

Review

- 1531 **An Algorithmic Approach to MR Imaging of Hypomyelinating Leukodystrophies**
Smily Sharma, Soumya Sundaram, Chandrasekharan Kesavadas, and Bejoy Thomas
- 1552 **Qualitative and Quantitative MR Imaging of the Cartilaginous Endplate: A Review**
Zhao Wei, Jiyo S. Athertya, Christine B. Chung, Graeme M. Bydder, Eric Y. Chang, Jiang Du, Yang Wenhui, and Yajun Ma
- 1572 **Color Maps: Facilitating the Clinical Impact of Quantitative MRI**
Nico Sollmann, Miha Fuderer, Fabio Crameri, Sebastian Weingärtner, Bettina Baeßler, Vikas Gulani, Kathryn E. Keenan, Stefano Mandija, Xavier Golay, and Nandita M. deSouza
- 1580 **ISMRM Clinical Focus Meeting 2023: "Imaging the Fire in the Brain"**
Nivedita Agarwal, Audrey Fan, Xiaoqi Huang, Seena Dehkharghani, and Anja van der Kolk
- 1597 **Neuromodulation in Small Animal fMRI**
Li-Ming Hsu and Yen-Yu Ian Shih
- 1618 **Prerequisites for Clinical Implementation of Whole-Heart 4D-Flow MRI: A Delphi Analysis**
Joost van Schuppen, Annelies E. van der Hulst, J. Michiel den Harder, Lukas M Gottwald, Raschel D. van Luijk, Josien C. van den Noort, Jules L. Nelissen, Casper F. Coerkamp, S. Matthijs Boekholdt, Paul F.C. Groot, Aart Nederveen, Pim van Ooij, and R. Nils Planken, Delphi Panel Members
- 1629 **Editorial for "Prerequisites for Clinical Implementation of Whole-Heart 4D-Flow MRI: A Delphi Analysis"**
Manuel A. Morales and Reza Nezafat

Editorial

Commentary

- 1631 **MR Radiographer/Technologist Practice Issues Surrounding MR Safety**
Anne Dorte Blankholm, Vera L. Kimbrell, Titti Owman, Sonja Boiteaux, and Maureen Hood
- 1633 **Transitioning From the 5 Gauss to the 9 Gauss Threshold to Prevent Unintended Programming Changes for Certain Active Implants**
Frank G. Shellock

Research Article

Cardiac

- 1635 **Deep-Learning-Based Disease Classification in Patients Undergoing Cine Cardiac MRI**
Athira J. Jacob, Teodora Chitiboi, U. Joseph Schoepf, Puneet Sharma, Jonathan Aldinger, Charles Baker, Carla Lautenschlager, Tilman Emrich, and Akos Varga-Szemes

Editorial

- 1648 **Editorial for "Deep-Learning-Based Disease Classification in Patients Undergoing Cine Cardiac MRI"**
Saber Mohammadi and Pegah Khosravi

- 1650 **Early Detection of Myocardial Involvement in Thalassemia Intermedia Patients: Multiparametric Mapping by Magnetic Resonance Imaging**
Antonella Meloni, Laura Pistoia, Davide Garamella, Alessandro Parlato, Vincenzo Positano, Paolo Ricchi, Tommaso Casini, Emanuela De Marco, Elisabetta Corigliano, Zelia Borsellino, Domenico Visceglie, Raffaele De Caterina, Alessia Pepe, and Filippo Cademartiri

Editorial

- 1662 **Editorial for "Early Detection of Myocardial Involvement in Thalassemia Intermedia Patients: Multiparametric Mapping by Magnetic Resonance Imaging"**
Yun Zhao and Lian-Ming Wu

Pediatrics

- 1664 **Same-Day Repeatability and 28-Day Reproducibility of Xenon MRI Ventilation in Children With Cystic Fibrosis in a Multi-Site Trial**
Laura L. Walkup, David J. Roach, Joseph W. Plummer, Matthew M. Willmering, Brandon Zanette, Giles Santyr, Sean B. Fain, Michael J. Rock, Jaime Mata, Deborah Froh, Sanja Stanojevic, Zackary I. Cleveland, Felix Ratjen, and Jason C. Woods

Editorial

- 1675 **Editorial for "Same-Day Repeatability and 28-Day Reproducibility of Xenon MRI Ventilation in Children With Cystic Fibrosis in a Multi-Site Trial"**
Furkan Ufuk

Musculoskeletal

- 1677 **Delayed Ferumoxtran-10-Enhanced Magnetic Resonance Neurography of the Lumbosacral Plexus: Impact on Vascular Suppression and Image Quality**
Malwina Kaniewska, Eva Deininger-Czermak, Falko Ensle, Olivio F. Donati, and Roman Guggenberger
- 1681 **Reliability of In Vivo Creatine-Weighted Chemical Exchange Saturation Transfer (CrCEST) MRI in Calf Skeletal Muscle of Healthy Volunteers at 3 T**
Kasturee Chakraborty, Ritambhar Burman, Sabah Nisar, Saorla Miller, Zachary Loschinsky, Shengjie Wu, Yimei Li, Asim K. Bag, Ayaz Khan, Chelsea Goodenough, Neil Wilson, Mohammad Haris, Shana E. McCormack, Ravinder Reddy, Kirsten Ness, Richard Finkel, and Puneet Bagga

Editorial

- 1693 **Editorial for "Reliability of In Vivo Creatine-Weighted Chemical Exchange Saturation Transfer (CrCEST) MRI in Calf Skeletal Muscle of Healthy Volunteers at 3 T"**
Grace McIlvain

Case Report

- 1695 **Longitudinal Quantitative MRI Changes of Muscle Denervation in Parsonage-Turner Syndrome**
Gracyn Campbell, Ek T. Tan, Yenpo Lin, Michelle Akerman, Carlo J. Milani, Joseph H. Feinberg, and Darryl B. Sneag

Research Article

Head and Neck

- 1699 **Assessing Visual Pathway White Matter Degeneration in Primary Open-Angle Glaucoma Using Multiple MRI Morphology and Diffusion Metrics**
Linying Guo, Yin Wang, Fengjuan Gao, Fei Duan, Yuzhe Wang, Jingfeng Cheng, Dandan Shen, Jianfeng Luo, Lingjie Wu, Rifeng Jiang, Xinghuai Sun, and Zuohua Tang
- 1712 **Diagnosis of Major Depressive Disorder Based on Individualized Brain Functional and Structural Connectivity**
Yuting Guo, Tongpeng Chu, Qinghe Li, Qun Gai, Heng Ma, Yinghong Shi, Kaili Che, Fanghui Dong, Feng Zhao, Danni Chen, Wanying Jing, Xiaojun Shen, Gangqiang Hou, Xicheng Song, Ning Mao, and Peiyuan Wang

Editorial

- 1726 **Editorial for "Diagnosis of Major Depressive Disorder Based on Individualized Brain Functional and Structural Connectivity"**
Ismail Koubiyr and Thomas Tourdias

Neuro

- 1728 **Utilizing Radiomics of Peri-Lesional Edema in T2-FLAIR Subtraction Digital Images to Distinguish High-Grade Glial Tumors From Brain Metastasis**
Emin Demirel and Okan Dilek
- 1738 **Associations Between Brain Metabolites Measured With MR Spectroscopy and Head Impacts in High School American Football Athletes**
Zexuan Liu, Jonathan A. Dudley, Jed A. Diekfuss, Nadine Ahmed, Alex D. Edmondson, Kim M. Cecil, Weihong Yuan, Taylor M. Zuleger, Alexis B. Slutsky-Ganesh, Kim D. Barber Foss, Gregory D. Myer, and Candace C. Fleischer
- 1751 **New Subependymal Enhancement After Radiation Therapy in High-Grade Glioma: Utilizing Morphological Features and DSC Perfusion MRI to Differentiate Progression and Post-Radiation Changes**
Kyu Sung Choi, Inpyeong Hwang, Chul Kee Park, Sung Hye Park, and Seung Hong Choi
- 1761 **Glymphatic System in Preterm Neonates: Developmental Insights Following Birth Asphyxia**
Shiwei Lin, Xiaoshan Lin, Qunjun Liang, Shengli Chen, Yanyu Zhang, Ying Li, Tianfa Dong, and Yingwei Qiu
- 1770 **Abnormal Structural-Functional Coupling and MRI Alterations of Brain Network Topology in Progressive Supranuclear Palsy**
Junyu Qu, Rui Zhu, Yongsheng Wu, Guihua Xu, and Dawei Wang
- 1782 **Spontaneous Brain Activity Abnormalities in Patients With Temporal Lobe Epilepsy: A Meta-Analysis of 1474 Patients**
Shu Xiao, Zibin Yang, Zitao Lin, Liqing Chen, Weiming Liao, Jurong Wang, Cuihua Gao, Jianjun Lu, Yang Song, Sulian Su, and Guihua Jiang

- Editorial** 1795 **Editorial for “Spontaneous Brain Activity Abnormalities in Patients With Temporal Lobe Epilepsy: A Meta-Analysis of 1474 Patients”**
Elza Azri Othman
- 1797 **Simultaneous Increase of Mean Susceptibility and Mean Kurtosis in the Substantia Nigra as an MRI Neuroimaging Biomarker for Early-Stage Parkinson’s Disease: A Systematic Review and Meta-Analysis**
Sana Mohammadi, Sadegh Ghaderi, Hossein Mohammadi, and Farzad Fatehi
- Editorial** 1810 **Editorial for “Simultaneous Increase of Mean Susceptibility and Mean Kurtosis in the Substantia Nigra as an MRI Neuroimaging Biomarker for Early-Stage Parkinson’s Disease: A Systematic Review and Meta-Analysis”**
Rodolfo G. Gatto and Hossam Youssef
- 1812 **Longitudinal Multiparametric Quantitative MRI Evaluation of Acute and Chronic Multiple Sclerosis Paramagnetic Rim Lesions**
Ahmed M. Elkady, Colm Elliott, Dumitru Fetco, David Araujo, Zahra Karimaghloo, Marco Ganzetti, David Clayton, Licinio Craveiro, Agne Kazlauskaitė, Sridar Narayanan, Douglas L. Arnold, and David A. Rudko
- Editorial** 1829 **Editorial for “Longitudinal Multi-parametric Quantitative MRI Evaluation of Acute and Chronic Multiple Sclerosis Paramagnetic Rim Lesions”**
Yue Zhang
- 1831 **Disturbed Dynamic Brain Activity and Neurovascular Coupling in End-Stage Renal Disease Assessed With MRI**
Yuhan Jiang, Wei Du, Yuan Li, Bingbing Gao, Na Liu, Qingwei Song, Nan Wang, Jianlin Wu, and Yanwei Miao
- Editorial** 1845 **Editorial for “Disturbed Dynamic Brain Activity and Neurovascular Coupling in End-Stage Renal Disease Assessed With MRI”**
Dinil Sasi Sankaralayam
- 1847 **Comparison of Echo Planar and Turbo Spin Echo Diffusion-Weighted Imaging in Intraoperative MRI**
James C. Thorpe, Stefanie C. Thust, Claire H. M. Gillon, Selene Rowe, Charlotte E. Swain, Donald C. MacArthur, Simon P. Howarth, Shivaram Avula, Paul S. Morgan, and Rob A. Dineen
- Editorial** 1858 **Editorial for “Comparison of Echo Planar and Turbo Spin Echo Diffusion-Weighted Imaging in Intraoperative MRI”**
Daniel Lewis
- Thoracic** 1860 **Quantifying Spatial Distribution of Ventilation Defects in Multiple Pulmonary Diseases With Hyperpolarized ¹²⁹Xenon MRI**
Abdullah S. Bdaiwi, Matthew M. Willmering, Jason C. Woods, Laura L. Walkup, and Zackary I. Cleveland
- Editorial** 1874 **Editorial for “Quantifying Spatial Distribution of Ventilation Defects in Multiple Pulmonary Diseases With Hyperpolarized ¹²⁹Xenon MRI”**
Marion Curdy, Elisabeth Kieninger, and Philipp Latzin
- Breast** 1876 **Discrimination Between Benign and Malignant Lesions With Restriction Spectrum Imaging MRI in an Enriched Breast Cancer Screening Cohort**
Stephane Loubrie, Jingjing Zou, Ana E. Rodriguez-Soto, Jihe Lim, Maren M.S. Andreassen, Yuwei Cheng, Summer J. Batasin, Sheida Ebrahimi, Lauren K. Fang, Christopher C. Conlin, Tyler M. Seibert, Michael E. Hahn, Vandana Dialani, Catherine J. Wei, Zahra Karimi, Joshua Kuperman, Anders M. Dale, Haydee Ojeda-Fournier, Etta Pisano, and Rebecca Rakow-Penner
- Editorial** 1888 **Editorial for “Discrimination Between Benign and Malignant Lesions With Restriction Spectrum Imaging MRI in an Enriched Breast Cancer Screening Cohort”**
Almir G.V. Bitencourt and Sunitha B. Thakur
- Technical** 1890 **Biomechanical Assessment of Liver Integrity: Prospective Evaluation of Mechanical Versus Acoustic MR Elastography**
Vitali Koch, Jennifer Gotta, Victoria Chernyak, Duygu Cengiz, Katerina Torgashov, Katrin Eichler, Valérie Vilgrain, Simon S. Martin, Nicole S. Ziegengeist, Paul Konrad, Christian Booz, Ibrahim Yel, Tommaso D’Angelo, Scherwin Mahmoudi, Jan-Erik Scholtz, Simon Bernatz, Leona S. Alizadeh, Marina Cimprich, Levent A. Solim, Axel Thalhammer, Tatjana Gruber-Rouh, Renate M. Hammerstingl, Stefan Zeuzem, Fabian Finkelmeier, Anita Pathil-Warth, Melis Onay, Maximilian N. Kinzler, Omar Darwish, Giacomo Annio, Stuart A. Taylor, Peter Wild, Iulia Dahmer, Eva Herrmann, Haidara Almansour, Thomas J. Vogl, Leon D. Gruenewald, and Ralph Sinkus

- 1905 **Z-Spectral MRI Quantifies the Mass and Metabolic Activity of Adipose Tissues With Fat-Water-Fraction and Amide-Proton-Transfer Contrasts**
Zimeng Cai, Qiaoling Zhong, Daming Zhang, Yanqiu Feng, Qian Wang, Yuanbo Yang, Yongzhou Xu, Changhong Liang, Zaiyi Liu, and Kejia Cai
- 1914 **Repeatability, Reproducibility, and Observer Variability of Cortical T1 Mapping for Renal Tissue Characterization**
Magdalena Nowak, Markus Henningsson, Tom Davis, Najib Chowdhury, Andrea Dennis, Carolina Fernandes, Helena Thomaides Brears, and Matthew D. Robson
- Editorial**
- 1923 **Editorial for "Repeatability, Reproducibility and Observer Variability of Cortical T1 Mapping for Renal Tissue Characterization"**
Ravikanth Balaji, Reem Al Mazroui, and Rashid Al Sukaiti
- Abdomen**
- 1925 **Simultaneous Multiparameter Mapping of the Liver in a Single Breath-Hold or Respiratory-Triggered Acquisition Using Multi-Inversion Spin and Gradient Echo MRI**
Mary Kate Manhard, Anandh Kilpattu Ramaniharan, Jean A. Tkach, Andrew T. Trout, Jonathan R. Dillman, and Amol S. Pednekar
- 1937 **Arterial Spin Labeling (ASL) MRI in Evaluating Pancreatic Blood Perfusion in Subjects With Different Glucose Tolerances**
Yuling Zhang, Zhengzheng Tao, and Qian Ji
- 1947 **Quantitative MRI for Monitoring Metabolic Dysfunction-Associated Steatotic Liver Disease: A Test-Retest Repeatability Study**
Cayden Beyer, Anneli Andersson, Elizabeth Shumbayawonda, Naim Alkhouri, Ami Banerjee, Prashant Pandya, Mukesh Harisinghani, Kathleen Corey, Andrea Dennis, and Michele Pansini
- 1956 **Quantitative Analysis of Small Intestinal Motility in 3D Cine-MRI Using Centerline-Aware Motion Estimation**
Louis D. van Harten, Catharina S. de Jonge, Femke Struik, Jaap Stoker, and Ivana Išgum
- Editorial**
- 1967 **Editorial for "Quantitative Analysis of Small Intestinal Motility in 3D Cine-MRI Using Centerline-Aware Motion Estimation"**
Aysegul Sagir Kahraman and Bayram Kahraman
- 1969 **Initial Experience of Metabolic Imaging With Hyperpolarized [1-¹³C]pyruvate MRI in Kidney Transplant Patients**
Xiaoxi Liu, Ying-Chieh Lai, Di Cui, Shiang-Cheng Kung, Meyeon Park, Zoltan Laszik, Peder E. Z. Larson, and Zhen J. Wang
- Editorial**
- 1979 **Editorial for "Initial Experience of Metabolic Imaging With Hyperpolarized [1-¹³C]pyruvate MRI in Kidney Transplant Patients"**
Malene Astrup, Uffe Kjærgaard, and Christoffer Laustsen
- 1981 **Clear Cell Renal Cell Carcinoma: Characterizing the Phenotype of Von Hippel-Lindau Mutation Using MRI**
Xu Bai, Cheng Peng, Baichuan Liu, Shaopeng Zhou, Huiping Guo, Yuwei Hao, Haili Liu, Yijian Chen, Xin Liu, Xueyi Ning, Yuanhao Ma, Jian Zhao, Lin Li, Huiyi Ye, Xin Ma, and Haiyi Wang
- Editorial**
- 1995 **Editorial for "Clear Cell Renal Cell Carcinoma: Characterizing the Phenotype of Von Hippel-Lindau Mutation Using MRI"**
Taek Min Kim
- 1996 **¹⁹Fluorine-MRI Based Longitudinal Immuno-Microenvironment-Monitoring for Pancreatic Cancer**
Wilfried Reichardt, Tabea Gewalt, Philipp Hafner, Steffen J. Keller, Xun Chen, Asma Alrawashdeh, Yayu Li, Solène Besson, Stefan Fichtner-Feigl, Dominik von Elverfeldt, Huda Jumaa, and Dietrich A. Russ
- Editorial**
- 2009 **Editorial for "¹⁹Fluorine-MRI Based Longitudinal Immuno-Microenvironment-Monitoring for Pancreatic Cancer"**
Emily Hoffmann and Cornelius Faber
- Vascular**
- 2011 **Evaluation of Middle Cerebral Artery Culprit Plaque Inflammation in Ischemic Stroke Using CAIPIRINHA-Dixon-TWIST Dynamic Contrast-Enhanced Magnetic Resonance Imaging**
Junxia Niu, Yuncai Ran, Rui Chen, Yan Zhang, Yong Zhang, Qi Yang, and Jingliang Cheng

Letter to the Editor

- 2021 Three-Dimensional MR Elastography of Microvascular Invasion**
Armando Manduca
- 2022 Influence of Morphological Changes on Dural Venous Sinuses Hemodynamics**
Juan J. Cardona, Aaron S. Dumont, Joe Iwanaga, and R. Shane Tubbs
- 2024 Reply to Letter to Editor Regarding "Influence of Morphological Changes on Dural Venous Sinuses Hemodynamics"**
Chihang Dai, Zhenchang Wang, and Pengfei Zhao