

## CME Article

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- 1349 MRI in Cardio-oncology: A Review of Cardiac Complications in Oncologic Care**  
*Daniel Jeong, Gregory Gladish, Teodora Chitiboi, Michael G. Fradley, Kenneth L. Gage, and Mark L. Schiebler*

## Review Articles

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- 1367 MRI of Acute Appendicitis**  
*Benjamin M. Mervak, Sarah B. Wilson, Brian D. Handly, Ersan Altun, and Lauren M. Burke*
- 1377 Translating Preclinical MRI Methods to Clinical Oncology**  
*David A. Hormuth II, Anna G. Sorace, John Virostko, Richard G. Abramson, Zaver M. Bhujwalla, Pedro Enriquez-Navas, Robert Gillies, John D. Hazle, Ralph P. Mason, C. Chad Quarles, Jared A. Weis, Jennifer G. Whisenant, Junzhong Xu, and Thomas E. Yankeelov*

## Original Research

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### Neuro

- 1393 Age-Related Deep White Matter Changes in Myelin and Water Content: A T<sub>2</sub> Relaxometry Study**  
*Efrosini Papadaki, Eleftherios Kavroulakis, Georgios Kalaitzakis, Dimitra Karageorgou, Dimitrios Makrakis, Thomas G. Maris, and Panagiotis G. Simos*
- 1405 Altered Cortical Morphology of Visual Cortex in Adults With Monocular Amblyopia**  
*Lu Lu, Qian Li, Lianqing Zhang, Shi Tang, Xubo Yang, Longqian Liu, John A. Sweeney, Qiyong Gong, and Xiaoqi Huang*
- 1413 Data-Driven Synthetic MRI FLAIR Artifact Correction via Deep Neural Network**  
*Kanghyun Ryu, Yoonho Nam, Sung-Min Gho, Jinhee Jang, Ho-Joon Lee, Jihoon Cha, Hye Jin Baek, Jiyong Park, and Dong-Hyun Kim*
- 1424 Quantitative Multivoxel Proton MR Spectroscopy for the Identification of White Matter Abnormalities in Mild Traumatic Brain Injury: Comparison Between Regional and Global Analysis**  
*Matthew S. Davitz, Oded Gonen, Assaf Tal, James S. Babb, Yvonne W. Lui, and Ivan I. Kirov*
- 1433 Total Cerebrovascular Blood Flow and Whole Brain Perfusion in Children Sedated Using Propofol With or Without Ketamine at Induction: An Investigation With 2D-Cine PC and ASL**  
*Malek I. Makki, Ruth L. O'Gorman, Philip Buhler, Olivier Baledent, Christian J. Kellenberger, Carola Sabandal, Markus Weiss, Ianina Scheer, and Achim Schmitz*
- 1441 Cerebral Blood Flow Territory Instability in Patients With Atherosclerotic Intracranial Stenosis**  
*Daniel F. Arteaga, Megan K. Strother, Carlos C. Faraco, L. Taylor Davis, Allison O. Scott, and Manus J. Donahue*
- 1452 Vessel Wall and Lumen Characteristics with Age in Healthy Participants using 3T Intracranial Vessel Wall Magnetic Resonance Imaging**  
*Petrice M. Cogswell, Sarah K. Lants, L. Taylor Davis, and Manus J. Donahue*

### Breast

- 1461 Monoexponential, Biexponential, and Stretched-Exponential Models Using Diffusion-Weighted Imaging: A Quantitative Differentiation of Breast Lesions at 3.0T**  
*Ya-Nan Jin, Yan Zhang, Jing-Liang Cheng, Dan-Dan Zheng, and Ying Hu*
- 1468 Characterization of Sub-1 cm Breast Lesions Using Radiomics Analysis**  
*Peter Gibbs, Natsuko Onishi, Meredith Sadinski, Katherine M. Gallagher, Mary Hughes, Danny F. Martinez, Elizabeth A. Morris, and Elizabeth J. Sutton*

- 1478 Accuracy of Breast Cancer Lesion Classification Using Intravoxel Incoherent Motion Diffusion-Weighted Imaging is Improved by the Inclusion of Global or Local Prior Knowledge With Bayesian Methods**  
*Igor Vidić, Neil P. Jerome, Tone F. Bathen, Pål E. Goa, and Peter T. While*
- Whole Body**
- 1489 Whole-Body MRI for Preventive Health Screening: A Systematic Review of the Literature**  
*Robert M. Kwee and Thomas C. Kwee*
- Head and Neck**
- 1504 Cerebral Circulation Time Derived From fMRI Signals in Large Blood Vessels**  
*Jinxia (Fiona) Yao, James H. Wang, Ho-Ching (Shawn) Yang, Zhenhu Liang, Aaron A. Cohen-Gadol, Vitaliy L. Rayz, and Yunjie Tong*
- 1514 Quality-Based Pharmacokinetic Model Selection on DCE-MRI for Characterizing Orbital Lesions**  
*Augustin Lecler, Daniel Balvay, Charles-André Cuenod, Louise Marais, Mathieu Zmuda, Jean-Claude Sadik, Olivier Galatoire, Edgar Farah, Jonathan El Methni, Kevin Zuber, Olivier Bergès, Julien Savatovsky, and Laure Fournier*
- Interventional**
- 1526 Prolonged Heating in Nontargeted Tissue During MR-guided Focused Ultrasound of Bone Tumors**  
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- 1534 Uniform Combined Reconstruction of Multichannel 7T Knee MRI Receive Coil Data Without the Use of a Reference Scan**  
*Venkata Veerendranadh Chebrolu, Peter D. Kollasch, Vibhas Deshpande, John Grinstead, Benjamin M. Howe, Matthew A. Frick, Andrew J. Fagan, Thomas Benner, Robin M. Heidemann, Joel P. Felmlee, and Kimberly K. Amrami*
- 1545 Cruciate Ligament Injuries of the Knee: A Meta-Analysis of the Diagnostic Performance of 3D MRI**  
*Delaram Shakoor, Ali Guermazi, Richard Kijowski, Jan Fritz, Frank W. Roemer, Sahar Jalali-Farahani, and Shadpour Demehri*
- 1561 Quantification of Patellofemoral Cartilage Deformation and Contact Area Changes in Response to Static Loading via High-Resolution MRI With Prospective Motion Correction**  
*Thomas Lange, Elham Taghizadeh, Benjamin R. Knowles, Norbert P. Südkamp, Maxim Zaitsev, Hans Meine, and Kaywan Izadpanah*
- Cardiac**
- 1571 High Frame Rate Cardiac Cine MRI for the Evaluation of Diastolic Function and Its Direct Correlation With Echocardiography**  
*Jiming Zhang, Jie Chen, Benjamin Cheong, Amol Pednekar, and Raja Muthupillai*
- Technical**
- 1583 Zero TE MRI Applications to Transcranial MR-Guided Focused Ultrasound: Patient Screening and Treatment Efficiency Estimation**  
*Jaime Caballero-Insaurriaga, Rafael Rodríguez-Rojas, Raúl Martínez-Fernández, Marta Del-Alamo, Laura Díaz-Jiménez, María Ávila, María Martínez-Rodrigo, Pablo García-Polo, and José A. Pineda-Pardo*
- 1593 Effects of Signal Averaging, Gradient Encoding Scheme, and Spatial Resolution on Diffusion Kurtosis Imaging: An Empirical Study Using 7T MRI**  
*Chia-Wen Chiang, Shih-Yen Lin, Kuan-Hung Cho, Kuo-Jen Wu, Yun Wang, and Li-Wei Kuo*
- Pelvis**
- 1604 Head-to-Head Comparison Between Multiparametric MRI, the Partin Tables, Memorial Sloan Kettering Cancer Center Nomogram, and CAPRA Score in Predicting Extraprostatic Cancer in Patients Undergoing Radical Prostatectomy**  
*Elisa Zanelli, Gianluca Giannarini, Lorenzo Cereser, Chiara Zuiani, Giuseppe Como, Stefano Pizzolitto, Alessandro Crestani, Claudio Valotto, Vincenzo Ficarra, and Rossano Girometti*

**1614 Exploratory Study of Geometric Distortion Correction of Prostate Diffusion-Weighted Imaging Using  $B_0$  Map Acquisition**  
*Angela Tong, Gregory Lemberskiy, Chenchan Huang, Krishna Shanbhogue, Thorsten Feiweier, and Andrew B. Rosenkrantz*

**Abdomen**

**1620 Autoregressive Moving Average Modeling for Hepatic Iron Quantification in the Presence of Fat**  
*Aaryani Tipirneni-Sajja, Axel J. Krafft, Ralf B. Loeffler, Ruitian Song, Armita Bahrami, Jane S. Hankins, and Claudia M. Hillenbrand*

**1633 Pancreas Deformation in the Presence of Tumors Using Feature Tracking From Free-Breathing XD-GRASP MRI**  
*Teodora Chitiboi, Matthew Muckley, Bari Dane, Chenchan Huang, Li Feng, and Hersh Chandarana*

**1641 IMPROD Biparametric MRI in Men With a Clinical Suspicion of Prostate Cancer (IMPROD Trial): Sensitivity for Prostate Cancer Detection in Correlation With Whole-Mount Prostatectomy Sections and Implications for Focal Therapy**  
*Harri Merisaari, Ivan Jambor, Otto Ettala, Peter J. Boström, Ileana Montoya Perez, Janne Verho, Aida Kiviniemi, Kari Syvänen, Esa Kähkönen, Lauri Eklund, Tapio Pahikkala, Paula Vainio, Jani Saunavaara, Hannu J. Aronen, and Pekka Taimen*

**1651 Prospective Evaluation of MRI Compared With CT for the Etiology of Abdominal Pain in Emergency Department Patients With Concern for Appendicitis**  
*John B. Harringa, Rebecca L. Bracken, John C. Davis, Lu Mao, Douglas R. Kitchin, Jessica B. Robbins, Timothy J. Ziemlewicz, Perry J. Pickhardt, Scott B. Reeder, and Michael D. Repplinger*

**Letter to the Editor**

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**1659 Early Cortical and Late Striatal Diffusion Restriction on 3T MRI in a Long-Lived Sporadic Creutzfeldt–Jakob Disease Case**  
*Paolo Vitali, Fulvia Palesi, Matteo Cotta Ramusino, Marina Pan, Alfredo Costa, Claudia Gandini Wheeler-Kingshott, Mauro Ceroni, Giuseppe Miceli, Nicoletta Anzalone, Giorgio Giaccone, Fabrizio Tagliavini, and Michael Geschwind*