

JMRI-ISMRM Recommendation

323 Consensus-Based Technical Recommendations for Clinical Translation of Renal Phase Contrast MRI

Anneloes de Boer, Giulia Villa, Octavia Bane, Michael Bock, Eleanor F. Cox, Ilona A. Dekkers, Per Eckerbom, Maria A. Fernández-Seara, Susan T. Francis, Bryan Haddock, Michael E. Hall, Pauline Hall Barrientos, Ingo Hermann, Paul D. Hockings, Hildo J. Lamb, Christoffer Laustsen, Ruth P. Lim, David M. Morris, Steffen Ringgaard, Suraj D. Serai, Kanishka Sharma, Steven Sourbron, Yasuo Takehara, Andrew L. Wentland, Marcos Wolf, Frank G. Zöllner, Fabio Nery, and Anna Caroli

Editorial

336 Editorial for "Consensus-Based Technical Recommendations for Clinical Translation of Renal Phase Contrast MRI"

Hyun-Seo Ahn

Review Articles

337 Acoustic Noise and Magnetic Resonance Imaging: A Narrative/Descriptive Review

Mark J. McJury

347 From 2D to 4D Phase-Contrast MRI in the Neurovascular System: Will It Be a Quantum Jump or a Fancy Decoration?

Sung Won Youn and Jongmin Lee

373 Primer and Historical Review on Rapid Cardiac CINE MRI

Aaron D. Curtis and Hai-Ling M. Cheng

389 Proton Resonance Frequency Shift Thermometry: A Review of Modern Clinical Practices

James Blackwell, Marcin J. Kraśny, Aoife O'Brien, Keyoumars Ashkan, Josette Galligan, Michel Destrade, and Niall Colgan

404 Proton MR Spectroscopy in Assessing the Biochemical Milieu of Human Testes

Athina C. Tsili, Loukas Astrakas, Nikolaos Sofikitis, and Maria I. Argyropoulou

Research Articles

Head and Neck

414 Application of Diffusion Kurtosis Imaging and Dynamic Contrast-Enhanced Magnetic Resonance Imaging in Differentiating Benign and Malignant Head and Neck Lesions

Jingfeng Cheng, Shuo Shao, Weibo Chen, and Ning Zheng

Neuro

424 Disturbed Interhemispheric Functional and Structural Connectivity in Type 2 Diabetes

Ying Cui, Tian-Yu Tang, Chun-Qiang Lu, Tong Lu, Yuan-Cheng Wang, Gao-Jun Teng, and Shenghong Ju

435 Assessment of the Precision in Measuring Glutathione at 3 T With a MEGA-PRESS Sequence in Primary Motor Cortex and Occipital Cortex

Adriana Anton, Richard J. Mead, Pamela J. Shaw, Richard A. E. Edden, Julia Bigley, Thomas M. Jenkins, Jim M. Wild, Nigel Hoggard, and Iain D. Wilkinson

443 Magnetic Resonance Imaging-Based Structural Covariance Changes of the Striatum in Lifelong Premature Ejaculation Patients

Jiayu Wu, Ming Gao, Ruiqing Piao, Nana Feng, Bowen Geng, and Peng Liu

451 A Multi-sequence MRI Study in Parkinson's Disease: Association Between Rigidity and Myelin

Jiayue Cai, Jowon L. Kim, Tobias R. Baumeister, Maria Zhu, Yuheng Wang, Aiping Liu, Soojin Lee, and Martin J. McKeown

Editorial

463 Editorial for "A Multi-sequence MRI Study in Parkinson's Disease: Association Between Rigidity and Myelin"

Jeong-Won Jeong and Csaba Juhász

- Pelvis** 465 **Detection of Prostate Cancer Using Biparametric Prostate MRI, Radiomics, and Kallikreins: A Retrospective Multicenter Study of Men With a Clinical Suspicion of Prostate Cancer**
Ileana Montoya Perez, Harri Merisaari, Ivan Jambor, Otto Ettala, Pekka Taimen, Juha Knaapila, Henna Kekki, Ferdhos L. Khan, Elise Syrjälä, Aida Steiner, Kari T. Syvänen, Janne Verho, Marjo Seppänen, Antti Rannikko, Jarno Riikonen, Tuomas Mirtti, Tarja Lamminen, Jani Saunavaara, Ugo Falagario, Alberto Martini, Tapio Pahikkala, Kim Pettersson, Peter J. Boström, and Hannu J. Aronen
- Editorial** 478 **Editorial for "Diagnostic Performance of Prostate MRI Radiomics, Four Kallikrein Panel and Radiologist in the Detection of Prostate Cancer: A Retrospective External Validation Multi-center Study of Men With a Clinical Suspicion of Prostate Cancer"**
Rashmi T. Nair, Adrian A. Dawkins, and Halemane S. Ganesh
- 480 **Convolutional Neural Networks for Automated Classification of Prostate Multiparametric Magnetic Resonance Imaging Based on Image Quality**
Stefano Cipollari, Valerio Guarrasi, Martina Pecoraro, Marco Bicchetti, Emanuele Messina, Lorenzo Farina, Paola Paci, Carlo Catalano, and Valeria Panebianco
- Editorial** 491 **Editorial on "Convolutional Neural Networks for Automated Classification of Prostate Multiparametric Magnetic Resonance Imaging Based on Image Quality"**
Valdair F. Muglia and Antonio Carlos Westphalen
- Abdomen** 493 **Data-Driven Modification of the LI-RADS Major Feature System on Gadoxetate Disodium-Enhanced MRI: Toward Better Sensitivity and Simplicity**
Hanyu Jiang, Bin Song, Yun Qin, Yi Wei, Meghana Konanur, Yuanan Wu, Islam H. Zaki, Matthew D.F. McInnes, Kyle J. Lafata, and Mustafa R. Bashir
- 507 **Staging Liver Fibrosis: Comparison of Native T1 Mapping, T2 Mapping, and T1ρ: An Experimental Study in Rats With Bile Duct Ligation and Carbon Tetrachloride at 11.7 T MRI**
Yimei Lu, Qianfeng Wang, Tingting Zhang, Jinning Li, Huanhuan Liu, Defan Yao, Liang Hou, Beiwu Tu, and Dengbin Wang
- 518 **Noninvasive Evaluation of Renal Hypoxia by Multiparametric Functional MRI in Early Diabetic Kidney Disease**
Rui Wang, Zhiyong Lin, Xuedong Yang, Kai Zhao, Suxia Wang, Xueqing Sui, Tao Su, and Xiaoying Wang
- Editorial** 528 **Editorial for "Noninvasive Evaluation of Renal Hypoxia by Multiparametric Functional MRI in Early Diabetic Kidney Disease"**
Cory R. Wyatt and Alexander R. Guimaraes
- 530 **Concentration of Gallbladder Phosphatidylcholine in Cholangiopathies: A Phosphorus-31 Magnetic Resonance Spectroscopy Pilot Study**
Lorenz Pflieger, Emina Halilbasic, Martin Gajdošik, Diana Benčíková, Marek Chmelík, Thomas Scherer, Siegfried Trattning, Michael Krebs, Michael Trauner, and Martin Krššák
- Editorial** 541 **Editorial for "Concentration of Gallbladder Phosphatidylcholine in Cholangiopathies: A ³¹P MR Spectroscopy Pilot Study"**
Jürgen Machann
- Pediatrics** 543 **MRI Characteristics of Pediatric Renal Tumors: A SIOP-RTSG Radiology Panel Delphi Study**
Justine N. van der Beek, Tom A. Watson, Rutger A.J. Nievelstein, Hervé J. Brisse, Carlo Morosi, Henrique M. Lederman, Ana Coma, Maria M. Gavra, Kristina Vult von Steyern, Karoly Lakatos, Luc Breysem, Edit Varga, Hubert Ducou Le Pointe, Maarten H. Lequin, Jürgen F. Schäfer, Hans-Joachim Mentzel, Andreas M. Hötker, Giuseppina Calareso, Sophie Swinson, Martin Kyncl, Claudio Granata, Michael Aertsen, Pier Luigi Di Paolo, Ronald R. de Krijger, Norbert Graf, Øystein E. Olsen, Jens-Peter Schenk, Marry M. van den Heuvel-Eibrink, and Annemieke S. Littooi
- Editorial** 553 **Editorial for "MRI-Characteristics of Pediatric Renal Tumors: A SIOP-RTSG Radiology Panel Delphi Study": Standardized Assessment of Pediatric Renal Tumors with MRI: A Laudable Objective That Requires Further Investigation**
Christian B. van der Pol, Ali Yikilmaz, and Nicola Schieda
- Cardiac** 555 **Inflammation in Remote Myocardium and Left Ventricular Remodeling After Acute Myocardial Infarction: A Pilot Study Using T2 Mapping**
Meng-xi Yang, Ke Shi, Hua-yan Xu, Yong He, Min Ma, Lu Zhang, Jun-long Wang, Xue-sheng Li, Chuan Fu, Hong Li, Bin Zhou, Xiao-yue Zhou, Zhi Yang, Ying-kun Guo, and Zhi-gang Yang

<i>Editorial</i>	565	Editorial for "Inflammation in Remote Myocardium and Left Ventricular Remodeling After Acute Myocardial Infarction: A Pilot Study Using T2 Mapping" <i>Pier Giorgio Masci and Jan Bogaert</i>
	567	Nonenhanced Chemical Exchange Saturation Transfer Cardiac Magnetic Resonance Imaging in Patients With Amyloid Light-Chain Amyloidosis <i>Xiao Li, Sisi Huang, Pei Han, Zhengwei Zhou, Linda Azab, Meng Lu, Jian Li, Jing An, Yihan Cao, Zhengyu Jin, Debiao Li, and Yining Wang</i>
<i>Editorial</i>	577	Editorial for "Non-enhanced Chemical Exchange Saturation Transfer Cardiac Magnetic Resonance Imaging in Patients With Amyloid Light Chain Amyloidosis" <i>Patrick M. Winter</i>
	579	Clinical Application of Non-Contrast-Enhanced Dixon Water-Fat Separation Compressed SENSE Whole-Heart Coronary MR Angiography at 3.0 T With and Without Nitroglycerin <i>Hongfei Lu, Shihai Zhao, Di Tian, Shan Yang, Jianying Ma, Yinyin Chen, Meiyang Ge, Mengsu Zeng, and Hang Jin</i>
<i>Editorial</i>	592	Editorial for "Clinical Application of Non-Contrast-Enhanced Dixon Water-Fat Separation Compressed SENSE Whole-Heart Coronary MR Angiography at 3.0 T With and Without Nitroglycerin" <i>Eun-Ju Kang and Jongmin Lee</i>
Musculoskeletal	594	Different Attenuation Models of Diffusion-Weighted MR Imaging for the Differentiation of Benign and Malignant Musculoskeletal Tumors <i>Sevtap Arslan, Fatma Bilge Ergen, Güzide Burça Aydın, Mehmet Ayvaz, Jale Karakaya, Kemal Kösemehmetoğlu, Adalet Elçin Yıldız, and Üstün Aydingöz</i>
<i>Editorial</i>	608	Editorial for "Different Attenuation Models of Diffusion-Weighted Imaging for the Differentiation of Benign and Malignant Musculoskeletal Tumors: A Volumetric in Addition to the Standard Approach" <i>Yuchen Tang and Bin Geng</i>
	610	Analysis of MR Signs to Distinguish Between ARCO Stages 2 and 3A in Osteonecrosis of the Femoral Head <i>Shan Shi, Ping Luo, Li Sun, Yanping Zhao, Xuedong Yang, Limin Xie, Tong Yu, and Zhenchang Wang</i>
<i>Editorial</i>	618	Editorial for "Analysis of MR Signs to Distinguish Between ARCO Stages 2 and 3A in Osteonecrosis of the Femoral Head" <i>Anup Singh</i>
Letter to the Editor	620	T1 and T2 Mapping for Early Detection of Treatment-Related Myocardial Changes in Breast Cancer Patients <i>Sofia Kvernby, Anna M. Flejmer, Alexandru Dasu, Ann F. Bolger, Tino Ebbers, and Jan E. Engvall</i>