JMRI

Journal of Magnetic Resonance Imaging

Reviews		
	11	Automated Methods for Detecting and Quantitation of Enlarged Perivascular
		Jasmine Moses, Ben Sinclair, Meng Law, Terence J. O'Brien, and Lucy Vivash
	25	Low-field MRI: Clinical promise and challenges
		Thomas Campbell Arnold, Colbey W. Freeman, Brian Litt, and Joel M. Stein
	45	MRI-Based Artificial Intelligence in Rectal Cancer
		Chinting Wong, Yu Fu, Mingyang Li, Shengnan Mu, Xiaotong Chu, Jiahui Fu, Chenghe Lin, and Huimao Zhang
	57	Advancements in Gradient System Performance for Clinical and Research MRI Natalia Gudino and Sebastian Littin
Research Articles		
Pediatrics	71	Comparison of 2D and 4D Flow MRI in Neonates Without General Anesthesia
i ediatrics	71	Pia Siöberg, Erik Hedström, Katrin Fricke, Petter Frieberg, Constance G Weismann, Petru Liuba.
		Marcus Carlsson, and Johannes Töger
Editorial	83	Editorial for "Neonatal 4D Flow Magnetic Resonance Imaging Without General
		Anesthesia"
		Alex J. Barker, Richard M. Friesen, and Lorna P. Browne
Breast	85	Breast Magnetic Resonance Imaging Can Predict Ki67 Discordance Between Core
		Needle Biopsy and Surgical Samples
F 1	05	Wenjuan Wei, Yinan Ji, Zhi Tang, Xiangyang Huang, Wei Zhang, and Ningbin Luo
Editorial	95	Editorial for "Breast Magnetic Resonance Imaging Can Detect Rio/ Discordance
		Between Core Needle Blopsy and Surgical Samples"
	97	Four-Dimensional Machine Learning Radiomics for the Pretreatment Assessment
	,,	of Breast Cancer Pathologic Complete Response to Neoadiuvant Chemotherapy
		in Dynamic Contrast-Enhanced MRI
		Marco Caballo. Wendelien B. G. Sanderink, Luvi Han, Yuan Gao, Alexandra Athanasiou.
		and Ritse M. Mann
Editorial	111	Editorial for "4D Machine Learning Radiomics for the Prediction of Breast Cancer
		Pathologic Complete Response to Neoadjuvant Chemotherapy in Dynamic
		Contrast-Enhanced MRI"
		Noam Nissan and Ethan Bauer
Vascular	113	Inflow Angle Impacts Morphology, Hemodynamics, and Inflammation of Side-wall
		Intracranial Aneurysms
		Mingzhu Fu, Fei Peng, Hao Niu, Xiaoxin He, Shuo Chen, Miaoqi Zhang, Jiaxiang Xia, Yishi Wang, Boya Xu, Aibua Liu, and Rui Li
Editorial	124	Editorial for "Inflow Angle Impacts Morphology Hemodynamics and Inflammation
Editorial	124	of Side-Wall Intracranial Aneurysms"
		Jeremy D. Collins
	126	Global Aortic Pulse Wave Velocity is Unchanged in Bicuspid Aortopathy With
		Normal Valve Function but Elevated in Patients With Aortic Valve Stenosis: Insights
		From a 4D Flow MRI Study of 597 Subjects
		Ethan M.I. Johnson, Michael B. Scott, Kelly Jarvis, Bradley Allen, James Carr,
		S. Christopher Malaisrie, Patrick McCarthy, Christopher Mehta, Paul W.M. Fedak, Alex J. Barker,
- 1	407	and Michael Markl
Editorial	137	Editorial for "Global Aortic Pulse Wave Velocity in Bicuspid Aortopathy Similar to
		Controls but Elevated With Aortic Valve Stenosis"
Musculoskolatal	120	MP Neurography of Lumbocastal Playus: Instrumental Value Over VP, CT, and MP
musculoskeletal	137	of L Sping With Improved Outcomes in Patients With Padieulenathy and Esiled
		Back Surgery Syndrome
		Avneesh Chhabra. Pradvotha Kanchustambham. Bavan Mogharrahi. Raghu Ratakonda. Kevin Gill
		and Yin Xi

Editorial	151	Editorial for "Magnetic Resonance Neurography of Lumbosacral Plexus-Incremental Value Over Conventional Imaging Modalities and Improved Outcomes in Patients With Radiculopathy and Failed Back Surgery Syndrome" Sikandar Shaikh
	153	Impact of Sustained Synovitis on Knee Joint Structural Degeneration: 4-Year MRI
		Data from the Osteoarthritis Initiative
		Sara Ramezanpour, Thanat Kanthawang, John Lynch, Charles E. McCulloch, Michael C. Nevitt, Thomas M. Link, and Gabby B. Joseph
Editorial	165	Editorial for "Impact of Sustained Synovitis on Knee Joint Structural Degeneration:
		4-Year MRI Data from the Osteoarthritis Initiative"
Cardiac	167	Wei Chen and Xiaotei Hu Quantification of Early Diffuse Myocardial Eibrosis Through 7.0.1 Cardiac Magnetic
Cardiac	107	Resonance T1 Mapping in a Type 1 Diabetic Mellitus Mouse Model Hongkai Zhang, Chunyan Shi, Lin Yang, Nan Zhang, Guoqi Li, Zhen Zhou, Yifeng Gao, Dongting Liu, Lei Xu, and Zhanming Fan
	178	Myocardial First-Pass Perfusion With Increased Anatomic Coverage at 3 T Using
		Autocalibrated Multiband Imaging Lixian Zou, Yuan Zheng, Jialing Chen, Yu Ding, Hui Liu, Yubao Liu, Jian Xu, Hairong Zheng, and Yin Liu
Editorial	189	Editorial for "First-Pass Myocardial Perfusion With Increased Anatomic Coverage
		at 3T Using Autocalibrated Multiband Imaging"
		Hideo Arai, Masateru Kawakubo, and Toshiaki Kadokami
	191	Automatic Time-Resolved Cardiovascular Segmentation of 4D Flow MRI Using
		Deep Learning Mariana Bustamanta, Eddarica Viala, Jan Enguall, Carl Johan Carlhäll, and Tina Ebbarg
Editorial	204	Editorial for "Automatic Time-Resolved Cardiovascular Segmentation of 4D Flow
		MRI Using Deep Learning"
		Javier Montalt-Tordera, Jennifer A. Steeden, and Vivek Muthurangu
Neuro	206	Reproducibility of 3 T APT-CEST in Healthy Volunteers and Patients With Brain
		Glioma Ivar J.H.G. Wamelink, Joost P.A. Kuijer, Beatriz E. Padrela, Yi Zhang, Frederik Barkhof, Henk J.M.M. Mutsaerts, Jan Petr, Elsmarieke van de Giessen, and Vera C. Keil
	216	Implication of Cerebral Small-Vessel Disease on Perihematomal Edema Progress
		in Patients With Hypertensive Intracerebral Hemorrhage
Editorial	225	Wenliang Guo, Lanxi Meng, Aiyu Lin, Yi Lin, Ying Fu, WanJin Chen, and Shaowu Li
Editorial	225	Editorial for "Significance of Cerebral Small-Vessel Disease on Perinematomal Edema Progress in Patients With Hypertensive Intracerebral Hemorrhage"
	227	Radiomic-Based MRI for Classification of Solitary Brain Metastases Subtypes
		From Primary Lymphoma of the Central Nervous System
		Lin-mei Zhao, Rong Hu, Fang-Fang Xie, Daniel Clay Kargilis, Maliha Imami, Shuai Yang,
Editorial	224	Jiu-Qing Guo, Xiao Jiao, Rui-ting Chen, Liao Wei-Hua, and Lang Li Editorial for "Podiamic Posed MPI for Clossification of Solitons Prain Matastasia
Editorial	230	Subtypes From Primary Lymphoma of the Central Nervous System"
		Min-Ying Lydia Su
	238	White Matter Tract Injury by MRI in CADASIL Patients is Associated With Iron
		Accumulation
		Hui Hong, Shuyue Wang, Xinfeng Yu, Yeerfan Jiaerken, Xiaojun Guan, Qingze Zeng, Xinzhen Yin, Ruiting Zhang, Yao Zhang, Zili Zhu, Peiyu Huang, and Minming Zhang.
Editorial	246	Editorial for "White Matter Injury in CADASIL Patients is Associated With Iron
		Accumulation"
Technical	210	Ult Jensen-Kondering Directionally Sensitive Fractal Padiamics Compatible With Irregularly Shared
recinical	240	Magnetic Resonance Tumor Regions of Interest: Association With Osteosarcoma
		Chemoresistance
		Goran J. Djuričić, Helmut Ahammer, Stanislav Rajković, Jelena Djokić Kovač, Zorica Milošević, Jelena P. Sopta, and Marko Radulovic

Chest	259	Computed DWI MRI Results in Superior Capability for N-Stage Assessment of Non-Small Cell Lung Cancer Than That of Actual DWI, STIR Imaging, and FDG-PET/CT Yoshiharu Ohno, Masao Yui, Daisuke Takenaka, Takeshi Yoshikawa, Hisanobu Koyama, Yoshimori Kassai, Kaori Yamamoto, Yuka Oshima, Nayu Hamabuchi, Satomu Hanamatsu, Yuki Obama, Takahiro Ueda, Hirotaka Ikeda, Hidekazu Hattori, Kazuhiro Murayama,
Editorial	273	and Hiroshi Toyama Editorial for "Computed DWI Results in Superior Capability for N-Stage Assessment of Non-Small Cell Lung Cancer than that of Actual DWI, STIR Imaging and FDG-PET/CT"
Abdomen	275	Apparent Diffusion Coefficient MRI Shows Association With Early Progression of Unresectable Intrahepatic Cholangiocarcinoma With Combined Targeted-Immunotherapy Ruofan Sheng, Wei Sun, Xiaoyong Huang, Kaipu Jin, Shanshan Gao, Mengsu Zeng, Dong Wu, and Guoming Shi
	285	Quantitative Magnetization EXchange MRI Measurement of Liver Fibrosis Model in Rodents
	296	Automated Measurement of Pancreatic Fat Deposition on Dixon MRI Using nnU-Net Dingyi Lin, Ziyan Wang, Hong Li, Hongxi Zhang, Liping Deng, Hong Ren, Shuiya Sun,
	308	Comparing Survival Outcomes of Patients With LI-RADS-M Hepatocellular Carcinomas and Intrahepatic Cholangiocarcinomas Andrea S. Kierans, Kyle J. Lafata, Daniel R. Ludwig, Lauren M. B. Burke, Victoria Chernyak, Kathryn J. Fowler, Tyler J. Fraum, Katrina A. McGinty, Matthew D. F. McInnes, Mishal Mendiratta-Lala, Guilherme Moura Cunha, Brian C. Allen, Elizabeth M. Hecht, Tracy A. Jaffe, Kevin R. Kalisz, Damithri S. Ranathunga, Benjamin Wildman-Tobriner, Diana M. Cardona, Anum Aslam, Sonia Gaur, and Mustafa R. Bashir
Editorial	318	Editorial for "Comparing Survival Outcomes of Patients With LI-RADS-M Hepatocellular Carcinomas and Intrahepatic Cholangiocarcinomas" Jeong Hee Yoon
Letter to the Editor		
Cardiac	320	Time-Synchronization of Interventional Cardiovascular Magnetic Resonance Data Using a Biomechanical Model for Pressure-Volume Loop Analysis <i>Maria Gusseva, Daniel A. Castellanos, Joshua S. Greer, Mohamed Abdelghafar Hussein,</i> <i>Keren Hasbani, Gerald Greil, Surendranath R. Veeram Reddy, Tarique Hussain,</i> <i>Dominique Chapelle, and Radomír Chabiniok</i>
	324	Francis William Smith, MD, FRCR, FRCS, FRCP, FFSEM (UK) (1943–2022)
		Gordon D. Walter, Fiona J. Gilbert, Alison Murray, and Beverly MacLennan