CME Article

1 An Introduction to ASL Labeling Techniques
Eric C. Wong

Editorial

11 NSF: Still Relevant
Henrik S. Thomsen

Original Research

Pediatric

13 Clinical Performance of Contrast Enhanced Abdominal Pediatric MRI With Fast Combined Parallel Imaging Compressed Sensing Reconstruction
Tao Zhang, Shilpy Choudhury, Michael Lustig, Richard A. Barth, Marcus T. Alley, Thomas Grafendorfer, Paul D. Calderon, Fraser J.L. Robb, John M. Pauly, and Shreyas S. Vasanawala

Whole Body

26 Whole-Body MRI, Including Diffusion-Weighted Imaging, for Staging Lymphoma: Comparison With CT in a Prospective Multicenter Study
Thomas C. Kwee, Malou A. Vermoolen, Erik A. Akkerman, Marie José Kersten, Rob Fijnheer, Inge Ludwig, Frederik J.A. Beek, Maarten S. van Leeuwen, Marc B. Bierings, Marrie C.A. Bruin, József Zsíros, Henriëtte M.E. Quarles van Ufford, John M.H. de Klerk, Judit Adam, Jaap Stoker, Cuno S. Uiterwaal, and Rutger A.J. Nieuwland

Neurologic

37 Test–Retest Reliability of fMRI Activation Generated by Different Saccade Tasks

47 Machine Learning in Preoperative Glioma MRI: Survival Associations by Perfusion-Based Support Vector Machine Outperforms Traditional MRI

Clinical Note

Neurologic

55 Real-Time and Three-Dimensional MRI for Diagnosis of Pharyngoele
Louisa Traser, Claudia Spahn, Bernhard Richter, Tobias Baumann, Martin Schumacher, and Matthias Echternach

Original Research

Abdomen

58 Abdominal MRI at 3.0 T: LAVA-Flex Compared With Conventional Fat Suppression T1-Weighted Images
Xing Hui Li, Jiang Zhu, Xiao Ming Zhang, Yi Fan Ji, Tian Wu Chen, Xiao Hua Huang, Lin Yang, and Nan Lin Zeng

67 A Novel Semiautomatic Parenchyma Extraction Method for Improved MRI R2* Relaxometry of Iron Loaded Liver
Yanqiu Feng, Meiyan Peng, Huashuai Gao, Xinyuan Zhang, Xuegang Xin, Qianjin Feng, Wefan Chen, and Taigang He

79 Age-Related Change in Renal Corticomedullary Differentiation: Evaluation With Noncontrast-Enhanced Steady-State Free Precession (SSFP) MRI With Spatially Selective Inversion Pulse Using Variable Inversion Time
Yasufumi Noda, Akihiko Kanki, Akira Yamamoto, Hiroki Higashi, Daigo Tanimoto, Tomohiro Sato, Atsushi Higaki, Tsutomu Tamada, and Katsuyoshi Ito

84 Functional Evaluation of Transplanted Kidneys Using Arterial Spin Labeling MRI
Regional Perfusion Imaging Using pTILT
Cheng Ouyang and Bradley P. Sutton

Accuracy of Diffusion-Weighted (DW) MRI With Background Signal Suppression (MR-DWIBS) in Diagnosis of Mediastinal Lymph Node Metastasis of Nonsmall-Cell Lung Cancer (NSCLC)
Liang Xu, Jiakai Tian, Yuhui Liu, and Chuanfu Li

Real-Time Flow MRI of the Aorta at a Resolution of 40 msec
Arun Joseph, Johannes T. Kowallick, Klaus-Dietmar Merboldt, Dirk Voit, Sebastian Schaetz, Shuo Zhang, Jan M. Sohns, Joachim Lotz, and Jens Frahm

Reduction of Motion Artifacts in Carotid MRI Using Free-Induction Decay Navigators
Petter Dyverfeldt, Vibhas S. Deshpande, Tobias Kober, Gunnar Krueger, and David Saloner

Fully Automated Tool to Identify the Aorta and Compute Flow Using Phase-Contrast MRI: Validation and Application in a Large Population Based Study
Akshay Goel, Roderick McColl, Kevin S. King, Anthony Whittemore, and Ronald M. Peshock

Feasibility of Three-Dimensional MRI of Proximal Femur Microarchitecture at 3 Tesla Using 26 Receive Elements Without and With Parallel Imaging
Gregory Chang, Cem M. Deniz, Stephen Honig, Chamith S. Rajapakse, Kenneth Egel, Ravinder R. Regatte, and Ryan Brown

Manual Segmentation of Individual Muscles of the Quadriceps Femoris Using MRI: A Reappraisal
Yoann Barnoun, Gillian Butler-Browne, Thomas Voit, David Reversat, Noura Azzabou, Gaëlle Leroux, Anthony Behin, Jamie S. McPhee, Pierre G. Cartier, and Jean-Yves Hogrel

Measurements and Classifications in Musculoskeletal Radiology
Elaine S. Gould