

Review Article

1039 **MRI of Temporomandibular Joint Disorders: Recent Advances and Future Directions**

Xin Xiong, Zheng Ye, Hehan Tang, Yi Wei, Lisha Nie, Xiaocheng Wei, Yang Liu, and Bin Song

Research Articles

Neuro

1053 **Multi-Parametric Evaluation of Cerebral Hemodynamics in Neonatal Piglets Using Non-Contrast-Enhanced Magnetic Resonance Imaging Methods**

Dapeng Liu, Dengrong Jiang, Aylin Tekes, Ewa Kulikowicz, Lee J. Martin, Jennifer K. Lee, Peiyong Liu, and Qin Qin

1066 **Tissue Probability Based Registration of Diffusion-Weighted Magnetic Resonance Imaging**

Cfir Malovani, Naama Friedman, Noam Ben-Eliezer, and Ido Tavor

1077 **T2 Relaxometry Evidence of Microstructural Changes in Diffusely Abnormal White Matter in Relapsing–Remitting Multiple Sclerosis and Clinically Isolated Syndrome: Impact on Visuomotor Performance**

Efrosini Papadaki, Vasileios Mastorodemos, Theodora Panou, Styliani Pouli, Eirini Spyridaki, Eleftherios Kavroulakis, Georgios Kalaitzakis, Thomas G. Maris, and Panagiotis Simos

1088 **One-Minute Multi-contrast Echo Planar Brain MRI in Ischemic Stroke: A Retrospective Observational Study of Diagnostic Performance**

Annika Kits, Francesca De Luca, Jens Kolloch, Susanne Müller, Michael V. Mazya, Stefan Skare, and Anna Falk Delgado

Editorial

1096 **Editorial for “One-Minute Multi-Contrast Echo Planar Brain MRI in Ischemic Stroke - A Retrospective Observational Study of Diagnostic Performance”**

Yang Duan and Zhihua Xu

1098 **Serum Ceruloplasmin Depletion is Associated With Magnetic Resonance Evidence of Widespread Accumulation of Brain Iron in Parkinson's Disease**

Xiaojun Guan, Xueqin Bai, Cheng Zhou, Tao Guo, Jingjing Wu, Luyan Gu, Ting Gao, Xuchu Wang, Hongjiang Wei, Yuyao Zhang, Min Xuan, Quanquan Gu, Peiyu Huang, Chunlei Liu, Baorong Zhang, Jiali Pu, Zhe Song, Yaping Yan, Xiaojun Xu, and Minming Zhang

Editorial

1107 **Editorial for “Serum Ceruloplasmin Depletion is Associated With the Widespread Accumulation of Brain Iron in Parkinson's Disease”**

Rakesh Kumar Gupta

Vascular

1108 **Value of Dynamic Contrast-Enhanced (DCE) MRI in Predicting Response to Foam Sclerotherapy of Venous Malformations**

Zhipeng Xia, Hao Gu, Ying Yuan, Shiyu Xiang, Zimin Zhang, and Xiaofeng Tao

Editorial

1117 **Editorial for “Value of Dynamic Contrast Enhanced (DCE) MRI in Predicting Response to Foam Sclerotherapy of Venous Malformations”**

James T. Grist and Fulvio Zaccagna

Pediatrics

1119 **Survey of Acoustic Output in Neonatal Brain Protocols**

Hannah R. Kurdila, Tayeb Zaidi, Ting Zhang, Subha Maruvada, and Sunder Rajan

Abdomen

1126 **Diagnostic Accuracy of MRI for Differentiation of Benign and Malignant Pancreatic Cystic Lesions Compared to CT and Endoscopic Ultrasound: Systematic Review and Meta-analysis**

Amar Udare, Minu Agarwal, Mostafa Alabousi, Matthew McInnes, Julian G. Rubino, Michael Marcaccio, and Christian B. van der Pol

1138 **Free-Breathing Abdominal Magnetic Resonance Fingerprinting Using a Pilot Tone Navigator**

Sherry S. Huang, Rasim Boyacioglu, Reid Bolding, Christina MacAskill, Yong Chen, and Mark A. Griswold

1152 **Use of Three-Dimensional Arterial Spin Labeling to Evaluate Renal Perfusion in Patients With Chronic Kidney Disease**

Fang Lu, Jing Yang, Shuohui Yang, Kuehn Bernd, Caixia Fu, Chenyao Yang, Huihui Xu, Mengxiao Liu, Songhua Zhan, Chen Wang, Rongfang Guo, and Yu Wu

- Editorial** 1164 **Editorial for "Use of Three-Dimensional Arterial Spin Labeling to Evaluate Renal Perfusion in Patients with Chronic Kidney Disease"**
Hyun-Seo Ahn
- 1166 **Limits of Fat Quantification in the Presence of Iron Overload**
Timothy J. Colgan, Ruiyang Zhao, Nathan T. Roberts, Diego Hernando, and Scott B. Reeder
- Editorial** 1175 **Editorial for "Limits of Fat Quantification With Chemical Shift Encoded"**
Manuela França
- 1177 **Abbreviated Magnetic Resonance Imaging With Breath-Hold Three-Dimensional Magnetic Resonance Cholangiopancreatography: Assessment of Malignant Risk of Pancreatic Intraductal Papillary Mucinous Neoplasm**
Jeongin Yoo, Ji Hye Min, Dong Ho Lee, Bo Yun Hur, Se Woo Kim, and Eunju Kim
- Editorial** 1187 **Editorial for "Abbreviated Magnetic Resonance Imaging With Breath-Hold 3-Dimensional Magnetic Resonance Cholangiopancreatography: Assessment of Malignant Risks of Pancreatic Intraductal Papillary Mucinous Neoplasms"**
Sikandar Shaikh
- Technical** 1189 **Cross-Scanner Harmonization of Neuromelanin-Sensitive MRI for Multisite Studies**
Kenneth Wengler, Clifford Cassidy, Marieke van der Pluijm, Jodi J. Weinstein, Anissa Abi-Dargham, Elsmarieke van de Giessen, and Guillermo Horga
- Pelvis** 1200 **Amide Proton Transfer-Weighted Imaging and Multiple Models Diffusion-Weighted Imaging Facilitates Preoperative Risk Stratification of Early-Stage Endometrial Carcinoma**
Nan Meng, Ting Fang, Pengyang Feng, Zhun Huang, Jing Sun, Xuejia Wang, Jie Shang, Kaiyu Wang, Dongming Han, and Meiyun Wang
- 1212 **Detecting Muscle Invasion of Bladder Cancer Using a Proposed Magnetic Resonance Imaging Strategy**
Xiangyu Wang, Ning Tu, Feng Sun, Zhi Wen, Xinxin Lan, Yi Lei, Enming Cui, and Fan Lin
- 1222 **Multiparametric Magnetic Resonance Imaging-Based Peritumoral Radiomics for Preoperative Prediction of the Presence of Extracapsular Extension With Prostate Cancer**
Honglin Bai, Wei Xia, Xuefu Ji, Dong He, Xingyu Zhao, Jie Bao, Jian Zhou, Xuedong Wei, Yuhua Huang, Qiong Li, and Xin Gao
- Editorial** 1231 **Editorial for "Multiparametric MRI-Based Peritumoral Radiomics for Preoperative Prediction of the Presence of Extracapsular Extension With Prostate Cancer"**
Rakesh Shiradkar
- Cardiac** 1233 **Reference Values for Ventricular Volumes and Pulmonary Artery Dimensions in Pediatric Patients with Transposition of the Great Arteries After Arterial Switch Operation**
Inga Voges, Christien Boll, Amke Caliebe, Dominik Gabbert, Anselm Uebing, and Sylvia Krupickova
- 1246 **Visualization of Human Aortic Valve Dynamics Using Magnetic Resonance Imaging with Sub-Millisecond Temporal Resolution**
Zheng Zhong, Kaibao Sun, Guangyu Dan, Qingfei Luo, Afshin Farzaneh-Far, Meryem Muge Karaman, and Xiaohong Joe Zhou
- Editorial** 1255 **Editorial on "Visualization of Human Aortic Valve Dynamics Using MRI With Sub-Millisecond Temporal Resolution"**
Marshall S. Sussman
- 1257 **Impact of Wideband Late Gadolinium Enhancement Cardiac Magnetic Resonance Imaging on Device-Related Artifacts in Different Implantable Cardioverter-Defibrillator Types**
Amita Singh, Wensu Chen, Hena N. Patel, Nazia Alvi, Keigo Kawaji, Stephanie A. Besser, Roderick Tung, Jiangang Zou, Roberto M. Lang, Victor Mor-Avi, and Amit R. Patel
- Editorial** 1266 **Editorial for "Impact of Wideband Late Gadolinium Enhancement Cardiac Magnetic Resonance Imaging on Device-Related Artifacts in Different Implantable Cardioverter-Defibrillator Types"**
Li Huang and Sébastien Roujol
- 1268 **Diagnostic Accuracy of Spiral Whole-Heart Quantitative Adenosine Stress Cardiovascular Magnetic Resonance With Motion Compensated L1-SPIRIT**
Jonathan A. Pan, Austin A. Robinson, Yang Yang, Patricia Rodriguez Lozano, Stephen McHugh, Eric M. Holland, Craig H. Meyer, Angela M. Taylor, Christopher M. Kramer, and Michael Salerno

<i>Editorial</i>	1280	Editorial for “Diagnostic Accuracy of Spiral Whole-Heart Quantitative Adenosine Stress Cardiac Magnetic Resonance With Motion Compensated L1-SPIRIT” <i>Allison G. Hays</i>
Breast	1282	Feasibility of Velocity-Selective Arterial Spin Labeling in Breast Cancer Patients for Noncontrast-Enhanced Perfusion Imaging <i>Suzanne L. Franklin, Nora Voormolen, Isabell K. Bones, Tijmen Korteweg, Martin N. J. M. Wasser, Henrike G. Dankers, Daniele Cohen, Marijn van Stralen, Clemens Bos, and Matthias J. P. van Osch</i>
<i>Editorial</i>	1292	Editorial for “Feasibility of Velocity-Selective Arterial Spin Labelling in Breast Cancer Patients for Non-contrast Enhanced Perfusion Imaging” <i>Luísa Nogueira and Rita Gouveia Nunes</i>
Musculoskeletal	1294	Quantitative 3D Ultrashort Echo Time Magnetization Transfer Imaging for Evaluation of Knee Cartilage Degeneration In Vivo <i>Yan-Ping Xue, Ya-Jun Ma, Mei Wu, Saeed Jerban, Zhao Wei, Eric Y. Chang, and Jiang Du</i>
	1303	Prediction of High-Risk Cytogenetic Status in Multiple Myeloma Based on Magnetic Resonance Imaging: Utility of Radiomics and Comparison of Machine Learning Methods <i>Jianfang Liu, Piao Zeng, Wei Guo, Chunjie Wang, Yayuan Geng, Ning Lang, and Huishu Yuan</i>
<i>Editorial</i>	1312	Editorial for “Prediction of High-Risk Cytogenetics Status in Multiple Myeloma Based on Magnetic Resonance Imaging: Utility of Radiomics and Comparison of Machine Learning Methods” <i>Chintan Shah</i>
	1314	Radiomics Nomograms Based on Non-enhanced MRI and Clinical Risk Factors for the Differentiation of Chondrosarcoma from Enchondroma <i>Jielin Pan, Ke Zhang, Hongbo Le, Yunping Jiang, Wenjuan Li, Yayuan Geng, Shaolin Li, and Guobin Hong</i>
<i>Editorial</i>	1324	Editorial for “Radiomics Nomograms Based on Non-enhanced MRI and Clinical Risk Factors for the Differentiation of Chondrosarcoma from Enchondroma” <i>Boonsri Pattira</i>
Head and Neck	1326	Quantity and Morphology of Perivascular Spaces: Associations With Vascular Risk Factors and Cerebral Small Vessel Disease <i>Shuyue Wang, Peiyu Huang, Ruiting Zhang, Hui Hong, Yeerfan Jiaerken, Chunfeng Lian, Xinfeng Yu, Xiao Luo, Kaicheng Li, Qingze Zeng, Xiaopei Xu, Wenke Yu, Xiao Wu, and Minming Zhang</i>
	1337	Altered Functional Connectivity of Hippocampal Subfields in Poststroke Dementia <i>Zhiyong Zhao, Huaying Cai, Manli Huang, Weihao Zheng, Tingting Liu, Di Sun, Guocan Han, Linhui Ni, Yi Zhang, and Dan Wu</i>
Physics	1349	Data Quality Assessment for Super-Resolution Fetal Brain MR Imaging: A Retrospective 1.5 T Study <i>Nicholas Rubert, Dianna M.E. Bardo, Jennifer Vaughn, Patricia Cornejo, and Luis F. Goncalves</i>
<i>Editorial</i>	1361	Editorial for “Data Quality Assessment for Super-Resolution Fetal Brain MR Imaging: A Retrospective 1.5 T Study” <i>Quin Lu</i>
Commentary		<hr/>
	1363	Xenon MRI for Future Assessment of Lung Function and Treatment Response: A Commentary <i>Edwin J. R. van Beek and Jim M. Wild</i>
Letter to the Editor		<hr/>
	1365	Growing Evidence for the Use of an Abbreviated Magnetic Resonance Imaging Protocol in the Surveillance of Pancreatic Intraductal Papillary Mucinous Neoplasms <i>Francis T. Delaney and Carmel G. Cronin</i>