

CME Information

- 1 Glenohumeral Joint Instability**

Review

CME

- 2 Glenohumeral Joint Instability**

Patrick Omoumi, Pedro Teixeira, Frédéric Lecouvet, and Christine B. Chung

Original Research

Neuroimaging

- 17 Preliminary Evidence of Altered Gray and White Matter Microstructural Development in the Frontal Lobe of Adolescents With Attention-Deficit Hyperactivity Disorder: A Diffusional Kurtosis Imaging Study**

Joseph A. Helpern, Vitria Adisetiyo, Maria F. Falangola, Caixia Hu, Adriana Di Martino, Kathleen Williams, Francisco X. Castellanos, and Jens H. Jensen

- 24 Increased Gray Matter Volume of Left Pars Opercularis in Male Orchestral Musicians Correlate Positively With Years of Musical Performance**

Ihssan A. Abdul-Kareem, Andrej Stancak, Laura M. Parkes, and Vanessa Sluming

- 33 Divergent Neural Processes Specific to the Acute and Sustained Phases of Verum and Sham Acupuncture**

Jixin Liu, Wei Qin, Qian Guo, Jinbo Sun, Kai Yuan, Minghao Dong, Peng Liu, Yi Zhang, Karen M. von Deneen, Yijun Liu, and Jie Tian

- 41 Relationship Between Sodium Intensity and Perfusion Deficits in Acute Ischemic Stroke**

Adrian Tsang, Robert W. Stobbe, Negar Asdaghi, Muhammad S. Hussain, Yusuf A. Bhagat, Christian Beaulieu, Derek Emery, and Ken S. Butcher

- 48 3 Tesla MRI Detects Accelerated Hippocampal Volume Reduction in Postmenopausal Women**

Masami Goto, Osamu Abe, Tosiaki Miyati, Sachiko Inano, Naoto Hayashi, Shigeki Aoki, Harushi Mori, Hiroyuki Kabasawa, Kenji Ino, Keiichi Yano, Kyouhito Iida, Kazuo Mima, and Kuni Ohtomo

- 54 Reliability of Two Techniques for Assessing Cerebral Iron Deposits With Structural Magnetic Resonance Imaging**

Maria C. Valdés Hernández, Tina H. Jeong, Catherine Murray, Mark E. Bastin, Francesca M. Chappell, Ian J. Deary, and Joanna M. Wardlaw

- 62 Mapping Developmental Precentral and Postcentral Gyral Changes in Children on Magnetic Resonance Images**

Faguo Yang and Zuyao Y. Shan

Cardiovascular Imaging

- 71 Low-Dose 3D Time-Resolved Magnetic Resonance Angiography (MRA) of the Supraaortic Arteries: Correlation With High Spatial Resolution 3D Contrast-Enhanced MRA**

Youn-Joo Lee, Gerhard Laub, So-Lyung Jung, Won-Jong Yoo, Young-Joo Kim, Kook-Jin Ahn, and Bum-soo Kim

- 77 High-Resolution 3D Coronary Vessel Wall Imaging With Near 100% Respiratory Efficiency Using Epicardial Fat Tracking: Reproducibility and Comparison With standard methods**

Andrew D. Scott, Jennifer Keegan, and David N. Firmin

- 87 Cardiac MRI to Investigate Myocardial Scar and Coronary Venous Anatomy Using a Slow Infusion of Dimeglumine Gadobenate in Patients Undergoing Assessment for Cardiac Resynchronization Therapy**

Simon G. Duckett, Amedeo Chiribiri, Matthew R. Ginks, Stephen Sinclair, Benjamin R. Knowles, Rene Botnar, Gerry S. Carr-White, Christopher A. Rinaldi, Eike Nagel, Reza Razavi, and Tobias Schaeffter

(continued on next page)

- Breast Imaging**
- 96 Dynamic Contrast-Enhanced Magnetic Resonance Imaging and Invasive Breast Cancer: Primary Lesion Kinetics Correlated With Axillary Lymph Node Extracapsular Extension**
Christopher R. Loiselle, Peter R. Eby, Sue Peacock, Janice N. Kim, and Constance D. Lehman
- 102 Correlation of the Apparent Diffusion Coefficient Value and Dynamic Magnetic Resonance Imaging Findings With Prognostic Factors in Invasive Ductal Carcinoma**
Su Kyung Jeh, Sung Hun Kim, Hyeon Sook Kim, Bong Joo Kang, Seung Hee Jeong, Hyeon Woo Yim, and Byung Joo Song
- Gastrointestinal Imaging**
- 110 Optimization of Single Injection Liver Arterial Phase Gadolinium Enhanced MRI Using Bolus Track Real-Time Imaging**
Puneet Sharma, Bobby Kalb, Hiroumi D. Kitajima, Khalil N. Salman, Bobbie Burrow, Gaye L. Ray, and Diego R. Martin
- 119 Liver Methylene Fraction by Dual- and Triple-Echo Gradient-Echo Imaging at 3.0T: Correlation With Proton MR Spectroscopy and Estimation of Robustness After SPIO Administration**
Boris Guiu, Jean-Michel Petit, Romaric Loffroy, Serge Aho, Douraied Ben Salem, David Masson, Isabelle Robin, Bruno Vergès, Patrick Hillon, Jean-Pierre Cercueil, and Denis Krausé
- 128 Diffusion-Weighted Imaging of the Abdomen at 3.0 Tesla: Image Quality and Apparent Diffusion Coefficient Reproducibility Compared With 1.5 Tesla**
Andrew B. Rosenkrantz, Marcel Oei, James S. Babb, Benjamin E. Niver, and Bachir Taouli
- 136 Diffusion-Weighted Magnetic Resonance Imaging of Pancreatic Adenocarcinomas: Association With Histopathology and Tumor Grade**
Yi Wang, Zongming E. Chen, Paul Nikolaidis, Robert J. McCarthy, Laura Merrick, Laura A. Sternick, Jeanne M. Horowitz, Vahid Yaghmai, and Frank H. Miller
- 143 Evaluation of Respiratory Liver and Kidney Movements for MRI Navigator Gating**
Ruitian Song, Aaryani Tipirneni, Perry Johnson, Ralf B. Loeffler, and Claudia M. Hillenbrand
- 149 Gadoteric Acid Disodium-Enhanced Magnetic Resonance Imaging for Biliary and Vascular Evaluations in Preoperative Living Liver Donors: Comparison With Gadobenate Dimeglumine-Enhanced MRI**
Myoung Seok Lee, Jae Young Lee, Seung Ho Kim, Hee Sun Park, Se Hyung Kim, Jeong Min Lee, Joon Koo Han, and Byung Ihn Choi
- 160 Three-Dimensional Contrast-Enhanced Hepatic MR Imaging: Comparison Between a Centric Technique and a Linear Approach With Partial Fourier Along Both Slice and Phase Directions**
Kyung Ah Kim, Gwenael Herigault, Myeong-Jin Kim, Young Eun Chung, Hye-Suk Hong, and Sun Young Choi
- Genitourinary Imaging**
- 167 Clinical Utility of Apparent Diffusion Coefficient (ADC) Values in Patients With Prostate Cancer: Can ADC Values Contribute to Assess the Aggressiveness of Prostate Cancer?**
Yasushi Itou, Katsuyuki Nakanishi, Yoshifumi Narumi, Yasuko Nishizawa, and Hideaki Tsukuma
- Musculoskeletal Imaging**
- 173 Diagnostic Value of Delineating Deep Fascia in Distinguishing Between Benign and Malignant Soft-Tissue Tumors in Lower Limbs Using 3.0 T Magnetic Resonance Imaging**
Li Liu, Ning Wu, and Han Ouyang
- 180 Advanced Morphological 3D Magnetic Resonance Observation of Cartilage Repair Tissue (MOCART) Scoring Using a New Isotropic 3D Proton-Density, Turbo Spin Echo Sequence With Variable Flip Angle Distribution (PD-SPACE) Compared to an Isotropic 3D Steady-State Free Precession Sequence (True-FISP) and Standard 2D Sequences**
Goetz H. Welsch, Lukas Zak, Tallal C. Mamisch, Dominik Paul, Lars Lauer, Andreas Mauerer, Stefan Marlovits, and Siegfried Trattnig

- 189 Usefulness of Diffusion-Weighted Imaging for Differentiating Between Desmoid Tumors and Malignant Soft Tissue Tumors**
Kiyoshi Oka, Toshitake Yakushiji, Hiro Sato, Toru Fujimoto, Toshinori Hirai, Yasuyuki Yamashita, and Hiroshi Mizuta
- Body Imaging**
- 194 T₁-Weighted Ultrashort Echo Time Method for Positive Contrast Imaging of Magnetic Nanoparticles and Cancer Cells Bound With the Targeted Nanoparticles**
Longjiang Zhang, Xiaodong Zhong, Liya Wang, Hongwei Chen, Y. Andrew Wang, Julie Yeh, Lily Yang, and Hui Mao
- 203 Quantification of Fat Infiltration in Oculopharyngeal Muscular Dystrophy: Comparison of Three MR Imaging Methods**
Monika Gloor, Susanne Fasler, Arne Fischmann, Tanja Haas, Oliver Bieri, Karl Heinimann, Stephan G. Wetzel, Klaus Scheffler, and Dirk Fischer
- Clinical Notes**
- 211 Papillary Muscle Involvement in Myocardial Infarction: Initial Results Using Multicontrast Late-Enhancement MRI**
Yuesong Yang, Kim Connelly, John J. Graham, Jay Detsky, Tony Lee, Rhonda Walcarius, Gideon Paul, Graham A. Wright, and Alexander J. Dick
- 217 Renal Cell Carcinoma Associated With Xp11.2 Translocation/TFE3 Gene Fusion: Radiological Findings Mimicking Papillary Subtype**
Hiroki Kato, Masayuki Kanematsu, Shigeaki Yokoi, Kousei Miwa, Kengo Horie, Takashi Deguchi, and Yoshinobu Hirose
- 221 Lipoma Arborescens of the Peroneal Tendon Sheath**
Hicham Moukaddam, Edward Smitaman, and Andrew H. Haims
- Technical Notes**
- 225 Time-Resolved Magnetic Resonance Angiography: Evaluation of Intrapulmonary Circulation Parameters in Pulmonary Arterial Hypertension**
Hyun J. Jeong, Parmede Vakil, John J. Sheehan, Sanjiv J. Shah, Michael Cuttica, James C. Carr, Timothy J. Carroll, and Amir Davarpanah
- 232 Automatic Segmentation Propagation of the Aorta in Real-Time Phase Contrast MRI Using Nonrigid Registration**
Freddy Odille, Jennifer A. Steeden, Vivek Muthurangu, and David Atkinson
- 239 Effects of Postprandial State and Mesenteric Blood Flow on the Repeatability of MR Elastography in Asymptomatic Subjects**
Catherine D.G. Hines, Mary J. Lindstrom, Adarsh K. Varma, and Scott B. Reeder
- 245 High-Resolution Interleaved Water-Fat MR Imaging of Finger Joints With Chemical-Shift Elimination**
Wingchi E. Kwok, Zhigang You, Gwysuk Seo, Amy Lerner, Saara Totterman, Christopher Ritchlin, and Johnny Monu
- Letter to the Editor**
- 252 Controversial Findings in “Three-Dimensional Velocity Mapping of Thoracic Aorta and Supra-aortic Arteries in Takayasu Arteritis”**
Alex Frydrychowicz, Ben Landgraf, and Michael Markl
- 254 Response**
Yasuo Amano, Ryo Takagi, and Tetsuro Sekine
- Errata**
- 255 Yoshimitsu K, Kuroda Y, Nakamuta M, et al. Noninvasive Estimation of Hepatic Steatosis Using Plain CT vs. Chemical-Shift MR Imaging: Significance for Living Donors. J Magn Reson Imaging 2008;28:678–684**
- 256 Andronesi OC, Mintzopoulos D, Psychogios N, et al. Combined Off-Resonance Imaging and T2 Relaxation in the Rotating Frame for Positive Contrast MR Imaging of Infection in a Murine Burn Model. J Magn Reson Imaging 2010;32:1172–1183**