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Artificial Intelligence and Machine Learning , An Issue of Neuroimaging Clinics of North America, E-Book

Elsevier Health Sciences **This issue of Neuroimaging Clinics of North America focuses on Artificial Intelligence and Machine Learning and is edited by Dr. Reza Forghani. Articles will include: A Brief History of Artificial Intelligence; Evolution of Approaches for Computerized Image Analysis; Overview of Machine Learning Part 1: Classic Approaches; Overview of Machine Learning Part 2: Artificial Neural Networks & Deep Learning; Overview of Natural Language Processing; Artificial Intelligence & Stroke Imaging: An East Coast Perspective; Artificial Intelligence & Stroke Imaging: A West Coast Perspective; Artificial Intelligence Applications for Brain Tumor Imaging; Diverse Applications of Artificial Intelligence in Neuroradiology; Artificial Intelligence Applications for Head and Neck Imaging; Artificial Intelligence Applications for Predictive Analytics and Workflow Optimization; Artificial Intelligence, Advanced Visualization, and 3D Printing; Ethical & Legal Considerations for Artificial Intelligence; Comprehensive (or 360) Artificial Intelligence: Beyond Image Interpretation Alone, and more!**

Imaging of the Post Treatment Head and Neck, An Issue of Neuroimaging Clinics of North America, E-Book

Elsevier Health Sciences **In this issue of Neuroimaging Clinics, guest editors Drs. Prashant Raghavan, Robert E. Morales, and Sugoto Mukherjee bring their considerable expertise to the topic of Imaging of the Post-Treatment Head and Neck. Top experts in the field cover key topics such as imaging of the postoperative temporal bone, imaging after sinonasal surgery, imaging after dental and TMJ surgery, advanced CT and MR imaging of the post-treatment head and neck, and more. Contains 15 relevant, practice-oriented topics including NI-RADS to predict residual or recurrent head and neck squamous cell carcinoma; lymph node dissection: principles and postoperative imaging; surgical free flaps and grafts in head and neck reconstruction: principles and postoperative imaging; imaging after facial fracture fixation; and more. Provides in-depth clinical reviews on imaging of the post-treatment head and neck, 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.**

Advanced Neuroimaging in Brain Tumors, An Issue of Radiologic Clinics of North America, E-Book

[Elsevier Health Sciences](#) This issue of **Radiologic Clinics** focuses on **Advanced Neuroimaging in Brain Tumors** and is edited by **Dr. Sangam Kanekar**. Articles will include: **Imaging findings of new entities and patterns in brain tumor: IDH mutant, IDH wildtype, Codeletion, and MGMT methylation; CT and MR perfusion imaging in neuro-oncology; Application of diffusion weighted imaging (DWI) and diffusion tensor imaging (DTI) in the pre- and post-surgical evaluation of brain tumor; Clinical applications of magnetic resonance spectroscopy (MRS) in of brain tumors: grading and recurrence; Cellular and molecular imaging with PET and SPECT in brain tumors; Role of Functional MRI (fMRI) in the presurgical mapping of brain tumor; Imaging surveillance of gliomas: role of advanced imaging techniques; Neoplastic meningitis and paraneoplastic syndrome—role of imaging; Imaging of neurologic injury following oncologic therapy; RadioGenomics of brain tumor; Imaging mimics of brain tumors; Imaging of tumor syndromes; and more!**

Thyroid and Parathyroid Imaging, An Issue of Neuroimaging Clinics of North America, E-Book

[Elsevier Health Sciences](#) In this issue of **Neuroimaging Clinics**, guest editors **Salmaan Ahmed** and **J. Matthew Debnam** bring their considerable expertise to the topic of **Thyroid and Parathyroid Imaging**. Provides in-depth, clinical reviews on **Thyroid and Parathyroid Imaging**, 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.

Psychoradiology, An Issue of Neuroimaging Clinics of North America, Ebook

[Elsevier Health Sciences](#) This issue of **Neuroimaging Clinics of North America** focuses on **Psychoradiology**, and is edited by **Dr. Qiyong Gong**. Articles will include: **Clinical Strategies and Technical Challenges in Psychoradiology; Resting State Functional MRI for Psychiatry; Magnetic Resonance Spectroscopy for Psychiatry; Psychoradiology of Major Depression; Psychoradiological Biomarkers for Psychopharmaceutical Effects; Implementing Imaging into Clinical Routine Screening for Psychosis; Imaging of Autism; Individual-specific Analysis for Psychoradiology; Interventional Psychoradiology: Imaging Guided Therapeutic Intervention of Neuropsychiatric Disorders; Imaging-based Subtyping for Psychiatric Syndromes; Imaging of Post-Traumatic Stress Disorder; Imaging of Schizophrenia; and more!**

Neuroimaging, An Issue of Neurologic Clinics E-Book

[Elsevier Health Sciences](#) This issue of **Neurologic Clinics**, guest edited by **Laszlo L. Mechtler**, will cover key topics in **Neuroimaging**. This issue is one of four selected each year by our series consulting editor, **Dr. Randolph W. Evans**. Topics discussed in this issue will include: **Future of Neuroimaging, Neuroimaging for the Neurologist, Imaging in Pregnancy, Multiple Sclerosis Mimic, Diseases that cause Dementia, Acute Stroke, DBS, NPH and Hydrocephalus, Venous Disease of the Brain, Cranial Nerve Imaging, and Neuro-ultrasonography, among others.**

fMRI in the Pre-Operative Brain Tumor Setting, An Issue of Neuroimaging Clinics of

North America, E-Book

[Elsevier Health Sciences](#) This issue of **Neuroimaging Clinics of North America** focuses on **fMRI for the Diagnosis, Treatment and Management of Brain Tumors** and is edited by **Dr. Andrei I. Holodny**. **Articles will include: Introduction to fMRI; How to start your clinical fMRI program; Diffusion tractography; The problem of neurovascular uncoupling; Dynamic Resting State fMRI; Resting State fMRI of language function; Methods of fMRI analysis; Patient preparation and fMRI paradigm design; Functional brain anatomy; Neurosurgical Applications of fMRI; and more!**

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

[Elsevier Health Sciences](#) 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.**

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

[Elsevier Health Sciences](#) 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.**

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

[Elsevier Health Sciences](#) In this issue of **Neuroimaging Clinics**, **Guest Editor Stephen Connor** brings considerable expertise to the topic of **skull base neuroimaging**. **Top experts in the field cover key topics such as imaging of acute and chronic skull base infection, trigeminal neuralgia and facial pain, jugular paragangliomas and other petrous apex lesions, acquired skull base CSF leaks, and more. Provides in-depth, clinical reviews on skull base 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 A guide to open skull base and image guided skull base surgery for the radiologist; Anterior and central skull base tumours; Patterns of perineural skull base tumour extension from extracranial tumours; New and advanced MRI diagnostic imaging techniques in the evaluation of cranial nerves and the skull base; and more.**

Orbit and Neuro-ophthalmic Imaging, An Issue of Neuroimaging Clinics, E-Book

[Elsevier Health Sciences](#) Orbit and Neuro-ophthalmic Imaging is explored in this important Neuroimaging Clinics issue. Articles include: Imaging indication, protocols, anatomy, and pitfalls; Orbital ultrasonography and optical coherence tomography - what radiologists need to know; Advanced imaging techniques for the retina and visual pathway; Imaging of optic neuropathy and chiasmatic disorder; Imaging of post-chiasmatic disorder and higher cortical visual dysfunction; Imaging of diseases of the ocular motor pathway; Imaging of orbital trauma and emergent non-traumatic conditions; Imaging of ocular prosthesis and orbital reconstruction flaps; Imaging of pediatric ophthalmologic conditions; and more!

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

[Elsevier Health Sciences](#) This issue of Radiologic Clinics of North America focuses on Endocrine Imaging and is edited by Dr. Mark E. Lockhart. Articles will include: Molecular imaging in the head and neck: Diagnosis and therapy; Endocrine imaging: The referring clinician perspective; Thyroid disease in the age of incidental findings; Normal thyroid: US with technical pearls and pitfalls; Thyroid diffuse and nodular disease ultrasound; CT and MRI of thyroid disease; Multimodality imaging of neuroendocrine tumors; Neck, thyroid, and parathyroid imaging procedures; Parathyroid imaging; Neuroimaging of pituitary disease; Adrenal imaging; Neuroendocrine tumors: Imaging of treatment and follow-up; and more!

Spinal Infections, An Issue of Neuroimaging Clinics,

[Elsevier Health Sciences](#) Spinal Infections is explored in this important Neuroimaging Clinics issue. Articles include: Pathologic approach to spinal cord infections; Pediatric spinal infection and inflammation; Pediatric and adult spinal Tb: imaging and pathophysiology; Pyogenic spinal infections; Spinal brucellosis; Viral infection of the spinal cord and roots; Parasitic and rare spinal infections; Overview of complications and sequelae in spinal infections; Neurosurgical approach to spinal infections; Image guided interventions in spinal infections; Pathological basis of pyogenic, nonpyogenic, and other spondylitis and discitis, and more!

Neuroimaging Anatomy, Part 1: Brain and Skull, An Issue of Neuroimaging Clinics of North America, E-Book

[Elsevier Health Sciences](#) In this issue of Neuroimaging Clinics, guest editor Dr. Tarik F. Massoud brings his considerable expertise to the topic of Neuroimaging Anatomy, Part 1: Brain and Skull. Anatomical knowledge is critical to reducing both overdiagnosis and misdiagnosis in neuroimaging. This issue is part one of a two-part series on neuroimaging anatomy that focuses on the brain, with each article addressing a specific area. The issue also includes an article on Brain Connectomics: the study of the brain's structural and functional connections between cells. Contains 13 relevant, practice-oriented topics including anatomy of cerebral cortex, lobes, and the cerebellum; brainstem anatomy; cranial nerves anatomy; brain functional imaging anatomy; imaging of normal brain aging; and more. Provides in-depth clinical reviews on neuroimaging anatomy of the brain and skull, 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.

Dual Energy CT: Applications in Head and Neck and Neurologic Imaging, An Issue of Neuroimaging Clinics of North America, E-Book

[Elsevier Health Sciences](#) This issue of Neuroimaging Clinics of North America focuses on Dual Energy CT: Applications in Neurologic, Head and Neck Imaging, and is edited by Drs. Reza Forghani and Hillary R. Kelly. Articles will include: Dual Energy CT: Physical Principles and Approaches to Scanning, Part 1; Dual Energy CT: Physical Principles and Approaches to Scanning, Part 2; Dual Energy CT Applications for Differentiation of Intracranial Hemorrhage, Calcium, and Iodine; Dual Energy CT Angiography of the Head and Neck and Related

Applications; Miscellaneous and Emerging Applications of Dual Energy CT for the Evaluation of Intracranial Pathology; Applications of Dual Energy CT for the Evaluation of Head and Neck Squamous Cell Carcinoma; Dual Energy CT Applications for the Evaluation of Cervical Lymphadenopathy; Miscellaneous and Emerging Applications of Dual Energy CT for the Evaluation of Pathologies in the Head and Neck; Dual Energy CT Applications for the Evaluation of the Spine; Applications of Dual Energy CT for Artifact Reduction in the Head, Neck, and Spine; Advanced Tissue Characterization and Texture Analysis using Dual Energy CT: Horizons and Emerging Applications; and more!

Imaging of Brain Concussion, An Issue of Neuroimaging Clinics of North America, E-Book

Elsevier Health Sciences **This issue of Neuroimaging Clinics of North America focuses on Imaging of Brain Concussion, and is edited by Drs. Roy Riascos and Eliana E. Bonfante-Mejia. Articles will include: Traumatic Brain Injury: definition, neurosurgery, trauma-orthopedics, neuroimaging, and psychology-psychiatry; Multimodality advanced imaging for brain concussions; Perfusion weighted images in brain concussion; PET and SPECT in brain concussion; Imaging of chronic concussion; Imaging of concussion in young athletes; Imaging on concussion in blast injury; Conventional CT and MR in brain concussion; Structural imaging: structural MRI in concussion; Susceptibility weighted imaging and MR spectroscopy in concussion; Functional imaging fMRI - BOLD and resting state techniques in mTBI; Diffusion Weighted and Diffusion Tensor Imaging in mTBI; and more!**

Imaging of Paranasal Sinuses, An Issue of Neuroimaging Clinics 25-4,

Elsevier Health Sciences **Imaging of Paranasal Sinuses is explored in this important Neuroimaging Clinics issue. Articles include: Current trends in sinonasal imaging; Normal anatomy and anatomic variants of the paranasal sinuses on CT; Pre-treatment imaging in inflammatory sinonasal disease; The role of CT and MRI in imaging of fungal sinusitis; Imaging approach to sinonasal tumors; The role of CT and MRI in imaging of sino-nasal tumors; The role of CT and MRI in the skull base in evaluation of sino-nasal disease; Post-treatment imaging of the paranasal sinuses following endoscopic sinus surgery; Post-treatment imaging of the paranasal sinuses following treatment for sinonasal neoplasia; and more!**

Artificial Intelligence and PET Imaging, Part 1, An Issue of PET Clinics

Elsevier Health Sciences **Artificial Intelligence and PET Imaging, Part 1, An Issue of PET Clinics, E-Book**

Advances in Neuroimaging of the Fetus and Newborn, An Issue of Clinics in Perinatology, E-Book

Elsevier Health Sciences **In this issue of Clinics in Perinatology, guest editors Drs. Sangam Kanekar and Sarah Sarvis Milla bring their considerable expertise to the topic of Advances in Imaging of the Fetus and Newborn. Top experts in the field provide important imaging updates to perinatologists and neonatologists who provide care to fetal, preterm, and newborn infants, helping them optimize outcomes and support families as they make decisions about clinical care, treatment, and postnatal care of affected babies. Contains 14 practice-oriented topics including fetal MRI neuroradiology: indications, safety, and normal anatomy; neuroimaging of the premature infant; imaging of abusive head trauma in infancy; intrauterine and perinatal infections; and more. Provides in-depth clinical reviews on advances in imaging of the fetus and newborn, 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.**

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

[Elsevier Health Sciences](#) This issue of Radiologic Clinics of North America focuses on Breast Imaging and is edited by Dr. Phoebe E. Freer. Articles will include: Management of High-risk Lesions in Breast Cancer; Contrast Mammography and Tomosynthesis; Breast Radiology Advocacy: Responding to the Call-to-Action; Artificial Intelligence and Breast Imaging; Is It the Era for Personalized Breast Cancer Screening?; Understanding the Mammography Audit; MRI Screening of Breast Cancer; Abbreviated MRI for Breast Cancer; Overdiagnosis and Risks of Breast Cancer Screening; MRI Audit of Screening and Diagnostic Breast Imaging; Supplemental Screening for Breast Cancer in Patients at Intermediate and High Risk; and more!

Temporal Bone Imaging: Clinicoradiologic and Surgical Considerations, An Issue of Neuroimaging Clinics of North America, Ebook

[Elsevier Health Sciences](#) This issue of Neuroimaging Clinics of North America focuses on Temporal Bone Imaging: Clinicoradiologic and Surgical Considerations, and is edited by Drs. Gul Moonis and Amy Fan-Yee Juliano. Articles will include: Imaging of Temporal Bone Infection Inflammation; Imaging of Meniere's Disease; Treatment of Vestibular Schwannoma; Post Operative Imaging of the Temporal Bone; Otosclerosis and Dysplasias of the Temporal Bone; Imaging of Syndromes with Temporal Bone Abnormalities; Imaging of Third Window Lesions; Imaging of Tinnitus; Imaging of Temporal Bone Tumors; Imaging of Pediatric Hearing Loss; Common Otologic Surgical Procedures: Clinical Decision Making Pearls; Imaging of Temporal Bone Trauma: A Clinicoradiologic Perspective; and more!

Neuroradiology, An Issue of Radiologic Clinics of North America

[Elsevier Health Sciences](#) This issue of Radiologic Clinics of North America focuses on Neuroradiology and is edited by Drs. Jacqueline A. Bello and Shira Slasky. Articles will include: CT Perfusion in Acute Stroke; The Role of DTI and fMRI Prior to Brain Tumor Surgery; Pediatric Primary Neoplasms; Radiomics of Glioma: Genotypes and their Imaging Correlates; MR Spectroscopy and MR Perfusion of Brain Neoplasms; Etiologies of Acute Stroke: A Patterned Approach; Recent Hot Topics: RCVS and PRES, Venous Occlusive Disease; CNS Lesions in Immunocompromised Patients; Imaging Glioblastoma Post-treatment: Progression, Pseudoprogression, Pseudoresponse, Radiation Necrosis; Imaging of Acute Stroke: Current State; Adult Primary Brain Neoplasms: (Including 2016 WHO classification); Large and Small Vessel Vasculopathies; and more!

Imaging of Headache, An Issue of Neurologic Clinics, E-Book

[Elsevier Health Sciences](#) In this issue of Neurologic Clinics, guest editor Dr. Sangam Kanekar brings his considerable expertise to the topic of Imaging of Headache. Top experts in the field cover key topics such as headache attributed to disorder of the cranium and base of the skull; role of CT and MRI in evaluation of headache due to paranasal sinus and teeth disorder; imaging of painful ophthalmologic disorders; role of MRI and CT in the evaluation of headache in pregnancy and postpartum period; assessment and imaging of pediatric and adolescent headache; and more. Contains 12 relevant, practice-oriented topics including "when to and when not to" image headache; imaging appearance of migraine and tension type headache; radiology of trigeminal and glossopharyngeal neuralgias; post-traumatic headaches and post-craniotomy syndromes; imaging of headache attributed to vascular disorder; and more. Provides in-depth clinical reviews on imaging of headache, 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.

Imaging of White Matter, An Issue of Radiologic Clinics of North America,

[Elsevier Health Sciences](#) White matter lesions have been always challenging for general as well as neuroradiologists. Any disease process in the brain or body can affect white matter, making it very difficult to pinpoint the diagnosis. However the application of the proper algorithmic approach, pattern of distribution, and study of the morphology of these lesions makes it possible to limit the differential diagnosis and, many times, pinpoint specific diagnosis. Advancement of various imaging techniques predominately in MR (MR spectroscopy, MR perfusion, diffusion tensor imaging (DTI). functional MR) along with PET has further improved our understanding of these disease processes. However, most of these techniques are new and not well understood by every physician. This issue will cover the topics necessary to master these techniques.

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

[Elsevier Health Sciences](#) This issue of Radiologic Clinics of North America focuses on Renal Imaging and is edited by Drs. Steven C. Eberhardt and Steven S. Raman. Articles will include: Contrast Reaction Readiness for Your Department or Facility; Update on Hereditary RCC and Imaging Implications; Renal Surgical Imaging; Mimics and Pitfalls in Renal Imaging, Approach to Cystic Renal Masses, Diagnosis of Cystic Disease and Role of Radiology; Use of Contrast US for Renal Mass Evaluation; Radiomics and Texture Analysis of Kidney; Protocol Optimization for Renal Masses; Renal Infections and Inflammatory Disease; Image Interpretation: Practical Triage of Benign from Malignant Renal Masses; Renal Tumor Ablation, Case Selection, Techniques, and Complications; Comprehensive Renal Trauma Imaging; Reporting on Renal Masses, Terminology and Use of Templates; and more!

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

[Elsevier Health Sciences](#) 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

Emergency Neuroradiology, An Issue of Radiologic Clinics of North America - E-Book

[Elsevier Health Sciences](#) This issue includes every subject relevant to neuroradiology that one may expect to encounter in a general emergency radiology practice. The most important concepts in emergent brain, spine, head & neck imaging, as well as pediatric nonaccidental trauma are reviewed, and the issue provides an excellent starting point for learning the fundamentals of emergency neuroradiology and can serve as a reference for those wishing to reinforce their current knowledge base.

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

[Elsevier Health Sciences](#) In this issue of Radiologic Clinics, guest editors Drs. Benjamin M. Yeh and Frank H. Miller bring their considerable expertise to the topic of Hepatobiliary Imaging. Top experts in the field offer comprehensive reviews of every major aspect of hepatobiliary imaging: biliary cancer, trauma, vascular disorders, and benign liver disease. This issue also includes articles on imaging modalities (MR, CT, ultrasound), contrast agents, and "Pearls and Pitfalls. Contains 13 practice-oriented topics including abbreviated MR liver protocols; update on MR contrast agents for liver imaging: what to use and when; biliary imaging interpretation pearls and pitfalls: CT and MRI; update on biliary cancer imaging; atypical liver malignancies and diagnostic pitfalls; and more. Provides in-depth clinical reviews on hepatobiliary 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.

Thoracic Infections, An Issue of Radiologic Clinics of North America, E-Book

[Elsevier Health Sciences](#) In this issue of Radiologic Clinics, guest editor Dr. Loren Ketai brings his considerable expertise to the topic of Imaging of Thoracic Infections. Top experts in the field cover key topics such as infections in lung and other solid organ transplants, endemic fungal infections, viral pneumonias, non-tuberculous mycobacteria, and more. Contains 12 relevant, practice-oriented topics including coronavirus pneumonias; endemic thoracic infections in Central and South America; endemic thoracic infections in East Asia; endemic thoracic infections in sub-Saharan Africa; and more. Provides in-depth clinical reviews on imaging of thoracic infections, 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.

Imaging the ICU Patient or Hospitalized Patient, An Issue of Radiologic Clinics of North America, E-Book

[Elsevier Health Sciences](#) This issue of Radiologic Clinics of North America focuses on Imaging the Hospitalized Patient, and is edited by Drs. Travis S. Henry and Vincent M. Mellnick. Articles will include: Imaging of bowel wall thickening in the hospitalized patient; Imaging of acute hepatobiliary dysfunction; Imaging of GI tract perforation; Imaging of abdominal postoperative complications; Imaging of acute renal failure in the hospital setting; Imaging of diffuse lung disease in the ICU patient; Perioperative complications of cardiothoracic surgery; Approach to abnormal chest CT contrast enhancement in the hospitalized patient; Imaging of the misplaced venous catheter; Altered mental status in the hospitalized patient; Neuroimaging in the ICU patient: Pearls and pitfalls; Imaging of cardiovascular support; and more!

Total Body PET Imaging, An Issue of PET Clinics, E-Book

[Elsevier Health Sciences](#) This issue of PET Clinics focuses on Total Body PET Imaging, and is edited by Drs. Lorenzo Nardo, Ramsey Badawi, Joel S. Karp and Austin Pantel. Articles will include: UC Davis update on the uEXPLORER; Zhongshan update on the uEXPLORER; UPenn update on the PennPET Explorer; Total body imaging instrumentation design considerations; 3D/4D reconstruction and quantitative total body imaging; Analysis of 4D data for total body imaging; Total body imaging and cancer; Total body imaging and metabolic disease; Total body imaging and infection; Total body imaging and musculoskeletal disease; Total body imaging and cardiovascular disease; Total body imaging and cardiac applications; Total body imaging and neuroimaging; and more!

Imaging of the Post Treatment Head and Neck, an Issue of Neuroimaging Clinics of North America, 32

[Elsevier](#) In this issue of Neuroimaging Clinics, guest editors Drs. Prashant Raghavan, Robert E. Morales, and Sugoto Mukherjee bring their considerable expertise to the topic of Imaging of the Post-Treatment Head and Neck. Top experts in the field cover key topics such as imaging of the postoperative temporal bone, imaging after sinonasal surgery, imaging after dental and TMJ surgery, advanced CT and MR imaging of the post-treatment head and neck, and more. Contains 15 relevant, practice-oriented topics including NI-RADS to predict residual or recurrent head and neck squamous cell carcinoma; lymph node dissection: principles and postoperative imaging; surgical free flaps and grafts in head and neck reconstruction: principles and postoperative imaging; imaging after facial fracture fixation; and more. Provides in-depth clinical reviews on imaging of the post-treatment head and neck, 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.

Brain Embryology and the Cause of Congenital Malformations, An Issue of Neuroimaging Clinics of North America

Elsevier Health Sciences This issue of **Neuroimaging Clinics of North America** focuses on **Brain Embryology and the Cause of Congenital Malformations** and is edited by Drs. **Thierry A.G.M. Huisman** and **Avner Meoded**. Articles will include: **Neuroimaging of normal brain development; Ultrasound and MRI of the normal fetal brain; Spinal dysraphia, Chiari 2 malformation, unified theory and advances in fetoscopic repair; Posterior fossa malformations; Synopsis of brain embryology; Cerebral dysplasia and overgrowth syndromes; Disorders of ventral induction/spectrum of holoprosencephaly; Classification and neurogenetics of intracranial vascular anomalies; DTI of brain malformations: Exploring the internal architecture; Connectomics in brain malformations: How is the malformed brain wired?; Commissural anomalies; and more!**

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

Elsevier Health Sciences In this issue of **Radiologic Clinics**, Guest Editors **Jonathan E. McConathy** and **Samuel J. Galgano** bring their considerable expertise to the topic of **PET Imaging**. **Top experts in the field cover key topics such as PET Imaging for lung cancer, breast cancer, melanoma, and more. Provides in-depth, clinical reviews on PET Imaging, 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 13 relevant, practice-oriented topics including PET Imaging for hematologic malignancies, neuroendocrine tumors, prostate and genitourinary cancers, and more.**

Adult Brain Tumors, An Issue of Neuroimaging Clinics of North America, E-Book

Elsevier Health Sciences This issue of **Neuroimaging Clinics of North America** focuses on **Adult Brain Tumors**, and is edited by **Dr. Lara Brandão**. Articles will include: **Posterior Fossa Tumors in Adult Patients; Lymphomas and Adult Brain Tumors; Pre-Treatment Evaluation of Gliomas; Post Treatment Evaluation of Gliomas; Metastasis in Adult Brain Tumors; Extraparenchymal Lesions in Adult Brain Tumors; Interesting Case Studies in Adult Brain Tumors; Advanced MR Imaging Techniques in Daily Practice; and more!**

Head and Neck Cancers, An Issue of PET Clinics, E-Book

Elsevier Health Sciences In this issue of **PET Clinics**, guest editor **Dr. Rathan M. Subramaniam** brings his considerable expertise to the topic of **Head and Neck Cancers**. **Top experts in the field provide important updates on planning, treatment, and individual head and neck cancers, with articles such as PET/CT: laryngeal and hypopharyngeal cancers; PET/CT: thyroid cancers; PET/CT: oral cavity and oropharyngeal cancers; and more. Contains 10 relevant, practice-oriented topics including PET/CT: post-therapy follow-up in head and neck cancer; PET/CT: therapy response assessment in head and neck cancer; PET/CT: radiation therapy planning in head and neck cancer; PET/CT: nasopharyngeal cancers; and more. Provides in-depth clinical reviews on head and neck cancers, 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.**

Imaging in Alzheimer's Disease and Other Dementias

Neuroimaging Clinics of North America

Elsevier Health Sciences **Dementia is a massive and increasing global problem, with the current prevalence anticipated to double every 20 years as people live longer. Neuroimaging in dementia is recommended by most clinical guidelines and its role has traditionally been to exclude a mass lesion, rather than to support a specific diagnosis. All radiologists will be aware of a steady rise in the number of requests for brain imaging in old people, but what can imaging reliably tell us and what kind of imaging should we use? In affluent societies**

we now have a range of structural and molecular brain imaging techniques at our disposal, with specific ligands and sophisticated image analysis techniques now available for clinical use. However, we have difficulty justifying which patients to scan, using which modality and when. We know that Alzheimer's disease is the most common neuropathology contributing to a diagnosis of Alzheimer's disease but we also know from large post-mortem studies that most brain pathology in those who have died with a diagnosis of dementia is mixed. Thus understanding different diseases that can cause dementia, how these co-exist or interact and appreciating that not all dementia is Alzheimer's disease is important. Equally important is awareness of individual differences in response to a neuropathological burden and what factors provide resilience against dementia that might be maximized to reduce or postpone its impact. This issue draws together contributions from experts in their fields to provide clarity to the topic in a comprehensive collection of articles.

Artificial Intelligence and Machine Learning, an Issue of Neuroimaging Clinics of North America, Volume 30-4

Elsevier This issue of *Neuroimaging Clinics of North America* focuses on Artificial Intelligence and Machine Learning and is edited by Dr. Reza Forghani. Articles will include: A Brief History of Artificial Intelligence; Evolution of Approaches for Computerized Image Analysis; Overview of Machine Learning Part 1: Classic Approaches; Overview of Machine Learning Part 2: Artificial Neural Networks & Deep Learning; Overview of Natural Language Processing; Artificial Intelligence & Stroke Imaging: An East Coast Perspective; Artificial Intelligence & Stroke Imaging: A West Coast Perspective; Artificial Intelligence Applications for Brain Tumor Imaging; Diverse Applications of Artificial Intelligence in Neuroradiology; Artificial Intelligence Applications for Head and Neck Imaging; Artificial Intelligence Applications for Predictive Analytics and Workflow Optimization; Artificial Intelligence, Advanced Visualization, and 3D Printing; Ethical & Legal Considerations for Artificial Intelligence; Comprehensive (or 360) Artificial Intelligence: Beyond Image Interpretation Alone, and more!

Core Radiology

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Imaging of the Mediastinum, An Issue of Radiologic Clinics of North America

Elsevier Health Sciences This issue of *Radiologic Clinics of North America* focuses on Imaging of the Mediastinum and is edited by Dr. Brett W. Carter. Articles will include: ITMIG Definition of Mediastinal Compartments; Imaging of the Anterior/Prevascular Mediastinum; Thymic Epithelial Neoplasms: Radiologic-Pathologic Correlation; Thymic Epithelial Neoplasms: TNM Staging; Added Value of MR Imaging in the Evaluation of Mediastinal Lesions; Imaging of the Middle/Visceral Mediastinum; Esophageal Cancer: Radiologic-Pathologic Correlation; Esophageal Cancer: TNM Staging; Cardiac Neoplasms: Radiologic-Pathologic Correlation; Potential Pitfalls in Imaging of the Mediastinum; Imaging-guided Biopsies and Interventions of Mediastinal Lesions; Imaging of the Posterior/Paravertebral Mediastinum; and more!