

From the Editor's Notebook

1487 ■ **June Is Heart Month at the AJR.** *Stanley RJ*

Centennial Article

1489 ■ **Commentary.** The Legacy of "Visualization of the Chambers of the Heart, the Pulmonary Circulation, and the Great Blood Vessels in Man." *Nath H*

Abdominal Imaging

1491 ■ **Original Research.** Patient-Controlled Room Air Insufflation Versus Automated Carbon Dioxide Delivery for CT Colonography. *Shinners TJ, Pickhardt PJ, Taylor AJ, Jones DA, Olsen CH*

1497 ■ **Original Research.** CT Features of Hepatic Venooclusive Disease and Hepatic Graft-Versus-Host Disease in Patients After Hematopoietic Stem Cell Transplantation. *Erturk SM, Mortelé KJ, Binkert CA, et al.*

1502 ■ **Original Research.** Comparison of CT During Arterial Portography and MR During Arterial Portography in the Detection of Liver Metastases. *Hosch WP, Schmidt SM, Plaza S, et al.*

1512 ■ **Original Research.** Evaluation of Primary Malignancies of the Liver Using Contrast-Enhanced Sonography: Correlation With Pathology. *Fan Z-H, Chen M-H, Dai Y, et al.*

1520 ■ **Clinical Observations.** The Celiac Ganglia: Anatomic Study Using MRI in Cadavers. *Zhang XM, Zhao QH, Zeng NL, et al.*

CME 1524 ■ **Perspective.** Abdominal MRI at 3.0 T: The Basics Revisited. *Merkle EM, Dale BM*

1533 ■ **Pictorial Essay.** MRI of Focal Splenic Lesions Without and With Dynamic Gadolinium Enhancement. *Luna A, Ribes R, Caro P, Luna L, Aumente E, Ros PR*

1548 ■ **Case Report.** Abdominal Metastases of Medulloblastoma Related to a Ventriculoperitoneal Shunt. *Loiacono F, Morra A, Venturini S, Balestreri L*

Hepatobiliary Imaging

1551 ■ **Original Research.** Prospective Multicenter Trial Evaluating a Novel Method of Characterizing Focal Liver Lesions Using Contrast-Enhanced Sonography. *Leen E, Ceccotti P, Kalogeropoulou C, Angerson WJ, Moug SJ, Horgan PG*

1560 ■ **Original Research.** Comparison of Visual and Quantitative Analysis for Characterization of Insonated Liver Tumors After Microbubble Contrast Injection. *Quaia E, Palumbo A, Rossi S, et al.*

1571 ■ **Original Research.** Quadruple-Phase MDCT of the Liver in Patients with Suspected Hepatocellular Carcinoma: Effect of Contrast Material Flow Rate. *Schima W, Hammerstingl R, Catalano C, et al.*

1580 ■ **Clinical Observations.** Preoperative Evaluation of Resectability of Klatskin Tumor with 16-MDCT Angiography and Cholangiography. *Chen HW, Pan AZ, Zhen ZJ, et al.*

1587 ■ **Pictorial Essay.** Focal Nodular Hyperplasia: Lesion Evaluation Using 16-MDCT and 3D CT Angiography. *Kamel IR, Liapi E, Fishman EK*

Gastrointestinal Imaging

1597 ■ **Original Research.** Polyp Measurement Using CT Colonography: Agreement with Colonoscopy and Effect of Viewing Conditions on Interobserver and Intraobserver Agreement. *Burling D, Halligan S, Taylor S, et al.*

1605 ■ **Original Research.** Polyp Volume Versus Linear Size Measurements at CT Colonography: Implications for Noninvasive Surveillance of Unresected Colorectal Lesions. *Pickhardt PJ, Lehman VT, Winter TC, Taylor AJ*

1611 ■ **Clinical Observations.** Flat Polyps of the Colon: Detection with 16-MDCT Colonography—Preliminary Results. *Park SH, Ha HK, Kim AY, et al.*

1618 ■ **Pictorial Essay.** Bloodborne Metastatic Tumors to the Gastrointestinal Tract: CT Findings with Clinicopathologic Correlation. *Kim SY, Kim KW, Kim AY, et al.*

1627 ■ **Case Report.** Esophagopleural Fistula Secondary to Esophageal Wall Ballooning and Thinning After Pneumonectomy: Findings on Chest CT and Esophagography. *Liu PS, Levine MS, Torigian DA*

Genitourinary Imaging

1630 ■ **Original Research.** Utility of 16-MDCT Angiography for Comprehensive Preoperative Vascular Evaluation of Laparoscopic Renal Donors. *Raman SS, Pojchamarnwiputh S, Muangsomboon K, Schulam PG, Gritsch HA, Lu DSK*

1639 ■ **Original Research.** Comparison of 16-MDCT and MRI for Characterization of Kidney Lesions. *Beer AJ, Dobritz M, Zantl N, Weirich G, Stollfuss J, Rummeny EJ*

CT Imaging

1651 ■ **Original Research.** IV Contrast Administration for CT: A Survey of Practices for the Screening and Prevention of Contrast Nephropathy. *Elicker BM, Cypel YS, Weinreb JC*

Cardiac Imaging

1659 ■ **Original Research.** Clinical Value of MDCT in the Diagnosis of Coronary Artery Disease in Patients with a Low Pretest Likelihood of Significant Disease. *Nikolaou K, Rist C, Wintersperger BJ, et al.*

1669 ■ **Original Research.** SENSE or k-MAG to Accelerate Free Breathing Navigator-Guided Coronary MR Angiography. *Muthupillai R, Smink J, Hong S, Ravindran R, Lee VV, Flamm SD*

1676 ■ **Original Research.** Diagnostic Performance of MDCT for Detecting Aortic Valve Regurgitation. *Feuchtner GM, Dichtl W, Schachner T, et al.*

1682 ■ **Clinical Observations.** MR Findings in Cardiac Amyloidosis. *vanden Driesen RI, Slaughter RE, Strugnell WE*

Cardiopulmonary Imaging

1686 ■ **Original Research.** Experience in 207 Combined MRI Examinations for Acute Pulmonary Embolism and Deep Vein Thrombosis. *Kluge A, Mueller C, Strunk J, Lange U, Bachmann G*

Chest Imaging

1697 ■ **Clinical Observations.** Pulmonary Lesions Associated With Visceral Larva Migrants Due to *Ascaris suum* or *Toxocara canis*: Imaging of Six Cases. *Sakai S, Shida Y, Takahashi N, et al.*

Interventional Radiology

1703 ■ **Technical Innovation.** Percutaneous Cryotherapy of the Thorax: Safety Considerations for Complex Cases. *Ahmed A, Littrup P*

Pediatric Imaging

- 1707** ■ **Original Research.** Thin-Section CT 12 Months After the Diagnosis of Severe Acute Respiratory Syndrome in Pediatric Patients. *Chu WCW, Li AM, Ng AWH, et al.*

Women's Imaging

- 1716** ■ **Commentary.** Focusing in on Dose Reduction: The FDA Perspective. *Barr HJ, Ohlhaber T, FINDER C*
- 1718** ■ **Original Research.** Radiation Dose to the Female Breast from I6-MDCT Body Protocols. *Hurwitz LM, Yoshizumi TT, Reiman RE, et al.*
- 1723** ■ **Original Research.** Contrast-Enhanced Breast MRI in Patients with Suspicious Microcalcifications on Mammography: Results of a Multicenter Trial. *Bazzocchi M, Zuiani C, Panizza P, et al.*
- 1733** ■ **Technical Innovation.** MRI-Guided Vacuum-Assisted Breast Biopsy with a Handheld Portable Biopsy System. *Ghate SV, Rosen EL, Soo MSC, Baker JA*

Vascular Imaging

- 1737** ■ **Original Research.** Optimization of CT Angiography of the Carotid Artery with a I6-MDCT Scanner: Craniocaudal Scan Direction Reduces Contrast Material-Related Perivenous Artifacts. *de Monyé C, de Weert TT, Zaalberg W, et al.*
- 1746** ■ **Original Research.** Hybrid Peripheral 3D Contrast-Enhanced MR Angiography of Calf and Foot Vasculature. *Tongdee R, Narra VR, McNeal G, et al.*

Musculoskeletal Imaging

- 1754** ■ **Original Research.** MDCT Versus Digital Radiography in the Evaluation of Bone Healing in Orthopedic Patients. *Krestan CR, Noske H, Vasilevska V, et al.*
- 1761** ■ **Original Research.** Relationship Between Bone Marrow Edema and Development of Symptoms in Patients With Osteonecrosis of the Femoral Head. *Ito H, Matsuno T, Minami A*
- 1771** ■ **Original Research.** MRI Comparison of Periprosthetic Structures Around Zirconium Knee Prostheses and Cobalt Chrome Prostheses. *Raphael B, Haims AH, Wu JS, Katz LD, White LM, Lynch K*

- 1778** ■ **Original Research.** Reliability Analysis of I6-MDCT in Preoperative Evaluation of Total Knee Arthroplasty and Comparison With Intraoperative Measurements. *Lee IS, Choi J-A, Kim TK, Han I, Lee JW, Kang HS*

Nuclear Medicine

- 1783** ■ **Case Report.** Flare Response in ¹⁸F-Fluoride Ion PET Bone Scanning. *Wade AA, Scott JA, Kuter I, Fischman AJ*

Neuroradiology

- 1787** ■ **Clinical Observations.** Sonography of Brachial Plexus Traction Injuries. *Haber HP, Sinis N, Haerle M, Schaller H-E*

Computers in Radiology

- 1792** ■ **Computers in Radiology.** Internet-Based Dissemination of Educational Audiocasts: A Primer in Podcasting—How to Do It. *Rowell MR, Corl FM, Johnson PT, Fishman EK*

On the AJR Viewbox

- 1797** ■ **Monomelic Spread of Metastatic Disease due to Proximal Deep Venous Thrombosis.** *Van der Wall H, Palmer A*
- 1799** ■ **Pseudotumoral Colonic Tuberculosis Complicating Rheumatoid Arthritis Treated with a Tumor Necrosis Factor Antagonist.** *Lesnik A, Bolivar J, Morel J, Taourel P*
- 1800** ■ **Pleuropulmonary Endometriosis: CT-Pathologic Correlation.** *Lee Y-R, Choi YW, Jeon SC, Paik SS, Kang J-H*

In Practice

- A11** ■ **Policy Brief.** *Forman HP*
- A12** ■ **At Press Time**

Other Content

- A9** ■ **AJR Author and Submission Information**
- A9** ■ **AJR Business and Subscriber Information**
- A10** ■ **Transfer of Copyright Agreement and Disclosure Form**
- 1802** ■ **Forthcoming Articles in the Next Issue**
- 1803** ■ **Classified Advertisements**

Cardiac Imaging Supplement

- S337** ■ **Editorial.** Cardiac Imaging 2006. *Colletti PM*
- S341** ■ **Review.** β -blockers for Cardiac CT: A Primer for the Radiologist. *Pannu HK, Alvarez W Jr, Fishman EK*
- S346** ■ **Original Research.** MDCT Angiography of Acute Chest Pain: Evaluation of ECG-Gated and Nongated Techniques. *Raptopoulos VD, Boisselle PB, Michailidis N, et al.*
- S357** ■ **Original Research.** Cardiovascular Function in Multi-Ethnic Study of Atherosclerosis: Normal Values by Age, Sex, and Ethnicity. *Natori S, Lai S, Finn JP, et al.*
- S366** ■ **Clinical Observations.** MDCT Assessment of Right Ventricular Systolic Function. *Dogan H, Kroft LJM, Bax JJ, et al.*
- S371** ■ **Original Research.** MDCT Determination of Volume and Function of the Left Ventricle: Are Short-Axis Image Reformations Necessary? *Juergens KU, Seifarth H, Maintz D, et al.*
- S379** ■ **Original Research.** Synergy of MDCT and Cine MRI for the Evaluation of Cardiac Motility. *Boll DT, Bossert AS, Aschoff AJ, Hoffmann MH, Gilkeson RC*
- S387** ■ **Clinical Observations.** MDCT of the Coronary Arteries: Feasibility of Low-Dose CT with ECG-Pulsed Tube Current Modulation to Reduce Radiation Dose. *Abada HT, Larchez C, Daoud B, Sigal-Cinqualbre A, Paul J-F*
- S391** ■ **Original Research.** Detection of Myocardial Bridging with ECG-Gated MDCT and Multiplanar Reconstruction. *Kantarci M, Duran C, Durur I, et al.*
- S395** ■ **Clinical Observations.** Early Postoperative Assessment of Coronary Artery Bypass Graft Patency and Anatomy: Value of Contrast-Enhanced I6-MDCT with Retrospectively ECG-Gated Reconstructions. *Vernhet-Kovacsik H, Battistella P, Demaria R, et al.*
- S401** ■ **Original Research.** MRI of Coronary Vessel Walls Using Radial k-Space Sampling and Steady-State Free Precession Imaging. *Katoh M, Spuentrup E, Buecker A, et al.*
- S407** ■ **Original Research.** Computer-Aided Detection and Evaluation of Lipid-Rich Plaque on Noncontrast Cardiac CT. *Dey D, Callister T, Slomka P, et al.*
- S414** ■ **Original Research.** CT Analysis of the Growth Rate of Aortic Diameter Affected by Acute Type B Intramural Hematoma. *Sueyoshi E, Sakamoto I, Uetani M, Matsuoka Y*
- S421** ■ **Pictorial Essay.** Acute and Chronic Pulmonary Emboli: Angiography-CT Correlation. *Wittram C, Kalra MK, Maher MM, Greenfield A, McLoud TC, Shepard J-AO*
- S430** ■ **Residents in Radiology Awards**

Online Content

Book Reviews

- E13** ■ **MR Imaging Strategies for the Lower Extremities.** Breitensteher M. *Reviewed by Steinbach LS*
- E14** ■ **Bone and Joint Imaging.** Resnick D, Kransdorf MJ, eds. *Reviewed by Chapman V*
- E15** ■ **New Techniques in Gastrointestinal Imaging.** Halligan S, Fenlon HM, eds. *Reviewed by Bechtold RE*
- E16** ■ **Nuclear Medicine in Clinical Diagnosis and Treatment.** Ell PJ, Gambhir SS, eds. *Reviewed by Miller TR*
- E17** ■ **Imaging of the Nervous System: Diagnostic and Therapeutic Applications.** Latchew RE, Kucharczyk J, Moseley ME, eds. *Reviewed by Baxter A*
- E18** ■ **Primer on MR Imaging of the Abdomen and Pelvis.** Martin DR, Brown MA, Semelka RC. *Reviewed by Harisinghani MG*
- E19** ■ **Ultrasound in Obstetrics and Gynecology, vol. I, Obstetrics.** Merz E, Telger T, translator. *Reviewed by Angtuaco TL*

Letters

- E20** ■ **Defecography for the Diagnosis of Abnormalities in Patients with Fecal Incontinence.** Karasick S
- E20** ■ **Reply.** Dobben AC, Stoker J
- E21** ■ **Treatment of Sacral Insufficiency Fractures.** Tsiridis E, Giannoudis PV
- E21** ■ **Reply.** Given II CA, Butler CL
- E22** ■ **Wet Versus Dry Laser Printers for Copying Digital Mammograms.** Hall FM
- E22** ■ **Reply.** Schueller G
- E23** ■ **Appropriate Use of CT Scanning in Acute Appendicitis.** Emby DJ
- E24** ■ **Female Breast Radiation Exposure.** Milne ENC