CME Information

257 MRI of the Prostate: Clinical Relevance and Emerging Applications

Reviews

CME

258 MRI of the Prostate: Clinical Relevance and Emerging Applications
Yousef Mazaheri, Amita Shukla-Dave, Ada Muellner, and Hedvig Hricak

275 Cardiovascular MRI for the Assessment of Heart Failure: Focus on Clinical Management and Prognosis
Stefano Muzzarelli, Karen Ordovas, and Charles B. Higgins

Original Research

Neuroimaging

287 Whole-Brain Cerebral Blood Flow Mapping Using 3D Turbo Field Echo Imaging and Pulsed Arterial Tagging
Neville D. Gai, S. Lalith Talagala, and John A. Butman

296 Support Vector Machine Multiparametric MRI Identification of Pseudoprogression From Tumor Recurrence in Patients with Resected Glioblastoma
Xintao Hu, Kelvin K. Wong, Geoffrey S. Young, Lei Guo, and Stephen T. Wong

306 MR Spectroscopy of Normative Premature Newborns
Duan Xu, Sonia L. Bonifacio, Natalie N. Charlton, Charles P. Vaughan, Ying Lu, Donna M. Ferriero, Daniel B. Vigneron, and A. James Barkovich

Cardiovascular Imaging

312 Left Ventricular Diastolic Function Assessment from Three-Dimensional Three-Directional Velocity-Encoded MRI with Retrospective Valve Tracking

320 T2 Preparation Method for Measuring Hyperemic Myocardial O2 Consumption: In Vivo Validation by Positron Emission Tomography
Kyle S. McCommis, Robert O'Connor, Dana R. Abendschein, David Muccitrollo, Robert J. Gropler and Jie Zheng

Breast Imaging

328 Optimized Density-Weighted Imaging for Dynamic Contrast-Enhanced 3D-MR Mammography
Marcel Gutberlet, Anne Roth, Dietbert Hahn, and Herbert Köstler

Gastrointestinal Imaging

340 Dynamic Contrast-Enhanced MRI of Primary Rectal Cancer: Quantitative Correlation With Positron Emission Tomography/Computed Tomography
Jing Gu, Pek-Lan Khong, Silun Wang, Queenie Chan, Ed X. Wu, Wailun Law, Rico Kingyin Liu, and Jingbo Zhang

348 Single Region of Interest Versus Multislice T2* MRI Approach for the Quantification of Hepatic Iron Overload
Antonella Meloni, Antongiulio Luciani, Vincenzo Positano, Daniele De Marchi, Gianluca Valeri, Gennaro Restaino, Eliana Cracolici, Vincenzo Caruso, Maria Chiara Dell’Amico, Brunella Favilli, Massimo Lombardi, and Alessia Pepe

Genitourinary Imaging

356 Diffusion MRI Predicts Transrectal Ultrasound Biopsy Results in Prostate Cancer Detection
Yu-Jen Chen, Yeong-Shiau Pu, Shih-Chieh Chueh, Chia-Tung Shun, Woei-Chyn Chu, and Wen-Yih Isaac Tseng

Musculoskeletal Imaging

364 Measuring Bone Erosion and Edema in Rheumatoid Arthritis: A Comparison of Manual Segmentation and RAMRIS Methods
Angela R. Crowley, Jing Dong, Alex McHaffie, Andrew W. Clarke, Quentin Reeves, Megan Williams, Elizabeth Robinson, Nicola Dalbeth, and Fiona M. McQueen
372 Performance of MRI-Based Virtual Bone Biopsy for Structural and Mechanical Analysis at the Distal Tibia at 7T Field Strength
Yusuf A. Bhagat, Chamith S. Rajapakse, Jeremy F. Magland, James H. Love, Alexander C. Wright, Michael J. Wald, Hee Kwon Song, and Felix W. Wehrli

382 Degenerative Endplate Changes of the Lumbosacral Spine: Dynamic Contrast-Enhanced MRI Profiles Related to Age, Sex, and Spinal Level
Vasiliki Savvopoulou, Thomas G. Maris, Andreas Kourkas, Athanasios Goutelamos, and Lia A. Mouloupolou

390 Fast Spin-Echo Triple Echo Dixon: Initial Clinical Experience with a Novel Pulse Sequence for Simultaneous Fat-Suppressed and Nonfat-Suppressed T2-Weighted Spine Magnetic Resonance Imaging
Russell N. Low, Matthew J. Austin, and Jingfei Ma

401 Nonenhanced Methods for Lower-Extremity MRA: A Phantom Study Examining the Effects of Stenosis and Pathologic Flow Waveforms at 1.5T
Erik J. Offerman, Philip A. Hodnett, Robert R. Edelman, and Ioannis Koktzoglou

Body Imaging

409 Evaluation of Possible Drug–Drug Interaction Between Gadoxetic Acid and Erythromycin as an Inhibitor of Organic Anion Transporting Peptides (OATP)
Alexander Huppertz, Josy Brewer, Lueder M. Fels, Marcus Schultz-Mosgau, Gabriele Sutter, Stefan Klein, Bernd Frericks, Bernd Hamm, and Moritz Wagner

417 Susceptibility-Related MR Signal Dephasing Under Nonstatic Conditions: Experimental Verification and Consequences for qBOLD Measurements
Maja C. Sohlin and Lothar R. Schad

Technical Developments

426 Pacemaker Lead Tip Heating in Abandoned and Pacemaker-Attached Leads at 1.5 Tesla MRI
Deborah A. Langman, Ira B. Goldberg, J. Paul Finn, and Daniel B. Ennis

432 Aliasing Artifacts With the BLADE Technique: Causes and Effective Suppression
Shinya Kojima, Satoru Morita, Eiko Ueno, Masami Hirata, Hiroiuki Shinohara, and Akiyoshi Komori

Technical Notes

441 Development of a Wide-View Visual Presentation System for Visual Retinotopic Mapping During Functional MRI
Tianyi Yan, Fengzhe Jin, Jiping He, and Jinglong Wu

448 Detailed Assessment of the Hemodynamic Response to Psychosocial Stress Using Real-Time MRI
Alexander Jones, Jennifer A. Steeden, Jens C. Pruessner, John E. Deanfield, Andrew M. Taylor, and Vivek Muthurangu

455 Cardiovascular Magnetic Resonance Imaging for Accurate Sizing of the Left Atrium: Predictability of Pulmonary Vein Isolation Success in Patients With Atrial Fibrillation
Costina Jahnke, Julia Fischer, Jesus Gonzalez Mirelis, Charalampos Kriatselis, Jin-Hong Gerds-Li, Rolf Gebker, Robert Manka, Bernhard Schnackenburg, Eckart Fleck, and Ingo Paetsch

464 Correction of Left Ventricular Wall Thickening From Short-Axis Cine MRI for Basal-Descent Through-Plane Motion
Jyh-Wen Chai, Wei-Hsun Chen, Hsiian-Min Chen, Chih-Ming Chiang, Jin-Long Huang, Jachih Fu, Clayton Chi-Chang Chen, and San-Kan Lee

474 Prostate T1 Quantification Using a Magnetization-Prepared Spiral Technique
Warren D. Foltz, Masoom A. Haider, Peter Chung, Andrew Bayley, Charles Catton, Venkat Ramanan, David Jaffray, Graham A. Wright, and Cynthia Ménard
482  Scan–Rescan Reproducibility of Carotid Bifurcation Geometry From Routine Contrast-Enhanced MR Angiography
   Payam B. Bijari, Luca Antiga, Bruce A. Wasserman, and David A. Steinman

490  Interstitial MR Lymphography in Mice with Gadopentetate Dimeglumine and Gadoxetate Disodium
   Fugeng Sheng, Yusuke Inoue, Shigeru Kiryu, Makoto Watanabe, and Kuni Ohtomo

498  Prospective Motion Correction for Magnetic Resonance Spectroscopy Using Single Camera Retro-Grate Reflector Optical Tracking
   Brian C. Andrews-Shigaki, Brian S.R. Armstrong, Maxim Zaitsev, and Thomas Ernst

Letter to the Editor

505  Standardizing Predictive Values in Diagnostic Imaging Research
   Thomas F. Heston

506  Response
   Guenter Pilz, Tobias Heer, and Berthold Hoefling

Volume 33, Number 2 was mailed the week of January 24, 2011