CME Information


Review

Richard A. Jones, John R. Votaw, Khalil Salman, Puneet Sharma, C. Lurie, Bobby Kalb, and Diego R. Martin

Original Research

Neuroimaging

1284 Detection of Early Response to Temozolomide Treatment in Brain Tumors Using Hyperpolarized $^{13}$C MR Metabolic Imaging
Ilwoo Park, Robert Bok, Tomoko Ozawa, Joanna J. Phillips, C. David James, Daniel B. Vigneron, Sabrina M. Ronen, and Sarah J. Nelson

1291 Dual-Temporal Resolution Dynamic Contrast-Enhanced MRI Protocol for Blood–Brain Barrier Permeability Measurement in Enhancing Multiple Sclerosis Lesions

Cardiovascular Imaging

1321 Measurement of Aortic Arch Pulse Wave Velocity in Cardiovascular MR: Comparison of Transit Time Estimators and Description of a New Approach
Anas Dogui, Alban Redheuil, Muriel Lefort, Alain DeCesare, Nadjia Kachenoura, Alain Herment, and Elie Mousseaux

Breast Imaging

1369 Morphological Manifestations of Nonpuerperal Mastitis on Magnetic Resonance Imaging
Haiquan Liu and Weijun Peng
1375 Breast Diffusion-Weighted MRI: Comparison of Tetrahedral Versus Orthogonal Diffusion Sensitization for Detection and Localization of Mass Lesions
Takashi Ueguchi, Sachiko Yamada, Naoki Mihara, Yoshitiro Koyama, Hiromitsu Sumikawa, and Noriyuki Tomiyama

1382 The Diverse Pathology and Kinetics of Mass, Nonmass, and Focus Enhancement on MR Imaging of the Breast
Sanaz A. Jansen, Akiko Shimauchi, Lindsay Zak, Xiaobing Fan, Gregory S. Karczmar, and Gillian M. Newstead

Gastrointestinal Imaging
1390 Hepatic Fat Quantification Using Chemical Shift MR Imaging and MR Spectroscopy in the Presence of Hepatic Iron Deposition: Validation in Phantoms and in Patients With Chronic Liver Disease
Seung Soo Lee, Youngjoo Lee, Namkug Kim, Seong Wha Kim, Jae Ho Byun, Seong Ho Park, Moon-Gyu Lee, and Hyun Kwon Ha

1399 MRI Findings of Recurrent Hepatocellular Carcinoma After Liver Transplantation: Preliminary Results
Chang Hee Lee, Lauren M. Brubaker, David A. Gerber, Young Mi Ku, Young Hoon Kim, Sang Soo Shin, and Richard C. Semelka

Genitourinary Imaging
1406 Vascular Staging of Renal and Adrenal Malignancies With a Noncontrast Enhanced Steady State Free Precession Technique
Christine U. Lee and James F. Glockner

1414 Reproducibility of Renal Perfusion MR Imaging in Native and Transplanted Kidneys Using Non-Contrast Arterial Spin Labeling
Nathan S. Artz, Elizabeth A. Sadowski, Andrew L. Wentland, Arjang Djamali, Thomas M. Grist, Songwon Seo, and Sean B. Fain

Musculoskeletal Imaging
1422 Segmentation of the Quadratus Lumborum Muscle Using Statistical Shape Modeling
Craig M. Engstrom, Jurgen Fripp, Valer Jurcak, Duncan G. Walker, Olivier Salvado, and Stuart Crozier

Vascular Imaging
1430 Noncontrast MR Angiography for Comprehensive Assessment of Abdominopelvic Arteries Using Quadruple Inversion-Recovery Preconditioning and 3D Balanced Steady-State Free Precession Imaging
Iliyana P. Atanasova, Daniel Kim, Ruth P. Lim, Pippa Storey, Sooh Kim, Hua Guo, and Vivian S. Lee

1440 Diagnostic Value of the Flow Profile in the Distal Descending Aorta by Phase-Contrast Magnetic Resonance for Predicting Severe Coarctation of the Aorta
Stefano Muzzarelli, Karen Gomes Ordovas, Michael D. Hope, Jeffery J. Meadows, Charles B. Higgins, and Alison Knauth Meadows

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1447 Adiabatic Localized Correlation Spectroscopy (AL-COSY): Application in Muscle and Brain
Saadallah Ramadan and Carolyn E. Mountford

Technical Developments
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Daniel L. Polders, Alexander Leemans, Jeroen Hendrikse, Manus J. Donahue, Peter R. Luijten, and Johannes M. Hoogduin

1464 Fast Lipid and Water Levels by Extraction with Spatial Smoothing (FLAWLESS): Three-Dimensional Volume Fat/Water Separation at 7 Tesla
Sreenath Narayan, Fangping Huang, David Johnson, Madhusudhana Gargesha, Chris A. Flask, Guo-Qiang Zhang, and David L. Wilson

1474 Proton Resonance Frequency Shift-Weighted Imaging for Monitoring MR-Guided High-Intensity Focused Ultrasound Transmissions
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**Book Review**

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**Erratum**

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TITLE: Ultrashort echo time imaging of the lungs under high-frequency noninvasive ventilation: A new approach to lung imaging

BACKGROUND: Although ultrashort