Measurement by Diffusion-weighted Imaging*; *Diffusion-weighted Imaging at Ultra-high Field MRI*; *Diffusion-weighted Imaging for Radiomics*; *Diffusion Weighted Imaging for Infants*; *Diffusion-weighted Imaging of the Head and Neck (Including Temporal Bone)*; *DTI, DKI and Q-space Imaging*; and more!