

CME Article

---

1155 **Practical Guide to Dynamic Pelvic Floor MRI**

*Mariya Kobi, Milana Flusberg, Viktoriya Paroder, and Victoria Chernyak*

---

Review Article

---

1171 **Peripheral Nerve Diffusion Tensor Imaging: Overview, Pitfalls, and Future Directions**

*Tina Jeon, Maggie M. Fung, Kevin M. Koch, Ek T. Tan, and Darryl B. Sneag*

---

Original Research

---

Physics

1190 **Estimating the Arterial Input Function From Dynamic Contrast-Enhanced MRI Data With Compensation for Flow Enhancement (I): Theory, Method, and Phantom Experiments**

*Jeroen J.N. van Schie, Cristina Lavini, Lucas J. van Vliet, and Frans M. Vos*

1197 **Estimating the Arterial Input Function From Dynamic Contrast-Enhanced MRI Data With Compensation for Flow Enhancement (II): Applications in Spine Diagnostics and Assessment of Crohn's Disease**

*Jeroen J.N. van Schie, Cristina Lavini, Lucas J. van Vliet, Gem Kramer, Indra Pieters - van den Bos, J.T. Marcus, Jaap Stoker, and Frans M. Vos*

Breast

1205 **Support Vector Machine for Breast Cancer Classification Using Diffusion-Weighted MRI Histogram Features: Preliminary Study**

*Igor Vidić, Liv Egnell, Neil P. Jerome, Jose R. Teruel, Torill E. Sjøbakk, Agnes Østlie, Hans E. Fjøsne, Tone F. Bathen, and Pål Erik Goa*

Whole Body

1217 **Correlation Between Glycolytic Activity on [18F]-FDG-PET and Cell Density on Diffusion-Weighted MRI in Lymphoma at Staging**

*Chiara Giraudo, Georgios Karanikas, Michael Weber, Markus Raderer, Ulrich Jaeger, Ingrid Simonitsch-Klupp, and Marius E. Mayerhoefer*

Abdomen

1227 **Prebiopsy Multiparametric MRI-Based Risk Score for Predicting Prostate Cancer in Biopsy-Naive Men With Prostate-Specific Antigen Between 4–10 ng/mL**

*Durgesh Kumar Dwivedi, Rajeev Kumar, Alok Kumar Dwivedi, Girdhar S. Bora, Sanjay Thulkar, Sanjay Sharma, Siddhartha Datta Gupta, and Naranamangalam R. Jagannathan*

1237 **Diagnostic Performance of CT, Gadoxetate Disodium-Enhanced MRI, and PET/CT for the Diagnosis of Colorectal Liver Metastasis: Systematic Review and Meta-Analysis**

*Sang Hyun Choi, So Yeon Kim, Seong Ho Park, Kyung Won Kim, Ja Youn Lee, Seung Soo Lee, and Moon-Gyu Lee*

1251 **Chronic Kidney Disease: Pathological and Functional Evaluation With Intravoxel Incoherent Motion Diffusion-Weighted Imaging**

*Wei Mao, Jianjun Zhou, Mengsu Zeng, Yuqin Ding, Lijie Qu, Caizhong Chen, Xiaoqiang Ding, Yaqiong Wang, and Caixia Fu*

1260 **In Vivo Assessment of the Placental Anatomy and Perfusion in a Mouse Model of Intrauterine Inflammation**

*Dan Wu, Jun Lei, Bei Jia, Han Xie, Yan Zhu, Jiadi Xu, Susumu Mori, Jiangyang Zhang, and Irina Burd*

1268 **Magnetic Resonance Elastography is as Accurate as Liver Biopsy for Liver Fibrosis Staging**

*HiroYuki Morisaka, Utaroh Motosugi, Shintaro Ichikawa, Tadao Nakazawa, Tetsuo Kondo, Satoshi Funayama, Masanori Matsuda, Tomoaki Ichikawa, and Hiroshi Onishi*

Vascular

1276 **Voxel-by-Voxel 4D Flow MRI-Based Assessment of Regional Reverse Flow in the Aorta**

*Xin Shen, Susanne Schnell, Alex J. Barker, Kenichiro Suwa, Lingzi Tashakkor, Kelly Jarvis, James C. Carr, Jeremy D. Collins, Shyam Prabhakaran, and Michael Markl*

- Chest**                                    **1287 Pulmonary Ventilation Imaging in Asthma and Cystic Fibrosis Using Oxygen-Enhanced 3D Radial Ultrashort Echo Time MRI**  
 Wei Zha, Stanley J. Kruger, Kevin M. Johnson, Robert V. Cadman, Laura C. Bell, Fang Liu, Andrew D. Hahn, Michael D. Evans, Scott K. Nagle, and Sean B. Fain
- Head and Neck**                           **1298 Dynamic Contrast-Enhanced MRI in Orbital Lymphoproliferative Disorders: Effects of Region of Interest Selection Methods on Time Efficiency, Measurement Reproducibility, and Diagnostic Ability**  
 Wen Qian, Xiao-Quan Xu, Hao Hu, Guo-Yi Su, Jiang-Fen Wu, Hai-Bin Shi, and Fei-Yun Wu
- Interventional**                           **1306 Instrument Visualization Using Conventional and Compressed Sensing SEMAC for Interventional MRI at 3T**  
 Lena Sonnow, Wesley D. Gilson, Esther Raitzel, Mathias Nittka, Frank Wacker, and Jan Fritz
- Musculoskeletal**                       **1316 Variable Angle Gray Level Co-occurrence Matrix Analysis of T<sub>2</sub> Relaxation Time Maps Reveals Degenerative Changes of Cartilage in Knee Osteoarthritis: Oulu Knee Osteoarthritis Study**  
 Arttu Peuna, Joonas Hekkala, Marianne Haapea, Jana Podlipská, Ali Guermazi, Simo Saarakkala, Miika T. Nieminen, and Eveliina Lammentausta
- 1328 Five-Minute Knee MRI for Simultaneous Morphometry and T<sub>2</sub> Relaxometry of Cartilage and Meniscus and for Semiquantitative Radiological Assessment Using Double-Echo in Steady-State at 3T**  
 Akshay S. Chaudhari, Marianne S. Black, Susanne Eijgenraam, Wolfgang Wirth, Susanne Maschek, Bragi Sveinsson, Felix Eckstein, Edwin H.G. Oei, Gary E. Gold, and Brian A. Hargreaves
- Neuro**                                       **1342 Deep Gray Matter Iron Measurement in Patients With Liver Cirrhosis Using Quantitative Susceptibility Mapping: Relationship With Pallidal T<sub>1</sub> Hyperintensity**  
 Song Lee, Yoonho Nam, Jinhee Jang, Gun Hyung Na, Dong Goo Kim, Na-Young Shin, Hyun Seok Choi, So-Lyung Jung, Kook-Jin Ahn, and Bum-soo Kim
- 1350 Long-Term Sequelae of Hippocampal Lesions in Patients With Transient Global Amnesia: A Multiparametric MRI Study**  
 Xiaochuan Wang, Ran Zhang, Wenping Wei, Haibo Jiang, Zhongming Gao, Jianzhong Lin, and Jiaying Zhang
- 1359 Myelin Content Changes in Probable Alzheimer’s Disease and Mild Cognitive Impairment: Associations With Age and Severity of Neuropsychiatric Impairment**  
 Eleftherios Kavroulakis, Panagiotis G. Simos, Georgios Kalaizakis, Thomas G. Maris, Dimitra Karageorgou, Ioannis Zaganas, Simeon Panagiotakis, Maria Basta, Alexandros Vgontzas, and Efrosini Papadaki
- 1373 Indirect MRI of <sup>17</sup>O-Labeled Water Using Steady-State Sequences: Signal Simulation and Preclinical Experiment**  
 Kohsuke Kudo, Taisuke Harada, Hiroyuki Kameda, Ikuko Uwano, Fumio Yamashita, Satomi Higuchi, Kunihiko Yoshioka, and Makoto Sasaki
- 1380 Radiomics Signature: A Potential Biomarker for the Prediction of MGMT Promoter Methylation in Glioblastoma**  
 Yi-bin Xi, Fan Guo, Zi-liang Xu, Chen Li, Wei Wei, Ping Tian, Ting-ting Liu, Lin Liu, Gang Chen, Jing Ye, Guang Cheng, Long-biao Cui, Hong-juan Zhang, Wei Qin, and Hong Yin
- Pelvis**                                       **1388 Tumor Radiomic Heterogeneity: Multiparametric Functional Imaging to Characterize Variability and Predict Response Following Cervical Cancer Radiation Therapy**  
 Stephen R. Bowen, William T.C. Yuh, Daniel S. Hippe, Wei Wu, Savannah C. Partridge, Saba Elias, Guang Jia, Zhibin Huang, George A. Sandison, Dennis Nelson, Michael V. Knopp, Simon S. Lo, Paul E. Kinahan, and Nina A. Mayr
- Cardiac**                                     **1397 Robust Motion Correction for Myocardial T<sub>1</sub> and Extracellular Volume Mapping by Principle Component Analysis-Based Groupwise Image Registration**  
 Qian Tao, Pieter van der Tol, Floris F. Berendsen, Elisabeth H.M. Paiman, Hildo J. Lamb, and Rob J. van der Geest

**1406 Native T<sub>1</sub> Mapping for Characterization of Acute and Chronic Myocardial Infarction in Swine: Comparison With Contrast-Enhanced MRI**

*Xi Liu, Jiang-long Hou, Zhi-gang Yang, Chun-chao Xia, Lin-jun Xie, Peng-fei Ye, Wan-lin Peng, Lei Li, Meng-xi Yang, and Ying-kun Guo*

**1415 Feasibility and Reproducibility of Feature-Tracking-Based Strain and Strain Rate Measures of the Left Ventricle in Different Diseases and Genders**

*Alicia M. Maceira, Luis Tuset-Sanchis, Miguel López-Garrido, Marta San Andres, M. Pilar López-Lereu, Jose V. Monmeneu, M. Pilar García-González, and Laura Higuera*

Volume 47, Number 5 was mailed the week of April 23, 2018