

## Reviews

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- CME** **1005 Magnetic Resonance Imaging of the Wrist: Bone and Cartilage Injury**  
*Catherine L. Hayter, Stephanie L. Gold, and Hollis G. Potter*
- CME** **1020 MRI in the Workup of Biliary Tract Filling Defects**  
*Joseph B. Eason, Andrew J. Taylor, and Jinxing Yu*
- CME** **1035 Multiparametric MRI of Prostate Cancer: An Update on State-of-the-Art Techniques and Their Performance in Detecting and Localizing Prostate Cancer**  
*John V. Hegde, Robert V. Mulkern, Lawrence P. Panych, Fiona M. Fennessy, Andriy Fedorov, Stephan E. Maier, and Clare M.C. Tempany*
- 1055 MR Enterography Findings in Abdominopelvic Extraintestinal Complications of Crohn's Disease**  
*Silvio Mazziotti, Alfredo Blandino, Emanuele Scribano, Michele Gaeta, Achille Mileto, Walter Fries, Francesco Bombaci, and Giorgio Ascenti*

## Original Research

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- Neuroimaging** **1064 BOLD Signal in Memory Paradigms in Hippocampal Region Depends on Echo Time**  
*Monika Milian, Lena Zeltner, Silke Klamer, Uwe Klose, Sabine Rona, and Michael Erb*
- 1072 Effects of Age and Gender on Neuroanatomical Volumes**  
*Sachiko Inano, Hidemasa Takao, Naoto Hayashi, Naoki Yoshioka, Harushi Mori, Akira Kunimatsu, Osamu Abe, and Kuni Ohtomo*
- Head and Neck Imaging** **1077 Initial Experience of 3 Tesla Apparent Diffusion Coefficient Values in Differentiating Benign and Malignant Thyroid Nodules**  
*A. Turan Ilica, Hakan Artas, Asli Ayan, Armağan Günel, Ozdes Emer, Zafer Kilbas, Coskun Meric, Mehmet Mahir Atasoy, and Ovsev Uzuner*
- Breast Imaging** **1083 Blood Oxygenation Level-Dependent (BOLD) Contrast Magnetic Resonance Imaging (MRI) for Prediction of Breast Cancer Chemotherapy Response: A Pilot Study**  
*Lan Jiang, Paul T. Weatherall, Roderick W. McColl, Debu Tripathy, and Ralph P. Mason*
- Gastrointestinal Imaging** **1093 Hypointense Hepatocellular Nodules on Hepatobiliary Phase of Gd-EOB-DTPA-Enhanced MRI: Can Increasing the Flip Angle Improve Conspicuity of Lesions?**  
*Tsutomu Tamada, Katsuyoshi Ito, Akira Yamamoto, Kazuya Yasokawa, Atsushi Higaki, Akihiko Kanki, Tomohiro Sato, Daigo Tanimoto, and Hiroki Higashi*
- 1100 In Vivo Validation of 4D Flow MRI for Assessing the Hemodynamics of Portal Hypertension**  
*Alejandro Roldán-Alzate, Alex Frydrychowicz, Eric Niespodzany, Ben R. Landgraf, Kevin M. Johnson, Oliver Wieben, and Scott B. Reeder*
- 1109 Assessing Liver Function Using Dynamic Gd-EOB-DTPA-Enhanced MRI With a Standard 5-Phase Imaging Protocol**  
*Kazuhiro Saito, Joseph Ledsam, Steven Sourbron, Jun Otaka, Yoichi Araki, Soichi Akata, and Koichi Tokuyue*
- 1115 Simple Method for Evaluating the Degree of Liver Parenchymal Enhancement in the Hepatobiliary Phase of Gadoteric Acid-Enhanced Magnetic Resonance Imaging**  
*Tsutomu Tamada, Katsuyoshi Ito, Akira Yamamoto, Kazuya Yasokawa, Atsushi Higaki, Akihiko Kanki, Tomohiro Sato, Daigo Tanimoto, and Hiroki Higashi*
- 1122 Pretherapeutic MRI for Decision-Making Regarding Selective Neoadjuvant Radiochemotherapy for Rectal Carcinoma: Interim Analysis of a Multicentric Prospective Observational Study**  
*Henry Ptok, Reinhard Ruppert, Joachim Stassburg, Christoph Andreas Maurer, Katja Oberholzer, Theodor Junginger, Susanne Merkel, and Paul Hermanek*

**1129 Improved Hepatic Arterial Phase MRI With 3-Second Temporal Resolution**

*Mukta D. Agrawal, Pascal Spincemaille, Kevin W. Mennitt, Bo Xu, Yi Wang, Silvina P. Dutruel, and Martin R. Prince*

**1137 Usefulness of Gd-EOB-DTPA-Enhanced MR Imaging in the Evaluation of Simple Steatosis and Nonalcoholic Steatohepatitis**

*Zhuo Wu, Osamu Matsui, Azusa Kitao, Kazuto Kozaka, Wataru Koda, Satoshi Kobayashi, Yasuji Ryu, Tetsuya Minami, Junichiro Sanada, and Toshifumi Gabata*

**1144 Software for Automated MRI-Based Quantification of Abdominal Fat and Preliminary Evaluation in Morbidly Obese Patients**

*Gregor Thörmer, Henriette Helene Bertram, Nikita Garnov, Veronika Peter, Tatjana Schütz, Edward Shang, Matthias Blüher, Thomas Kahn, and Harald Busse*

**Genitourinary Imaging**

**1151 Endometrial Cancer: Utility of Diffusion-Weighted Magnetic Resonance Imaging With Background Body Signal Suppression at 3T**

*Jung Min Seo, Chan Kyo Kim, Dongil Choi, and Byung Kwan Park*

**1160 Multiphasic Contrast-Enhanced MRI: Single-Slice Versus Volumetric Quantification of Tumor Enhancement for the Assessment of Renal Clear-Cell Carcinoma Fuhrman Grade**

*Hebert Alberto Vargas, Holly G. Delaney, Eithne M. Delappe, Ya Wang, Junting Zheng, Chaya S. Moskowitz, Yongqiang Tan, Binsheng Zhao, Lawrence H. Schwartz, Hedvig Hricak, Paul Russo, and Oguz Akin*

**1168 Targeted Biopsy Based on ADC Map in the Detection and Localization of Prostate Cancer: A Feasibility Study**

*Yuji Watanabe, Masako Nagayama, Tohru Araki, Akito Terai, Akira Okumura, Yoshiki Amoh, Takayoshi Ishimori, Satoru Nakashita, and Yoshihiro Dodo*

**1178 Corticomedullary Differentiation of the Kidney: Evaluation With Noncontrast-Enhanced Steady-State Free Precession (SSFP) MRI With Time-Spatial Labeling Inversion Pulse (Time-SLIP)**

*Akihiko Kanki, Katsuyoshi Ito, Tsutomu Tamada, Yasufumi Noda, Akira Yamamoto, Daigo Tanimoto, Tomohiro Sato, and Atsushi Higaki*

**Musculoskeletal Imaging**

**1182 qMRI Relaxometry of Mandibular Bone Marrow: A Monomodal Distribution in Sickle Cell Disease**

*Joseph H. Liao, Hernan Jara, Rohini Nadgir, Elliott Elias, Nekou Nowrouzi, Naoko Saito, Martin H. Steinberg, and Osamu Sakai*

**Vascular Imaging**

**1189 MRI of Carotid Atherosclerosis to Identify TIA and Stroke Patients Who Are at Risk of a Recurrence**

*Robert M. Kwee, Robert J. van Oostenbrugge, Werner H. Mess, Martin H. Prins, Rob J. van der Geest, Johannes W.M. ter Berg, Cees L. Franke, Arthur G.G.C. Korten, Bé J. Meems, Jos M.A. van Engelshoven, Joachim E. Wildberger, and M. Eline Kooi*

**Magnetic Resonance Spectroscopy**

**1195 <sup>1</sup>H Magnetic Resonance Spectroscopy of Neurodegeneration in a Mouse Model of Niemann-Pick Type C1 Disease**

*John W. Totenhagen, Eriko S. Yoshimaru, Robert P. Erickson, and Theodore P. Trouard*

**Interventional Imaging**

**1202 Rapid Freehand MR-Guided Percutaneous Needle Interventions: An Image-Based Approach to Improve Workflow and Feasibility**

*Eva Rothgang, Wesley D. Gilson, Frank Wacker, Joachim Hornegger, Christine H. Lorenz, and Clifford R. Weiss*

**Technical Developments**

**1213 Quantification of Left Ventricular Indices From SSFP Cine Imaging: Impact of Real-World Variability in Analysis Methodology and Utility of Geometric Modeling**

*Christopher A. Miller, Peter Jordan, Alex Borg, Rachel Argyle, David Clark, Keith Pearce, and Matthias Schmitt*

**Clinical Note**

**1223 Hyperpolarized Helium-3 Magnetic Resonance Imaging of Chronic Obstructive Pulmonary Disease Exacerbation**

*Miranda Kirby, Nikhil Kanhere, Roya Etemad-Rezai, David G. McCormack, and Grace Parraga*

## Technical Notes

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**1228 Direct MR Arthrography of the Shoulder under Axial Traction: Feasibility Study to Evaluate the Superior Labrum-Biceps Tendon Complex and Articular Cartilage**

*Fabio Becce, Delphine Richarme, Patrick Omoumi, Ali Djahangiri, Alain Farron, Reto Meuli, and Nicolas Theumann*

**1234 Magnetization Transfer-Based 3D Visualization of Foot Peripheral Nerves**

*Ralf Mekte, Benedicte Mortamet, Cristina Granziera, Gunnar Krueger, Nicolas Chevrey, Nicolas Theumann, and Guilio Gambarota*

**1238 Multi-system Repeatability and Reproducibility of Apparent Diffusion Coefficient Measurement Using an Ice-Water Phantom**

*Dariya Malyarenko, Craig J. Galbán, Frank J. Londy, Charles R. Meyer, Timothy D. Johnson, Alnawaz Rehemtulla, Brian D. Ross, and Thomas L. Chenevert*

**1247 Recovery of Chemical Estimates by Field Inhomogeneity Neighborhood Error Detection (REFINED): Fat/Water Separation at 7 Tesla**

*Sreenath Narayan, Satish C. Kalhan, and David L. Wilson*

## Erratum

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**1254 Taylor BA, Loeffler RB, Song R, McCarville MB, Hankins JS, Hillenbrand CM. Simultaneous Field and  $R_2^*$  Mapping to Quantify Liver Iron Content Using Autoregressive Moving Average Modeling. *J Magn Reson Imaging* 2012;35:1125-1132**

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