Elenco delle Riviste Scientifiche disponibili presso
la Biblioteca dell’Azienda Ospedaliera di Alessandria

Si presenta di seguito l’elenco delle Riviste Scientifiche disponibili presso la Biblioteca dell’Azienda Ospedaliera di Alessandria, e non presenti nella Biblioteca Virtuale del Piemonte (BVS). Per accedere alle Riviste in elenco contattare il personale della Biblioteca al 6499.

AJNR - American Journal of Neuroradiology  http://www.ajnr.org/
American Journal of Respiratory and Critical Care Medicine  http://www.atsjournals.org/
AJR : AMERICAN JOURNAL OF ROENTGENOLOGY  http://www.ajronline.org/
Assistenza Infermieristica e Ricerca  http://www.air-online.it/
Chest  http://journal.publications.chestnet.org/issues.aspx
Epidemiologia e Prevenzione  http://www.epiprev.it
Pediatrics  http://pediatrics.aappublications.org/contents-by-date.0.shtml
Radiology  http://radiology.rsnajnls.org/contents-by-date.0.shtml
CME Feature
A CME activity is available online for the designated article. See p 329 for CME objectives.

Hear What We Think
The editor, deputy editors, and authors podcast on the importance and context of selected articles.

Science to Practice
309 Science to Practice: Will Contrast Agents for Molecular Imaging of Angiogenesis Help Overcome the Limitations of Functional Vascular Imaging?
Fabian Kiessling
Schmieder and colleagues introduced a new molecular MR probe with a promising lipophilic gadolinium chelate complex that provides high relaxivity; results of in vivo experiments clearly demonstrate the excellence of the probe for longitudinally monitoring $\alpha_v\beta_3$ integrin expression in tumors.
See also Schmieder et al (p 470).

Reviews and Commentary
Annual Oration
312 The Story Behind the Image
Richard B. Gunderman

Editorials
316 A Statement about Authorship from Individual Members of the Society of Chairs of Academic Radiology Departments
Valerie P. Jackson

318 Apparent Diffusion Coefficient and Beyond: What Diffusion MR Imaging Can Tell Us about Tissue Structure
Denis Le Bihan
Although apparent diffusion coefficient remains a valid and useful clinical marker, it is clear that more advanced processing of diffusion MR imaging data is necessary if one wants, someday, diffusion MR imaging to become a “virtual biopsy” tool.
See also Koral et al (p 532).

Historical Perspectives
323 Fuller Albright, Postmenopausal Osteoporosis, and Fish Vertebrae
William A. Murphy, Jr, and Devon M. DiVito
Historically, it is fitting to accept the term fish vertebra as the synonym for severely demineralized biconcave human vertebrae, recognize the pattern as normal for many fish species, and honor Fuller Albright—who clearly linked the term with postmenopausal osteoporosis and other metabolic bone diseases.

The cover images are from the interlude by Ramakantan (pp 315).
**Reviews and Commentary**  ■  CONTINUED

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>327</td>
<td>Screening for Early Detection of Breast Cancer: Overdiagnosis versus Suboptimal Patient Management</td>
<td>David Gur and Jules H. Sumkin</td>
</tr>
<tr>
<td>330</td>
<td>The Use of MR Imaging in Treatment Planning for Patients with Rectal Carcinoma: Have You Checked the “DISTANCE”?</td>
<td>Stephanie Nougaret, Caroline Reinhold, Hisham W. Mikhail, Philippe Rouanet, Frédéric Bibeau, and Gina Brown</td>
</tr>
</tbody>
</table>

**Original Research**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>347</td>
<td>Tailored Breast Cancer Screening Program with Microdose Mammography, US, and MR Imaging: Short-term Results of a Pilot Study in 40–49-Year-Old Women</td>
<td>Elena Venturini, Claudio Losio, Pietro Panizza, Maria Grazia Rodighiero, Isabella Fedele, Simona Tacchini, Elena Schiani, Silvia Ravelli, Giulia Cristel, Marta Maria Panzeri, Francesco De Cobelli, and Alessandro Del Maschio</td>
</tr>
<tr>
<td>366</td>
<td>Hybrid PET/MR Imaging of the Heart: Feasibility and Initial Results</td>
<td>Felix Nensa, Thorsten D. Poppel, Karsten Beidewellen, Juliane Schelhorn, Amir A. Mahabadi, Raimund Erbel, Philipp Heuch, Kai Nassenstein, Andrea Bockisch, Michael Forsting, and Thomas Schlosser</td>
</tr>
</tbody>
</table>

**Cardiac Imaging**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>374</td>
<td>Cardiac Allograft Vasculopathy after Heart Transplantation: Electrocardiographically Gated Cardiac CT Angiography for Assessment</td>
<td>Tarun K. Mittal, Mathen G. Panicker, Andrew G. Mitchell, and Nicholas R. Banner</td>
</tr>
</tbody>
</table>

*In our opinion, there is no such thing as overdiagnosis; there is only suboptimal use of accurate information, suboptimal management, or both, and there may be many instances of overtreatment in women in whom these abnormal findings have been detected.*
A Dual-Slot Microwave Antenna for More Spherical Ablation Zones: Ex Vivo and in Vivo Validation
Jason Chiang, Kieran A. Hynes, Mariajose Bedoya, and Christopher L. Brace

The cooled dual-slot antenna creates a more spherical ablation zone than does a cooled monopole antenna in both ex vivo and in vivo liver models.

High Sensitivity of Diffusion-weighted MR Imaging for the Detection of Liver Metastases from Neuroendocrine Tumors: Comparison with T2-weighted and Dynamic Gadolinium-enhanced MR Imaging
Gaspard d’Assignies, Priscilla Fina, Onorina Bruno, Marie-Pierre Vuillerme, Florence Tubach, Valérie Paradis, Alain Sauvanet, Philippe Ruzniowski, and Valérie Vilgrain

Diffusion-weighted MR imaging was more sensitive for the detection and characterization of liver metastases from neuroendocrine tumors than T2-weighted fast spin-echo or dynamic gadolinium-enhanced MR sequences.

Perfusion CT Vascular Parameters Do Not Correlate with Immunohistochemically Derived Microvessel Density Count in Colorectal Tumors
Shwetal Dighe, Helena Blake, Nelesh Jeyadevan, Isabel Castellano, Dow-Mu Koh, Matthew Orton, Ian Chandler, Ian Swift, and Gina Brown

We could not demonstrate any consistent correlation between any of the perfusion CT–derived vascular parameters in colorectal tumors and the microvessel density count obtained from immunohistochemical staining with factor VIII and CD105 antibodies.

Advanced Fibrosis in Nonalcoholic Fatty Liver Disease: Noninvasive Assessment with MR Elastography
Donghee Kim, W. Ray Kim, Jayant A. Talwalkar, Hwa Jung Kim, and Richard L. Ehman

MR elastography provided the most accurate information about the fibrosis stage, whereas laboratory marker panels such as FIB-4 score and nonalcoholic fatty liver disease fibrosis score were found to have a reasonably high correlation with advanced fibrosis.

Unresectable Hepatocellular Carcinoma: MR Imaging after Intraarterial Therapy. Part I. Identification and Validation of Volumetric Functional Response Criteria
Susanne Bonekamp, Zhen Li, Jean-François H. Geschwind, Vivek Gowdra Halappa, Celia Pamela Corona-Villalobos, Diane Reyes, Timothy M. Pawlik, David Bonekamp, John Eng, and Ihab R. Kamel

An apparent diffusion coefficient increase of more than 25% and a decrease of venous enhancement of 65% enabled good stratification of patients into responders and nonresponders and were associated with improved overall survival in patients with unresectable hepatocellular carcinoma.

Unresectable Hepatocellular Carcinoma: MR Imaging after Intraarterial Therapy. Part II. Response Stratification Using Volumetric Functional Criteria after Intraarterial Therapy
Susanne Bonekamp, Vivek Gowdra Halappa, Jean-François H. Geschwind, Zhen Li, Celia Pamela Corona-Villalobos, Diane Reyes, Nikhil Bhagat, David P. Cosgrove, Timothy M. Pawlik, Esteban Mezey, John Eng, and Ihab R. Kamel

Volumetric functional MR imaging response classification could be used to stratify patients into three groups that had significantly different overall survival.

See also the other article by Bonekamp et al (p 431).
**Original Research ▶ CONTINUED**

<table>
<thead>
<tr>
<th>Genitourinary Imaging</th>
<th>440</th>
<th>Multiparametric Prostate MR Imaging with T2-weighted, Diffusion-weighted, and Dynamic Contrast-enhanced Sequences: Are All Pulse Sequences Necessary to Detect Locally Recurrent Prostate Cancer after Radiation Therapy?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Olopio F. Donati, Sung Il Jung, Hebert Alberto Vargas, David H. Gultekin, Junting Zheng, Chaya S. Moskowitz, Hedvig Hricak, Michael J. Zelefsky, and Oguz Akin</td>
</tr>
<tr>
<td></td>
<td></td>
<td>We found that the best overall diagnostic accuracy and the highest interreader agreement for the detection of recurrent prostate cancer after radiation therapy were achieved with a combination of T1- and T2-weighted imaging and diffusion-weighted imaging; the addition of dynamic contrast material–enhanced MR imaging to these sequences did not significantly improve accuracy in the detection of recurrent prostate cancer.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MR Imaging–guided Focal Cryoablation in Patients with Recurrent Prostate Cancer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joyce G. R. Bomers, Derya Yakar, Christiaan G. Overduin, J. P. Michiel Sedelaar, Henk Vergunst, Jelle O. Barentsz, Frank de Lange, and Jurgen J. Fütterer</td>
</tr>
<tr>
<td>Transperineal MR imaging–guided focal cryoablation of the prostate in patients with a local recurrence after radiation therapy was feasible and safe; although initial results are promising, longer follow-up is needed and more patients must be included.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Prostate Cancer Diagnosis: Multiparametric MR-targeted Biopsy with Cognitive and Transrectal US–MR Fusion Guidance versus Systematic Biopsy—Prospective Multicenter Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philippe Puech, Olivier Rouvière, Raphaëlle Renard-Penna, Arnauld Villers, Patrick Devois, Marc Colombel, Marc-Olivier Bitker, Xavier Leroy, Florence Mège-Lechevalier, Eva Comperat, Adil Ouzzane, and Laurent Lemaître</td>
</tr>
<tr>
<td>Prebiopsy MR imaging results combined with transrectal US–guided targeted biopsy increase the performance of biopsy conducted without knowledge of imaging results in diagnosing clinically significant and anterior prostate cancer.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Molecular Imaging</th>
<th>470</th>
<th>Molecular MR Imaging of Neovascular Progression in the Vx2 Tumor with αvβ3-Targeted Paramagnetic Nanoparticles</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Anne H. Schmieder, Patrick M. Winter, Todd A. Williams, John S. Allen, Grace Hu, Huiying Zhang, Shelton D. Caruthers, Samuel A. Wickline, and Gregory M. Lanza</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High-spatial-resolution molecular MR imaging with improved-relaxivity αvβ3-targeted gadolinium tetrazacyclododecane tetraacetic acid phosphatidylethanolamine nanoparticles provided quantitative, temporal, and spatially resolved assessments of tumor neovasculature, which may enable judicious patient selection for antiangiogenic therapy and aid in treatment monitoring.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Musculoskeletal Imaging</th>
<th>481</th>
<th>Articular Cartilage: Evaluation with Fluid-suppressed 7.0-T Sodium MR Imaging in Subjects with and Subjects without Osteoarthritis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Guillaume Madelin, James Babb, Ding Xia, Gregory Chang, Svettana Krasnokutsky, Steven B. Abramson, Alexej Jerschow, and Ravinder R. Regatte</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The results of this study show that quantitative sodium MR imaging with fluid suppression by using adiabatic inversion recovery could be a useful biomarker for detecting osteoarthritis (loss of glycosaminoglycan) in articular cartilage in vivo at 7.0 T.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>492</th>
<th>Intervertebral Disk Degeneration: T1ρ MR Imaging of Human and Animal Models</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Zhiyu Zhou, Bo Jiang, Zhiliang Zhou, Ximin Pan, Haixing Sun, Baoding Huang, Tangzhao Liang, Steffen Ringgaard, and Xuenong Zou</td>
</tr>
<tr>
<td></td>
<td>This study demonstrated a large T1ρ value decrease in the nucleus pulposus between Pfirrmann grades II and III in human subjects, which coincided with rapid degeneration in rhesus monkeys.</td>
</tr>
</tbody>
</table>
## Original Research ■ CONTINUED

### Neuroradiology 501

**Amnestic Mild Cognitive Impairment: Topological Reorganization of the Default-Mode Network**
Liang Wang, He Li, Ying Liang, Junying Zhang, Xin Li, Ni Shu, Yongyan Y. Wang, and Zhanjun Zhang

The present study provided evidence for disrupted anterior-to-posterior functional connectivity and topological reorganization of the default-mode network in patients with amnestic mild cognitive impairment during an episodic memory task. ✂️

### Neuronal Excitotoxicity after Carotid Angioplasty and Stent Placement Procedures 515

Florentino Nombela, Miguel Blanco, Natalia Pérez de la Ossa, José Luis Caniego, Tomás Sobrino, Domingo Escudero, Francisco Campos, María Angeles Moro, Ignacio Lizasoain, Antoni Dávalos, José Castillo, and José Vivancos

Carotid angioplasty and stent placement can be considered a human model of transient ischemic attack. ✂️

### Variability of Clinical Functional MR Imaging Results: A Multicenter Study 521


Researchers in clinical practice and clinical functional MR biomarker studies should consider that the center of task-specific brain activation may vary up to 16.5 mm, with the investigating site, and thus should maximize functional MR signal strength and evaluate the reliability of local results with percentage signal change and contrast-to-noise ratio data. ✂️

### Common Pediatric Cerebellar Tumors: Correlation between Cell Densities and Apparent Diffusion Coefficient Metrics 532

Korgün Koral, Derek Mathis, Barjorg Gimi, Lynn Gargan, Bradley Weprin, Daniel C. Bowers, and Linda Margraf

Cellularity appears to be an important determinant of some apparent diffusion coefficient (ADC) metrics (mean tumor ADC and minimum tumor ADC) in common pediatric cerebellar tumors. ✂️

See also the editorial by Le Bihan (p 318).

### Effects of Automated Kilovoltage Selection Technology on Contrast-enhanced Pediatric CT and CT Angiography 538

Marilyn J. Siegel, Charles Hildebolt, and David Bradley

We have shown that automated kilovoltage selection technology can be beneficial in reducing radiation dose while maintaining image quality and unchanged contrast-to-noise ratio in pediatric contrast-enhanced thoracic and abdominal CT examinations and CT angiography. ✂️

### Percutaneous Facet Screw Fixation of Lumbar Spine with CT and Fluoroscopic Guidance: A Feasibility Study 548

Nicolas Amoretti, Marie-Eve Amoretti, Istvan Hovorka, Olivier Hauger, Pascal Boileau, and Laurent Huwart

The results of our study showed that supplementary posterior arthrodesis following anterior lumbar interbody fusion or anterior pseudarthrosis could be successfully performed with local anesthesia by means of a CT- and fluoroscopy-guided percutaneous facet screw fixation technique. ✂️
### Contents

**Original Research**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>556</td>
<td>3.0-T MR Imaging of Intracoronary Local Delivery of Motexafin Gadolinium into Coronary Artery Walls</td>
<td>Yanfeng Meng, Jinnan Wang, JiHong Sun, Feng Zhang, Patrick Willis, Jiakai Li, Han Wang, Tong Zhang, Stephanie Soriano, Bensheng Qiu, and Xiaoming Yang</td>
</tr>
<tr>
<td>572</td>
<td>Effect of Lung Inflation Level on Hyperpolarized $^3$He Apparent Diffusion Coefficient Measurements in Never-Smokers</td>
<td>Ahmed F. Halaweish, Eric A. Hoffman, Daniel R. Theedens, Matthew K. Fuld, Jered P. Sieren, and Edwin J. R. van Beek</td>
</tr>
<tr>
<td>589</td>
<td>Small- and Medium-sized Hepatocellular Carcinomas: Monopolar Radiofrequency Ablation with a Multiple-Electrode Switching System—Mid-term Results</td>
<td>Sungmin Woo, Jeong Min Lee, Jeong Hee Yoon, Ijin Joo, SeHyung Kim, Jae Young Lee, Jung Hwan Yoon, Yoon Jun Kim, Joon Kos Han, and Byung Ihn Choi</td>
</tr>
</tbody>
</table>

**Technical Developments**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>556</td>
<td>3.0-T MR Imaging of Intracoronary Local Delivery of Motexafin Gadolinium into Coronary Artery Walls</td>
</tr>
</tbody>
</table>

**Thoracic Imaging**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
</table>

**Ultrasonography**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
</table>

**Vascular and Interventional Radiology**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>589</td>
<td>Small- and Medium-sized Hepatocellular Carcinomas: Monopolar Radiofrequency Ablation with a Multiple-Electrode Switching System—Mid-term Results</td>
<td>Sungmin Woo, Jeong Min Lee, Jeong Hee Yoon, Ijin Joo, SeHyung Kim, Jae Young Lee, Jung Hwan Yoon, Yoon Jun Kim, Joon Kos Han, and Byung Ihn Choi</td>
</tr>
</tbody>
</table>

**Diagnosis Please**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>601</td>
<td>Case 200</td>
</tr>
<tr>
<td>604</td>
<td>Case 196: Immunoglobulin G4–related Disease</td>
</tr>
</tbody>
</table>

---

16A radiology.rsna.org • *Radiology* Volume 268: Number 2—August 2013
## Communications

<table>
<thead>
<tr>
<th>Letters to the Editor</th>
<th>610</th>
<th>Abbreviations in Request Forms</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Jan M. L. Bosmans</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>610</th>
<th>Diagnostic Performance of CT Angiography in Patients with Atrial Fibrillation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bing-bing Yu, Ji-liang Zhai, and Gang Sun</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>611</th>
<th>Reply</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Jawdat Abdulla</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>611</th>
<th>Role of Biomarkers in the Diagnosis of Mild Traumatic Brain Injury</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Giuseppe Lippi and Gianfranco Cervellin</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>612</th>
<th>Reply</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yvonne W. Lui</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>612</th>
<th>Interpreting the Accuracy of Clinical Predictors of Head CT Abnormal Findings in Nontrauma Patients</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Davi J. F. Solla</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>613</th>
<th>Reply</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Xi Wang and John J. You</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Errata</th>
<th>614</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>In Memoriam</th>
<th>615</th>
<th>John M. Dennis, MD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Reuben Mezrich, MD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>616</th>
<th>Charles E. Metz, PhD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Maryellen L. Giger, PhD, and Heber MacMahon, MD</td>
</tr>
</tbody>
</table>

## Departments

<table>
<thead>
<tr>
<th>315</th>
<th>Interlude</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>24A</th>
<th>Advertisers’ Index</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>25A</th>
<th>Classified Services</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>329</th>
<th>CME Objectives and Tests</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>3A</th>
<th>This Month in Radiology</th>
</tr>
</thead>
</table>

## Content Codes

<table>
<thead>
<tr>
<th>BM</th>
<th>Head and Neck</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP</td>
<td>Health Policy</td>
</tr>
<tr>
<td>IM</td>
<td>Informatics</td>
</tr>
<tr>
<td>IR</td>
<td>Interventional Radiology</td>
</tr>
<tr>
<td>LL</td>
<td>Leadership &amp; Management</td>
</tr>
<tr>
<td>ML</td>
<td>Molecular Imaging</td>
</tr>
<tr>
<td>MS</td>
<td>Musculoskeletal Radiology</td>
</tr>
<tr>
<td>MR</td>
<td>Magnetic Resonance Imaging</td>
</tr>
<tr>
<td>MO</td>
<td>Nuclear Medicine</td>
</tr>
<tr>
<td>NR</td>
<td>Neuroradiology</td>
</tr>
<tr>
<td>OB</td>
<td>Obstetric/Gynecologic Radiology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>01</th>
<th>Oncologic Imaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>Other</td>
</tr>
<tr>
<td>PD</td>
<td>Pediatric Radiology</td>
</tr>
<tr>
<td>PH</td>
<td>Physics and Basic Science</td>
</tr>
<tr>
<td>PF</td>
<td>Professionalism</td>
</tr>
<tr>
<td>QA</td>
<td>Quality Assurance</td>
</tr>
<tr>
<td>RO</td>
<td>Radiation Oncology</td>
</tr>
<tr>
<td>RS</td>
<td>Research</td>
</tr>
<tr>
<td>US</td>
<td>Ultrasound</td>
</tr>
<tr>
<td>VA</td>
<td>Vascular Imaging</td>
</tr>
</tbody>
</table>
Contents

Science to Practice

1 Science to Practice: Periprocedural Myocardial Injury: Is There a Role for Cardiac MR Imaging?
Albert de Roos
The effects of coronary microembolization are shown in zones of preexisting acute myocardial infarction and in the border zones by using a variety of MR imaging techniques in an experimental model.
See also Saeed et al (p 98).

Reviews and Commentary

Annual Oration
4 To Disclose or Not to Disclose Radiologic Errors: Should “Patient-First” Supersede Radiologist Self-Interest?
Leonard Berlin

Editorial
9 Lung Cancer Diagnosis: Radiologic Imaging, Histology, and Genetics
Jeffrey R. Galvin and Teri J. Franks
The authors demonstrate a relationship between increasing volume of ground-glass opacity at imaging, the frequency of lepidic predominant adenocarcinomas, and a missense mutation of the epidermal growth factor receptor (EGFR); this has important implications for therapy given the clinical responsiveness of lung cancers with EGFR mutations to tyrosine kinase inhibitors.
See also Lee et al (p 254).

How I Do It
12 Breast Intervention: How I Do It
Mary C. Mahoney and Mary S. Newell
Image-guided percutaneous breast biopsy is a safe, accurate, and cost-effective method of establishing a tissue diagnosis of breast abnormalities.

Review
26 MR Imaging of Cardiac Tumors and Masses: A Review of Methods and Clinical Applications
Manish Motwani, Ananth Kidambi, Bernhard A. Herzog, Akhlaque Uddin, John P. Greenwood, and Sven Plein
A core protocol of MR sequences as described in this review allows the morphology, anatomy, tissue characteristics, and functional impact of a suspected tumor to be assessed in a single examination.

CME Feature
A CME activity is available online for the designated article. See p 25 for CME objectives.

Hear What We Think
The editor, deputy editors, and authors podcast on the importance and context of selected articles.

The cover images are from the article by Burns et al (pp 69–78).
**Continued**

**Reviews and Commentary**

<table>
<thead>
<tr>
<th>Book Reviews</th>
<th>44</th>
<th>Practical Approach to the Management and Treatment of Venous Disorders</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>45</td>
<td>Imaging of the Cervical Spine in Children, 2nd ed</td>
</tr>
</tbody>
</table>

**Original Research**

<table>
<thead>
<tr>
<th>Breast Imaging</th>
<th>46</th>
<th>Screening Mammography: Test Set Data Can Reasonably Describe Actual Clinical Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Baolin P. Soh, Warwick Lee, Mark F. McEntee, Peter L. Kench, Warren M. Reed, Rob Heard, Dev P. Chakraborty, and Patrick C. Brennan</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A reasonable level of agreement (P &lt; .01) between actual clinical reporting and test set conditions in screening mammography can be achieved when describing group performance if prior images are provided. BR</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cardiac Imaging</th>
<th>54</th>
<th>Use of Carotid Plaque Neovascularization at Contrast-enhanced US to Predict Coronary Events in Patients with Coronary Artery Disease</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Ying Zhu, You-Bin Deng, Yi-Ni Liu, Xiao-Jun Bi, Jie Sun, Qiao-Ying Tang, and Qi Deng</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The presence of contrast material enhancement of carotid plaque was a significant and independent predictor of future coronary events in patients with stable coronary artery disease. CA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Computer Applications</th>
<th>69</th>
<th>Automated Detection of Sclerotic Metastases in the Thoracolumbar Spine at CT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Joseph E. Burns, Jianhua Yao, Tatjana S. Wiese, Hector E. Muñoz, Elizabeth C. Jones, and Ronald M. Summers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>We designed and validated a computer-aided detection system that successfully automatically detects and determines the volumes of sclerotic metastases of the thoracolumbar spine on CT images. CT MK IN</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emergency Radiology</th>
<th>79</th>
<th>Optimizing Trauma Multidetector CT Protocol for Blunt Splenic Injury: Need for Arterial and Portal Venous Phase Scans</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Alexis R. Boscak, Kathirkamanathan Shammuganathan, Stuart E. Mirvis, Thorsten R. Fleiter, Lisa A. Miller, Clint W. Slikker, Scott D. Steinburg, and Melvin Alexander</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The use of arterial phase imaging increases CT sensitivity for intrasplenic pseudoaneurysms after blunt abdominal trauma but must be combined with standard portal venous phase imaging for optimal diagnosis and characterization of both active bleeding and splenic parenchymal injury; these two phases together provide optimal diagnostic performance for evaluation of splenic injury. ER CT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Experimental Studies</th>
<th>89</th>
<th>Comparison of Four Microwave Ablation Devices: An Experimental Study in ex Vivo Bovine Liver</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Rüdiger Hoffmann, HansJörg Rempp, Ludwig Erhard, Gunnar Blumenstock, Philippe L. Pereira, Claus D. Clausen, and Stephan Clasen</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Findings from our ex vivo study demonstrate that these four microwave ablation systems are capable of producing large zones of coagulation. GI</td>
</tr>
</tbody>
</table>
### Original Research CONTINUED

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coronary Microemboli Effects in Preexisting Acute Infarcts in a Swine Model: Cardiac MR Imaging Indices, Injury Biomarkers, and Histopathologic Assessment</td>
<td>98</td>
<td>MR imaging showed accentuated deterioration in left ventricular function caused by microemboli, which was linked to expansion in the microvascular obstruction zone, perfusion deficits, and myocardial damage that was small relative to the added left ventricular dysfunction. <img src="image-url" alt="MR" /></td>
<td></td>
</tr>
<tr>
<td>Outcomes of Patients with Elevated α-Fetoprotein Level and Initial Negative Findings at MR Imaging</td>
<td>109</td>
<td>This study found that a high proportion (59%) of patients with elevated α-fetoprotein levels (&gt;300 ng/mL [&gt;300 μg/L]) and initial negative findings at MR imaging were subsequently shown to have hepatocellular carcinoma after a mean interval of 138 days. <img src="image-url" alt="GI" /></td>
<td></td>
</tr>
<tr>
<td>Unreported Vertebral Body Compression Fractures at Abdominal Multidetector CT</td>
<td>120</td>
<td>The lack of routine review of the sagittal reconstructions of the lower thoracic and lumbar spine at abdominal CT results in a very low detection rate of moderate or severe vertebral compression fractures. <img src="image-url" alt="CT" /></td>
<td></td>
</tr>
<tr>
<td>Variation in Diagnostic Performance among Radiologists at Screening CT Colonography</td>
<td>127</td>
<td>We observed relatively consistent performance among radiologists interpreting results of CT colonographic examinations, especially when compared against reported data for optical colonoscopy, including a difference in the range of detection of adenomas and advanced neoplasia of less than twofold. <img src="image-url" alt="GI" /></td>
<td></td>
</tr>
<tr>
<td>Comparison of Imaging Strategies with Conditional Contrast-enhanced CT and Unenhanced MR Imaging in Patients Suspected of Having Appendicitis: A Multicenter Diagnostic Performance Study</td>
<td>135</td>
<td>This fully paired diagnostic performance study showed that MR imaging–based strategies had diagnostic accuracy equivalent to that of a conditional CT strategy in patients suspected of having acute appendicitis. <img src="image-url" alt="CT" /></td>
<td></td>
</tr>
<tr>
<td>Prostate Cancer: Can Multiparametric MR Imaging Help Identify Patients Who Are Candidates for Active Surveillance?</td>
<td>144</td>
<td>Multiparametric MR imaging is useful in stratifying patients with prostate cancer for active surveillance or active treatment in conjunction with existing guidelines. <img src="image-url" alt="GU" /></td>
<td></td>
</tr>
<tr>
<td>Section</td>
<td>Page</td>
<td>Title</td>
<td>Authors</td>
</tr>
<tr>
<td>------------------------</td>
<td>------</td>
<td>-------------------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Genitourinary Imaging</td>
<td>153</td>
<td>Evaluation of Retained Testes in Adolescent Girls and Women with Complete Androgen</td>
<td>Rola S. Nakhal, Margaret Hall-Craggs, Alex Freeman, Alex Kirkham, Gerard S. Conway, Rupali</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Insensitivity Syndrome</td>
<td>Arora, Christopher R. J. Woodhouse, Dan N. Wood, and Sarah M. Creighton</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The results of this study confirm that MR imaging can accurately depict testicular</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>findings in complete androgen insensitivity syndrome and that these findings correlate</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>well with histologic descriptions.</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal Imaging</td>
<td>161</td>
<td>Contrast-enhanced MR Imaging of Hand and Finger Joints in Patients with Early Rheumatoid</td>
<td>Claudia Schueller-Weidekamm, Klaus-Peter Lodemann, Johannes Grisar, Gerd Schueller,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Arthritis: Do We Really Need a Full Dose of Gadobenate Dimeglumine for Assessing Synovial</td>
<td>Michael Weber, Franz Kainberger, and Hannes Platzgummer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Enhancement at 3 T?</td>
<td></td>
</tr>
<tr>
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<td></td>
<td>The results of our study show that in patients with rheumatoid arthritis, it is</td>
<td></td>
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<td>possible to use only half (0.05 mmol per kilogram of body weight) the standard</td>
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</tr>
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<td>dose of gadobenate dimeglumine without a loss of most relevant diagnostic information</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>at 3-T MR imaging.</td>
<td></td>
</tr>
<tr>
<td>Neuroradiology</td>
<td>170</td>
<td>Cortical Abnormalities in Patients with Migraine: A Surface-based Analysis</td>
<td>Roberta Messina, Marla A. Rocca, Bruno Colombo, Paola Valasaina, Mark A. Horsfield,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Massimiliano Copetti, Andrea Falini, Giancarlo Comi, and Massimo Filippi</td>
</tr>
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<td>Patients with migraine experience cortical abnormalities that do not seem to be a</td>
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<td>mere consequence of repeated attacks but rather the result of a balance between an</td>
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<td>intrinsic predisposition (as suggested by cortical surface area abnormalities) and</td>
<td></td>
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<td></td>
<td></td>
<td>disease-related processes (as indicated by cortical thickness abnormalities).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>181</td>
<td>Multiple Sclerosis: White and Gray Matter Damage Associated with Balance Deficit Detected</td>
<td>Luca Prosperini, Emilia Sbardella, Eytan Raz, Mara Cercignani, Francesca Tona, Marco</td>
</tr>
<tr>
<td></td>
<td></td>
<td>at Static Posturography</td>
<td>Bozzali, Nikolaos Petsas, Carlo Pozzilli, and Patrizia Pantano</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The severity of balance impairment in patients with multiple sclerosis was associated</td>
<td></td>
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<tr>
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<td>with white matter tract damage to the cerebellar connections and hemispheres, pons,</td>
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<td>thalamus, and supratentorial associative bundles, as well as with gray matter atrophy</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>of anterior lobules of the cerebellum and lobule VIII.</td>
<td></td>
</tr>
<tr>
<td>Nuclear Medicine</td>
<td>190</td>
<td>Simultaneously Acquired MR/PET Images Compared with Sequential MR/PET and PET/CT:</td>
<td>Cornelia B. Brendle, Holger Schmidt, Sabrina Fleischer, Uli H. Braeuning, Christina A.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Alignment Quality</td>
<td>Pfannenberg, and Nina F. Schwenzer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The alignment of hybrid datasets acquired in simultaneous MR/PET is more accurate in</td>
<td></td>
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<tr>
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<td></td>
<td>all investigated abdominal organs compared with retrospective fusion, and in the</td>
<td></td>
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<tr>
<td></td>
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<td>urinary bladder compared with PET/CT; appropriate thoracic MR/PET protocols should be</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>composed of free-breathing or normal expiratory breath-hold MR.</td>
<td></td>
</tr>
<tr>
<td>Obstetric Imaging</td>
<td>200</td>
<td>Development and Validation of a Semiquantitative Brain Maturation Score on Fetal MR</td>
<td>Arastoo Vossough, Catherine Limperopoulos, Mary E. Putt, Adre J. du Plessis, Peter J.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Images: Initial Results</td>
<td>Schwab, John Wu, James C. Gee, and Daniel J. Licht</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The semiquantitative fetal total maturation score scale may be used to assess</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>morphologic brain maturity of fetuses between 25 and 35 weeks of gestational age on a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>single-case basis in a clinical setting.</td>
<td></td>
</tr>
<tr>
<td>Section</td>
<td>Page</td>
<td>Title</td>
<td>Authors</td>
</tr>
<tr>
<td>---------</td>
<td>------</td>
<td>----------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Imaging</td>
<td>208</td>
<td>Diagnostic Reference Ranges for Pediatric Abdominal CT</td>
<td>Marilyn J. Goske, Keith J. Strauss, Laura P. Coombs, Keith E. Mandel, Alexander J. Towbin, David B. Larson, Michael J. Callahan, Kassa Darge, Daniel J. Podberesky, Donald P. Frush, Sjirk J. Westra, and Jeffrey S. Prince</td>
</tr>
<tr>
<td>Imaging</td>
<td>219</td>
<td>ABR Examinations: The Why, What, and How</td>
<td>Gary J. Becker, Jennifer L. Bosma, Milton J. Guiberteau, Anthony M. Gerdeman, Donald P. Frush, and James P. Borgsteede, For the Board of Trustees of the American Board of Radiology</td>
</tr>
<tr>
<td>Imaging</td>
<td>228</td>
<td>Wireless Amplified Nuclear MR Detector (WAND) for High-Spatial-Resolution MR Imaging of Internal Organs: Preclinical Demonstration in a Rodent Model</td>
<td>Chunqi Qian, Xin Yu, Der-Yow Chen, Stephen Dodd, Nadia Bouraoud, Nikorn Pothayee, Yun Chen, Scott Beeman, Kevin Bennett, Joseph Murphy-Boesch, and Alan Koretsky</td>
</tr>
<tr>
<td>Imaging</td>
<td>228</td>
<td>Reduction of Metal Artifacts from Hip Prostheses on CT Images of the Pelvis: Value of Iterative Reconstructions</td>
<td>Fabian Morsbach, Sebastian Bickelhaupt, Guido A. Wanner, Andreas Krauss, Bernhard Schmidt, and Hatem Alkadhi</td>
</tr>
<tr>
<td>Imaging</td>
<td>245</td>
<td>Sex Difference in Normal Thymic Appearance in Adults of 20–30 Years of Age</td>
<td>Jeanne B. Ackman, Bojan Kovacina, Brett W. Carter, Carol C. Wu, Amita Sharma, Jo-Anne O. Shepard, and Elkan F. Halpern</td>
</tr>
<tr>
<td>Imaging</td>
<td>254</td>
<td>Epidermal Growth Factor Receptor Mutation in Lung Adenocarcinomas: Relationship with CT Characteristics and Histologic Subtypes</td>
<td>Hyun-Ju Lee, Young Tae Kim, Chang Hyun Kang, Binsheng Zhao, Yongqiang Tan, Lawrence H. Schwartz, Thorsten Persieth, Yoon Kyung Jeon, and Doo Hyun Chung</td>
</tr>
</tbody>
</table>

Pediatric Imaging

Original Research

Technical Developments

Thoracic Imaging
### Original Research (continued)

#### Thoracic Imaging

**Invasive Pulmonary Adenocarcinomas versus Preinvasive Lesions Appearing as Ground-Glass Nodules: Differentiation by Using CT Features**

Sang Min Lee, Chang Min Park, Jin Mo Goo, Hyun-Ju Lee, Jae Yeon Wi, and Chang Hyun Kang

In pure ground-glass nodules (GGNs), a lesion size of less than 10 mm can be a very specific discriminator of preinvasive lesions from invasive pulmonary adenocarcinomas (IPAs), and in part-solid GGNs, preinvasive lesions can be accurately distinguished from IPAs by the smaller lesion size, smaller solid proportion, nonlobulated border, and nonspiculated margin.

#### Ultrasonography

**Thyroid Nodules with Initially Nondiagnostic Cytologic Results: The Role of Core-Needle Biopsy**

Jin Sun Yoon, Jung Hwan Baek, Hyun Kyung Lim, Eun Ju Ha, Jae Kyun Kim, Dong Eun Song, Tae Yong Kim, and Jeong Hyun Lee

Core-needle biopsy seems to be a promising diagnostic tool for patients with nondiagnostic fine-needle aspiration results.

#### Vascular and Interventional Radiology

**Gastric Varices and Hepatic Encephalopathy: Treatment with Vascular Plug and Gelatin Sponge–assisted Retrograde Transvenous Obliteration—A Primary Report**

Dong Il Gwon, Gi-Young Ko, Hyun-Ki Yoon, Kyu-Bo Sung, Jin Hyoun Kim, Ji Hoon Shin, Heung Kyu Ko, and Ho-Young Song

Vascular plug–assisted retrograde transvenous obliteration is technically simple and safe and seems to be clinically effective for the treatment of gastric varices and hepatic encephalopathy.

**Split-Dose Technique for FDG PET/CT–guided Percutaneous Ablation: A Method to Facilitate Lesion Targeting and to Provide Immediate Assessment of Treatment Effectiveness**


The use of a split-dose technique for percutaneous ablation with fluorine 18 fluoro-deoxyglucose (FDG) PET guidance facilitates targeting of FDG-avid lesions and may provide confirmation of treatment effectiveness.

### Diagnosis Please

**Case 199**

Gail Yarmish and Jason DiPocé

**Case 195: Chondrosarcoma of the Posterior Mediastinum**

Farbod Nasser, Geraldine J. Chen, and Arun C. Nachiappan

Although chondrosarcoma is rare in the spine, it should be considered when there is a ring and arc appearance of calcifications within adjacent bone and heterogeneous high T2 signal intensity within a paraspinal mass.
## Communications

### Letters to the Editor

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>304</td>
<td>Diagnostic Accuracy of CT Angiography, Intravascular US, and Optical Frequency Domain Imaging in the Differentiation of Advanced Coronary Plaques</td>
<td>Bing-bing Yu, Ji-liang Zhai, and Gang Sun</td>
</tr>
<tr>
<td></td>
<td>Reply</td>
<td>Pál Maurovich-Horvat, Christopher L. Schlett, and Udo Hoffmann</td>
</tr>
<tr>
<td>305</td>
<td>Measurement of Solid Component in Part-Solid Lesions with a Mediastinal Window Setting?</td>
<td>Juan Arenas-Jiménez</td>
</tr>
<tr>
<td>306</td>
<td>Management of Part-Solid Nodules</td>
<td>Sebastien Bommart, Helene Vernhet Kovacsik, and Jean Louis Pujol</td>
</tr>
<tr>
<td></td>
<td>Reply</td>
<td>Heber MacMahon, Alexander A. Bankier, and David P. Naidich</td>
</tr>
</tbody>
</table>

### Erratum

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>307</td>
<td>Erratum</td>
</tr>
</tbody>
</table>

### In Memoriam

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>308</td>
<td>Erratum</td>
<td>Stewart R. Reuter, MD, JD</td>
</tr>
</tbody>
</table>

## Departments

- **8** Interlude
- **26A** Advertisers’ Index
- **20A** Business Information
- **27A** Classified Services
- **25** CME Objectives and Tests
- **3A** This Month in *Radiology*

## Content Codes

<table>
<thead>
<tr>
<th>Codes</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>BQ</td>
<td>Biomarkers/Quantitative Imaging</td>
</tr>
<tr>
<td>BB</td>
<td>Breast (Imaging and Interventional)</td>
</tr>
<tr>
<td>CA</td>
<td>Cardiac Radiology</td>
</tr>
<tr>
<td>CB</td>
<td>Chest Radiology</td>
</tr>
<tr>
<td>CT</td>
<td>Computed Tomography</td>
</tr>
<tr>
<td>DM</td>
<td>Digital Mammography</td>
</tr>
<tr>
<td>ED</td>
<td>Education</td>
</tr>
<tr>
<td>ER</td>
<td>Emergency Radiology</td>
</tr>
<tr>
<td>GS</td>
<td>Gastrointestinal Radiology</td>
</tr>
<tr>
<td>GS</td>
<td>General</td>
</tr>
<tr>
<td>GS</td>
<td>Genitourinary Radiology</td>
</tr>
<tr>
<td>HH</td>
<td>Head and Neck</td>
</tr>
<tr>
<td>HP</td>
<td>Health Policy</td>
</tr>
<tr>
<td>IT</td>
<td>Informatics</td>
</tr>
<tr>
<td>IR</td>
<td>Interventional Radiology</td>
</tr>
<tr>
<td>LM</td>
<td>Leadership &amp; Management</td>
</tr>
<tr>
<td>MS</td>
<td>Molecular Imaging</td>
</tr>
<tr>
<td>MX</td>
<td>Musculoskeletal Radiology</td>
</tr>
<tr>
<td>MB</td>
<td>Magnetic Resonance Imaging</td>
</tr>
<tr>
<td>DM</td>
<td>Nuclear Medicine</td>
</tr>
<tr>
<td>NS</td>
<td>Neuroradiology</td>
</tr>
<tr>
<td>OB</td>
<td>Obstetric/Gynecologic Radiology</td>
</tr>
<tr>
<td>QT</td>
<td>Oncologic Imaging</td>
</tr>
<tr>
<td>QT</td>
<td>Other</td>
</tr>
<tr>
<td>PD</td>
<td>Pediatric Radiology</td>
</tr>
<tr>
<td>PH</td>
<td>Physics and Basic Science</td>
</tr>
<tr>
<td>PF</td>
<td>Professionalism</td>
</tr>
<tr>
<td>QA</td>
<td>Quality Assurance</td>
</tr>
<tr>
<td>RO</td>
<td>Radiation Oncology</td>
</tr>
<tr>
<td>RS</td>
<td>Research</td>
</tr>
<tr>
<td>US</td>
<td>Ultrasound</td>
</tr>
<tr>
<td>VA</td>
<td>Vascular Imaging</td>
</tr>
</tbody>
</table>
EDITORIALS

Spread the Word About the Journal in 2013: From Citation Manipulation to Invalidation of Patient-Reported Outcomes Measures to Renaming the Clara Cell to New Journal Features
Richard S. Irwin; Nicki Augustyn; Cynthia T. French; Jean Rice; Victoria Tedeschi; Stephen J. Welch; on behalf of the Editorial Leadership Team

Ultrasound Corner: Announcing a New Video-Based Ultrasound Series
Seth J. Koenig
>> See article, page e1

More Pearls Afoot
John E. Heffner; Steven A. Sahn; Susan M. Harding

A Difference Is a Difference if It Makes a Difference
Don Eugene Detmer; Karen S. Rheuban
>> See article, page 19

Noninvasive Ventilatory Support in Obesity Hypoventilation Syndrome: Backup Early and Often?
Lee K. Brown
>> See article, page 37

Volumetric Optical Frequency Domain Imaging: Building a New Lexicon
Dani S. Zander
>> See article, page 64

Second Opinion
Rob Rogers

COMMENTARY

Change in Sweat Chloride as a Clinical End Point in Cystic Fibrosis Clinical Trials: The Ivacaftor Experience
Anthony G. Durmowicz; Kimberly A. Witzmann; Curtis J. Rosebraugh; Badrul A. Chowdhury

ORIGINAL RESEARCH

CRITICAL CARE

The Costs of Critical Care Telemedicine Programs: A Systematic Review and Analysis
Gaurav Kumar; Derik M. Falk; Robert S. Bonello; Jeremy M. Kahn; Eli Perencevich; Peter Cram
>> See editorial, page 7

Neurally Adjusted Ventilatory Assist vs Pressure Support Ventilation for Noninvasive Ventilation During Acute Respiratory Failure: A Crossover Physiologic Study
Pierre-Marie Bertrand; Emmanuel Futier; Yannael Coisel; Stefan Matecki; Samir Jaber; Jean-Michel Constantin

SLEEP DISORDERS

Impact of Different Backup Respiratory Rates on the Efficacy of Noninvasive Positive Pressure Ventilation in Obesity Hypoventilation Syndrome: A Randomized Trial
Olivier Contal; Dan Adler; Jean-Christian Borel; Fabrice espa; Stephen Perrig; Daniel Rodenstein; Jean-Louis Pépin; Jean-Paul Janssens
>> See editorial, page 8

High Occurrence of Hypoxic Sleep Respiratory Disorders in Precapillary Pulmonary Hypertension and Mechanisms
Fadia Nicolas Jilwan; Pierre Escourrou; Gilles Garcia; Xavier Jais; Marc Humbert; Gabriel Roisman
Patent Foramen Ovale in Severe Obstructive Sleep Apnea: Clinical Features and Effects of Closure
Zarrin F. Shaikh; Jay Jaye; Neil Ward; Atul Malhotra; Manuel de Villa; Michael I. Polkey; Michael J. Mullen; Mary J. Marrell

INTERVENTIONAL PULMONOLOGY
Volumetric Optical Frequency Domain Imaging of Pulmonary Pathology With Precise Correlation to Histopathology
Lida P. Hariri; Matthew B. Applegate; Mari Mino-Kenudson; Eugene J. Mark; Benjamin D. Medoff; Andrew D. Luster; Brett E. Bouna; Guillermo J. Tearney; Melissa J. Suter

Safety of Pacemakers and Defibrillators in Electromagnetic Navigation Bronchoscopy
Ahmed Y. Khan; David Berkowitz; William S. Krimsy; D. Kyle Hogarth; Christopher Parks; Rabih Bechara

COPD
Association Between Antibiotic Treatment and Outcomes in Patients Hospitalized With Acute Exacerbation of COPD Treated With Systemic Steroids
Mihaela S. Stefan; Michael B. Rothberg; Meng-Shiou Shieh; Penelope S. Pekow; Peter K. Lindenauer

Left Ventricular Hypertrophy in COPD Without Hypoxemia: The Elephant in the Room?
William J. Anderson; Brian J. Lipworth; Sushma Rekhraj; Allan D. Struthers; Jacob George

Expression of the Atypical Chemokine Receptor D6 in Human Alveolar Macrophages in COPD
Erica Bazzan; Marina Saetta; Graziella Turato; Elena M. Borroni; Cinzia Cancelleri; Simonetta Baraldo; Benedetta Savina; Fiorella Calabrese; Andrea Ballarin; Elisabetta Balestro; Alberto Mantovani; Manuel G. Cosio; Raffaella Bonecchi; Massimo Locati

ASTHMA
Normal Values and Thresholds for the Clinical Interpretation of Exhaled Nitric Oxide Levels in the US General Population: Results from the National Health and Nutrition Examination Survey 2007-2010
Kay Choong See; David C. Christiani

Disagreement Among Common Measures of Asthma Control in Children
Robin J. Green; Max Klein; Piet Becker; Andrew Halkas; Humphrey Lewis; Omolemo Kitchin; Teshni Moodley; Reflooe Masekela

LUNG CANCER
The Association Between Smoking Quantity and Lung Cancer in Men and Women
Helen A. Powell; Barbara Iyen-Omofoman; Richard B. Hubbard; David R. Baldwin; Laila J. Tata

Reassessment of Declines in Pulmonary Function \( \geq 1 \) Year After Stereotactic Body Radiotherapy
Atsuya Takeda; Tatsuji Enomoto; Naoko Sanuki; Hiroshi Handa; Yousuke Aoki; Yohei Oku; Etsuo Kunieda

A Clinical Prognostic Model for the Identification of Low-Risk Patients With Acute Symptomatic Pulmonary Embolism and Active Cancer
Paul L. den Exter; Vicente Gómez; David Jiménez; Javier Trujillo-Santos; Alfonso Muriel; Menno V. Huisman; Manuel Monreal; for the Registro Informatizado de la Enfermedad TromboEmbolica (RIETE) Investigators

Histologic Assessment of Tumor-Associated CD45\(^+\) Cell Numbers Is an Independent Predictor of Prognosis in Small Cell Lung Cancer
Wei Wang; Philip Hodkinson; Fiona McLaren; Melanie J. Mackean; Linda Williams; Sarah E. M. Howie; William A. H. Wallace; Tariq Sethi
CHEST INFECTIONS
Bacterial Bronchitis Caused by *Streptococcus pneumoniae* and Nontypable *Haemophilus influenzae* in Children: The Impact of Vaccination
Kostas N. Priftis; David Litt; Sapna Manglani; Michael B. Anthracopoulos; Keith Thickett; Georgina Tzanakaki; Patricia Fenton; George A Syrogiannopoulos; Aliki Vogiatzi; Konstantinos Douros; Mary Slack; Mark L. Everard

DISORDERS OF THE PLEURA
Thoracic Duct Embolization for Nontraumatic Chylous Effusion: Experience in 34 Patients
Gregory J. Nadolski; Maxim Itkin

High Risk of Malignant Mesothelioma and Pleural Plaques in Subjects Born Close to Ophiolites
Mehmet Bayram; Isa Dongel; Nur Dilek Bakan; Hüseyin Yalçın; Ruhije Cevit; Pascal Dumortier; Benoit Nemery

IMAGING
Natural History of Pure Ground-Glass Opacity Lung Nodules Detected by Low-Dose CT Scan
Boksoon Chang; Jung Hye Hwang; Yoon-Ho Choi; Man Pyo Chung; Hojoong Kim; O Jung Kwon; Ho Yun Lee; Kyung Soo Lee; Young Mag Shim; Joungho Han; Sang-Won Um

CARDIOVASCULAR DISEASE
Predictive Value of the HAS-BLED and ATRIA Bleeding Scores for the Risk of Serious Bleeding in a "Real-World" Population With Atrial Fibrillation Receiving Anticoagulant Therapy
Vanessa Roldán; Francisco Marín; Hermógenes Fernández; Sergio Manzano-Fernández; Pilar Gallego; Mariano Valdés; Vicente Vicente; Gregory Y. H. Lip

PULMONARY VASCULAR DISEASE
Demographics and Outcomes of Patients Diagnosed With Pulmonary Hypertension With Pulmonary Capillary Wedge Pressures 16 to 18 mm Hg: Insights From the REVEAL Registry
Adaani E. Frost; Harrison W. Farber; Robyn J. Barst; Dave P. Miller; C. Gregory Elliott; Michael D. McGoon

TRANSLATING BASIC RESEARCH INTO CLINICAL PRACTICE
The Influence of Cigarette Smoking on Viral Infections: Translating Bench Science to Impact COPD Pathogenesis and Acute Exacerbations of COPD Clinically
Carla M. T. Bauer; Mathieu C. Morissette; Martin R. Stämpfli

AHEAD OF THE CURVE
Cystic Fibrosis Therapeutics: The Road Ahead
Lucas R. Hoffman; Bonnie W. Ramsey

RECENT ADVANCES IN CHEST MEDICINE
Staffing in ICUs: Physicians and Alternative Staffing Models
Allan Garland; Hayley B. Gershengorn

MEDICAL ETHICS
Five Myths of Medical Malpractice
David A. Hyman; Charles Silver
TOPICS IN PRACTICE MANAGEMENT

Order Sets in Electronic Health Records: Principles of Good Practice
John D. McGreevey III

SELECTED REPORTS

Bullous Pemphigoid With the Unusual Complication of Tracheobronchial Involvement
Martina Bonifazi; Lina Zuccatosta; Grazia Poidomani; Renzo Ranaldi; Stefano Gasparini

Bronchoscopic Removal of a Large Intracavitary Pulmonary Aspergilloma
David R. Stather; Alain Tremblay; Paul MacEachern; Alex Chee; Elaine Dumoulin; Olga Tourin; Gary A. Gelfand;
Christopher H. Mody

POSTGRADUATE EDUCATION CORNER

CONTEMPORARY REVIEWS IN SLEEP MEDICINE

Sleep Medicine Pharmacotherapeutics Overview: Today, Tomorrow, and the Future (Part 2: Hypersomnia,
Parasomnia, and Movement Disorders)
Seema Gulyani; Rachel E. Salas; Charlene E. Gamaldo

CHEST IMAGING AND PATHOLOGY FOR CLINICIANS

Diffuse Reticulonodular Shadows: A Rare Manifestation of a Rare Disease
Gin Tsen Chai; Gregory Kaw; Khoon Leong Chuah; Khai Pang Leong; Cynthia Bin-Eng Chee

PULMONARY, CRITICAL CARE, AND SLEEP PEARLS

Enlarging Lung Nodules and Cysts in a 53-Year-Old Woman With Primary Sjögren Syndrome
Elizabeth M. Kluka; Philippe R. Bauer; Marie Christine Aubry; Jay H. Ryu

A 51-Year-Old Man With Recurrent Bacteremia and Acute Neurologic Symptoms After Being Treated for
Presumptive Endocarditis
David Lalezari; Jasminka M. Criley; Nikhil Kapoor; Chester Choi; Alexander Stein

ULTRASOUND CORNER

ONLINE ONLY Shock: A Case of Mistaken Identity
Seth J. Koenig; Mangala Narasimhan; Paul H. Mayo

>> Access the article at: http://dx.doi.org/10.1378/chest.12-2878
>> See editorial, page 4

PECTORILOQUY

Free Thinking
Christopher J. Worsnop

How I Came To Solve Millennia Old Epistemological Problems Live Simply By The Numbers And Control
My Eating
Matthew Stuart Sisson
CORRESPONDENCE

Sensitivity of Point-of-Care Ultrasonography for Common Thoracic Injuries
David C. Mackenzie; Andrew S. Liteplo; Vicki E. Noble
Response—Jean-François Payen; Christophe Broux; Anne-Claire Hyacinthe; Pierre Bouzat

Arterial Line or Cuff BP?
Daniel Horowitz; Yaw Amoateng-Adjepong; Stuart Zarich; Allan Garland; Constantine A. Manthous

Peri-Lung Transplant Renal Issues in Patients With Cystic Fibrosis
Oisin J. O’Connell; Michael J. Harrison; Desmond M. Murphy; William D. Plant; Barry J. Plant
Response—Bradley S. Quon; Nicole Mayer-Hamblett; Moira L. Aitken; Christopher H. Goss

Diastolic Dysfunction With Nondilated Left Atrium
Eduard Claver; Noelia Cubero; Àngel R. Cequier
Response—Adriano R. Tonelli; Raed A. Dweik

Can Omalizumab Be Effective in Chronic Eosinophilic Pneumonia?
Christian Domingo; Xavier Pomares
Response—Hatice Kaya; Seyfettin Gümüş; Ergun Uçar; Mehmet Aydoğan; Uğur Muşabak; Ergun Tozkoparan; Hayati Bilgiç

Weekend Effect for Pulmonary Embolism and Other Acute Cardiovascular Diseases
Roberto Manfredini; Raffaella Salmi; Massimo Gallerani
Response—Rahul Nanchal; Jeff Whittle; Gagan Kumar

Does Spirometry Still Measure Up in the Diagnosis of COPD?
Wouter D. van Dijk
Response—Firdaus A. A. Mohamed Hoesein; Pieter Zanen

Obstructive Sleep Apnea Is Associated With Increased High-Sensitivity Cardiac Troponin T Levels
Edgar Argulian
Response—Anna Randby; Virend K. Somers; Torbjørn Omland

Consider Talc Too in Poorly Controlled Asthma and Unexplained Bronchiolitis
Andrew R. L. Medford

Premature Termination of Life Is Not Palliative Care
Andre Van Mol
Response—Kathryn L. Tucker

Acute Exacerbations of COPD: Will On-Call Physiotherapy Allow for Early Rehabilitation?
Abraham Samuel Bobu
Response—Kylie Hill; Roger S. Goldstein

Endobronchial Ultrasound Needle Biopsy With and Without Aspiration: The “Core” Issue
Karan Madan; Randeep Guleria
Response—Roberto F. Casal; Gregg A. Staerkel; Rodolfo C. Morice
EDITORIALS

Solvitur Ambulando…or Maybe Not?
Stephen C. Mathai
>> See article, page 315

Preparing for the Unexpected: Lessons Learned About Respiratory Infection From the Japanese Tsunami of 2011
Michael S. Niederman
>> See article, page 349

The Quality of Dying and Death: Is It Ready for Use as an Outcome Measure?
J. Randall Curtis; Lois Downey; Ruth A. Engelberg
>> See article, page 357

Home Sleep Testing for Obstructive Sleep Apnea: One Night Is Enough!
Naresh M. Punjabi; R. Nisha Aurora; Susheel P. Patil
>> See article, page 539

SECOND OPINION

Telemedicine
Rob Rogers

POINT/COUNTERPOINT EDITORIALS

Point: Should Systemic Lytic Therapy Be Used for Submassive Pulmonary Embolism? Yes
David Jiménez

Counterpoint: Should Systemic Lytic Therapy Be Used for Submassive Pulmonary Embolism? No
Kathryn L. Bilello; Susan Murin

Rebuttal From Dr Jiménez
David Jiménez

Rebuttal From Drs Bilello and Murin
Kathryn L. Bilello; Susan Murin

COMMENTARY

Epidemic of Lung Cancer in Patients With HIV Infection
Tiffany A. Winstone; S. F. Paul Man; Mark Huff; Julio S. Montaner; Don D. Sin

ORIGINAL RESEARCH

PULMONARY VASCULAR DISEASE

Baseline and Follow-up 6-min Walk Distance and Brain Natriuretic Peptide Predict 2-Year Mortality in Pulmonary Arterial Hypertension
Jason S. Fritz; Christiana Blair; Ronald J. Oudiz; Christopher Dufton; Horst Olschewski; Darrin Despain; Hunter Gillies; Steven M. Kawut
>> See editorial, page 285

Contemporary Trends in the Diagnosis and Management of Pulmonary Arterial Hypertension: An Initiative to Close the Care Gap
Valerie V. McLaughlin; Anatoly Langer; Mary Tan; Philip J. Clements; Ronald J. Oudiz; Victor F. Tapson; Richard N. Channick; Lewis J. Rubin; for the Pulmonary Arterial Hypertension-Quality Enhancement Research Initiative (PAH-QuERI) Investigators

>> See editorial, page 324
<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEST CONTENTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BENEFITS OF INTENSIVE TREADMILL EXERCISE</td>
<td>Benefits of Intensive Treadmill Exercise Training on Cardiorespiratory Function and Quality of</td>
<td>333</td>
</tr>
<tr>
<td>TRAINING ON CARDIORESPIRATORY FUNCTION AND</td>
<td>Life in Patients With Pulmonary Hypertension</td>
<td></td>
</tr>
<tr>
<td>QUALITY OF LIFE</td>
<td>Leighton Chan; Lisa M. K. Chin; Michelle Kennedy; Joshua G. Woolstenhulme; Steven D. Nathan;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ali A. Weinstein; Gerilyn Connors; Nargues A. Weir; Bart Drinkard; James Lamberti; Randall E.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Keyser</td>
<td></td>
</tr>
<tr>
<td>FREQUENCY OF MEDIASTINAL LYMPHADENOPATHY IN</td>
<td>Frequency of Mediastinal Lymphadenopathy in Patients With Idiopathic Pulmonary Arterial</td>
<td>344</td>
</tr>
<tr>
<td>PATIENTS WITH IDIOPATHIC PULMONARY ARTERIAL</td>
<td>Hypertension</td>
<td></td>
</tr>
<tr>
<td>HDFAN PHONETISATION</td>
<td>Teng Moua; David L. Levin; Eva M. Carmona; Jay H. Ryu</td>
<td></td>
</tr>
<tr>
<td>CHEST INFECTIONS</td>
<td>Characteristics of Infectious Diseases in Hospitalized Patients During the Early Phase After the</td>
<td>349</td>
</tr>
<tr>
<td></td>
<td>2011 Great East Japan Earthquake: Pneumonia as a Significant Reason for Hospital Care</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tetsuji Aoyagi; Mitsuhiro Yamada; Hiroyuki Kunishima; Koichi Tokuda; Hisakazu Yano; Noriomi</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ishibashi; Masamitsu Hatta; Shiro Endo; Kazuaki Arai; Shinya Inomata; Yoshiaki Gu; Hajime</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kanamori; Miho Kitagawa; Yoichi Hirakata; Mitsuo Kaku</td>
<td></td>
</tr>
<tr>
<td>CRITICAL CARE</td>
<td>Perception by Family Members and ICU Staff of the Quality of Dying and Death in the ICU: A</td>
<td>357</td>
</tr>
<tr>
<td></td>
<td>Prospective Multicenter Study in The Netherlands</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rik T. Gerritsen; José G. M. Hofhuis; Matty Koopmans; Meta van der Woude; Laura Bormans; Aly</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hovingh; Peter E. Spronk</td>
<td></td>
</tr>
<tr>
<td>CRITICAL CARE</td>
<td>The Use of Bioreactance and Carotid Doppler to Determine Volume Responsiveness and Blood Flow</td>
<td>364</td>
</tr>
<tr>
<td></td>
<td>Redistribution Following Passive Leg Raising in Hemodynamically Unstable Patients</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Paul E. Marik; Alex Levitov; Alisha Young; Lois Andrews</td>
<td></td>
</tr>
<tr>
<td>CRITICAL CARE</td>
<td>Tripeptide feG Prevents and Ameliorates Acute Pancreatitis-Associated Acute Lung Injury in a</td>
<td>371</td>
</tr>
<tr>
<td></td>
<td>Rodent Model</td>
<td></td>
</tr>
<tr>
<td>CRITICAL CARE</td>
<td>Alison S. F. Elder; Andrew D. Bersten; Gino T. P. Saccone; Dani-Louise Dixon</td>
<td></td>
</tr>
<tr>
<td>COPD</td>
<td>Pancreatic Stone Protein Predicts Positive Sputum Bacteriology in Exacerbations of COPD</td>
<td>379</td>
</tr>
<tr>
<td></td>
<td>Andreas Scherr; Rolf Graf; Martha Bain; Mirjam Christ-Crain; Beat Müller; Michael Tamm; Daiana</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stolz</td>
<td></td>
</tr>
<tr>
<td>COPD</td>
<td>Serum Heavy Metals and Obstructive Lung Disease: Results From the National Health and Nutrition</td>
<td>388</td>
</tr>
<tr>
<td></td>
<td>Examination Survey</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Haala K. Rokadia; Shikhar Agarwal</td>
<td></td>
</tr>
<tr>
<td>ASTHMA</td>
<td>Pancreatic Stone Protein Predicts Positive Sputum Bacteriology in Exacerbations of COPD</td>
<td>379</td>
</tr>
<tr>
<td></td>
<td>Andreas Scherr; Rolf Graf; Martha Bain; Mirjam Christ-Crain; Beat Müller; Michael Tamm; Daiana</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stolz</td>
<td></td>
</tr>
<tr>
<td>ASTHMA</td>
<td>Serum Heavy Metals and Obstructive Lung Disease: Results From the National Health and Nutrition</td>
<td>388</td>
</tr>
<tr>
<td></td>
<td>Examination Survey</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Haala K. Rokadia; Shikhar Agarwal</td>
<td></td>
</tr>
<tr>
<td>COPD</td>
<td>Pancreatic Stone Protein Predicts Positive Sputum Bacteriology in Exacerbations of COPD</td>
<td>379</td>
</tr>
<tr>
<td></td>
<td>Andreas Scherr; Rolf Graf; Martha Bain; Mirjam Christ-Crain; Beat Müller; Michael Tamm; Daiana</td>
<td></td>
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<tr>
<td></td>
<td>Stolz</td>
<td></td>
</tr>
<tr>
<td>COPD</td>
<td>Serum Heavy Metals and Obstructive Lung Disease: Results From the National Health and Nutrition</td>
<td>388</td>
</tr>
<tr>
<td></td>
<td>Examination Survey</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Haala K. Rokadia; Shikhar Agarwal</td>
<td></td>
</tr>
<tr>
<td>INTERVENTIONAL PULMONOLOGY</td>
<td>Using Thoracic Ultrasonography to Accurately Assess Pneumothorax Progression During Positive</td>
<td>415</td>
</tr>
<tr>
<td></td>
<td>Pressure Ventilation: A Comparison With CT Scanning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nils Petter Oveland; Hans Morten Lossius; Kristian Wemmelund; Paul Johan Stokkeland; Lars</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Knudsen; Erik Sloth</td>
<td></td>
</tr>
</tbody>
</table>
Training for Linear Endobronchial Ultrasound Among US Pulmonary/Critical Care Fellowships: A Survey of Fellowship Directors
Nichole T. Tanner; Nicholas J. Pastis; Gerard A. Silvestri

423

LUNG CANCER

Use of New Treatment Modalities for Non-small Cell Lung Cancer Care in the Medicare Population
Michael T. Vest; Jeph Herrin; Pamela R. Soulos; Roy H. Decker; Lynn Tanoue; Gaetane Michaud; Anthony W. Kim; Frank Detterbeck; Daniel Morgensztern; Cary P. Gross

429

Characteristics of Subsolid Pulmonary Nodules Showing Growth During Follow-up With CT Scanning
Haruhisa Matsuguma; Kiyoshi Mori; Rie Nakahara; Haruko Suzuki; Takashi Kasai; Yukari Kamiyama; Seiji Igarashi; Tetsuro Kodama; Kohei Yokoi

436

OCCUPATIONAL AND ENVIRONMENTAL LUNG DISEASES

Oxidative-Nitrosative Stress and Systemic Vascular Function in Highlanders With and Without Exaggerated Hypoxemia
Damian M. Bailey; Stefano F. Rimoldi; Emrush Rexhaj; Lorenza Pratali; Carlos Salinas Salmons; Mercedes Villena; Jane McEneny; Ian S. Young; Pascal Nicod; Yves Allemann; Urs Scherrer; Claudio Sartori

444

Statins Reduce Ambient Particulate Matter-Induced Lung Inflammation by Promoting the Clearance of Particulate Matter < 10 μm From Lung Tissues
Ryohei Miyata; Ni Bai; Renaud Vincent; Don D. Sin; Stephan F. Van Eeden

452

DIFFUSE LUNG DISEASE

Nicotine Treatment Improves Toll-Like Receptor 2 and Toll-Like Receptor 9 Responsiveness in Active Pulmonary Sarcoidosis
Mark W. Julian; Guohong Shao; Larry S. Schlesinger; Qin Huang; David G. Cosmar; Nitin Y. Bhatt; Daniel A. Culver; Robert P. Baughman; Karen L. Wood; Elliott D. Crouser

461

PULMONARY PHYSIOLOGY

Corrected End-Tidal P CO 2 Accurately Estimates Paco 2 at Rest and During Exercise in Morbidly Obese Adults
Vipa Bernhardt; Santiago Lorenzo; Tony G. Babbs; Gerald S. Zavorsky

471

The Impact of Sickle Cell Disease on Exercise Capacity in Children
Rifat A. Chaudry; Andrew Bush; Mark Rosenthal; Suzanne Crowley

478

GENETIC AND DEVELOPMENTAL DISORDERS

Benefits of Neuromuscular Electrical Stimulation Prior to Endurance Training in Patients With Cystic Fibrosis and Severe Pulmonary Dysfunction
Isabelle Vivodtzev; Nicolas Decorte; Bernard Wuytens; Nicolas Gonnet; Isabelle Durieu; Patrick Levy; Jean-Luc Cracowski; Claire Cracowski

485

TRANSLATING BASIC RESEARCH INTO CLINICAL PRACTICE

T Helper 17 Cells in Airway Diseases: From Laboratory Bench to Bedside
Rabih Halwan; Saleh Al-Muhsen; Qutayba Hamid

494

RECENT ADVANCES IN CHEST MEDICINE

Immunobiology of Influenza Vaccines
Margarita M. Gomez Lorenzo; Matthew J. Fenton

502
SPECIAL FEATURES

ASTHMA
The Poorly Explored Impact of Uncontrolled Asthma
Paul M. O’Byrne; Søren Pedersen; Michael Schatz; Anders Thoren; Ella Ekholm; Lars-Göran Carlsson; William W. Busse

GLOBAL MEDICINE
Health Care in China: Improvement, Challenges, and Reform
Chen Wang; Keqin Rao; Sinan Wu; Qian Liu

PATIENT SAFETY FORUM
Ultrasound Guidance Decreases Complications and Improves the Cost of Care Among Patients Undergoing Thoracentesis and Paracentesis
Catherine J. Mercaldi; Stephan F. Lanes

TOPICS IN PRACTICE MANAGEMENT
Coding and Billing for Home (Out-of-Center) Sleep Testing
Michael E. Nelson
>> See editorial, page 291

SELECTED REPORTS
Massive Pulmonary Emboli in Children: Does Fiber-optic-Guided Embolectomy Have a Role? Review of the Literature and Report of Two Cases
Zeev Motti Eini; Sion Houri; Ilan Cohen; Raheli Sion; Akiva Tamir; Lior Sasson; Avigdor Mandelberg
An Occult Congenital Fistula Between the Descending Aorta and the Left Pulmonary Vein in an Adult Presenting With Recurrent Episodes of Hemoptysis
Yijie Hu; Qianjin Zhong; Zhiping Li; Jianming Chen; Cheng Shen; Yi Song

POSTGRADUATE EDUCATION CORNER
CONTEMPORARY REVIEWS IN SLEEP MEDICINE
Cognitive Behavioral Treatment of Insomnia
Jacob Williams; Alicia Roth; Karlyn Vatthauer; Christina S. McCrae

PULMONARY, CRITICAL CARE, AND SLEEP PEARLS
A 56-Year-Old Man With Undifferentiated Fever in the ICU and Endobronchial Plaques
Rommel C. Del Rosario; Ruba A. Halloush; Faisal A. Khasawneh
An 82-Year-Old Woman With Progressive Dyspnea and Bilateral Infiltrates
Matthew Koslow; Stephen Raskin; Yechezkel Sidi; Issahar Ben-Dov; Michael J. Segel

ULTRASOUND CORNER
ONLINE ONLY Sliding to Safety
Clarisse J. Glen; Samuel O. Acquah; Pierre Kory
>> Access the article at: http://dx.doi.org/10.1378/chest.12-2981
PECTORILOQUY

Mint Condition
Ronald Francis Smits 575

Custodial
Donna Doyle 575

Money Can’t Buy…
Jacob Michael Dilorio 576

CORRESPONDENCE

The Value of CT Scan-Guided Biopsy in Evaluation of Ground-Glass Opacity
Qinghuan Liu; Wenjie Liang 577
Response—Boksoon Chang; Sang-Won Um

Thoracic Duct Embolization, Unexplained Thoracic Duct Occlusions, and Lymphatic Anomalies
Juan Carlos López-Gutiérrez 578
Response—Maxim Itkin; Gregory J. Nadolski

Arrhythmias in COPD: Consider P-Wave Dispersion and Pulmonary Hypertension, Too
Andrew R. L. Medford 579
Response—Machelle Wilchesky; Pierre Ernst; James M. Brophy; Robert W. Platt; Samy Suissa

Educating the Adolescent and Young Adult With Cystic Fibrosis About Their Reproductive Risks and Options
Milner Owens Staub; Kevin Leon; Nathaniel H. Robin 580

No Closure for Patent Foramen Ovale in Obstructive Sleep Apnea?
Stephen Paul Hoole; Bushra Rana; Leonard M. Shapiro; Michael Davies 581
Response—Zarrin F. Shaikh; Michael I. Polkey; Michael J. Mullen; Mary J. Morrell

Pharmacotherapy Refractory Insomnia in Soldiers With Traumatic Brain Injury
Vincent Mysliwiec; Bernard Roth 582
Response—MAJ Jacob F. Collein; LTC Christopher J. Lettieri

Randomized Trials and Bronchoscopy
Michael K. Gould 584
Response—Roberto F. Casal; Carlos A. Jimenez; Graciela M. Nogueras-Gonzalez; Rodolfo C. Morice

NEW! Find this month’s Ultrasound Corner, the online-only case-based video series, on the CHEST website. http://dx.doi.org/10.1378/chest.12-2981.
EDITORIALS

Chronic Cough and Gastroesophageal Reflux Disease: How Do We Establish a Causal Link?
Michael F. Vaezi
>> See article, page 605

Preventing DVT in Peripherally Inserted Central Catheters
Samuel Z. Goldhaber
>> See article, page 627

Probiotics for Ventilator-Associated Pneumonia: The Need for a Large, Multicenter, Randomized Controlled Trial
Anthony F. Boyer; Marin H. Kollef
>> See article, page 646

Lumps, Bumps, Spots, and Shadows: The Scary World of the Solitary Pulmonary Nodule
Gerard A. Silvestri
>> See article, page 672

Who Will Care for Our Critically Ill?
Scott Manaker
>> See articles, pages 847 and 851

SECOND OPINION

Superbugs
Rob Rogers

POINT/COUNTERPOINT EDITORIALS

Point: Should Epidermal Growth Factor Receptor Mutations Be Routinely Tested for in Patients With Lung Cancer? Yes
Daniel H. Sterman

Counterpoint: Should Epidermal Growth Factor Receptor Mutations Be Routinely Tested for in Patients With Lung Cancer? No
David C. L. Lam

Rebuttal From Dr Sterman
Daniel H. Sterman

Rebuttal From Dr Lam
David C. L. Lam

ORIGINAL RESEARCH

SIGNS AND SYMPTOMS OF CHEST DISEASES

Response of Chronic Cough to Acid-Suppressive Therapy in Patients With Gastroesophageal Reflux Disease
Peter J. Kahrilas; Colin W. Howden; Nesta Hughes; Michael Molloy-Bland
>> See editorial, page 587

A Prospective, Multicenter Survey on Causes of Chronic Cough in China
Kefang Lai; Ruchong Chen; Jiangtao Lin; Kewu Huang; Huahao Shen; Lingfei Kong; Xin Zhou; Zhiyang Luo; Lan Yang; Fuqiang Wen; Nanshan Zhong

INTERVENTIONAL PULMONOLOGY

Cryoprobe Transbronchial Lung Biopsy in Patients After Lung Transplantation: A Pilot Safety Study
Lonny Yarmus; Jason Akulian; Christopher Gilbert; Peter Illes; Pali Shah; Christian Merlo; Jon Orens; David Feller-Kopman
PROCEDURES

Reduction of Peripherally Inserted Central Catheter-Associated DVT
R. Scott Evans; Jamie H. Sharp; Lorraine H. Linford; James F. Lloyd; Scott C. Woller; Scott M. Stevens; C. Gregory Elliott; Jacob S. Tripp; Spencer S. Jones; Lindell K. Weaver

Course and Variation of the Intercostal Artery by CT Scan
Emma J. Helm; Najib M. Rahman; Omid Talakoub; Danial L. Fox; Fergus V. Gleeson

Use of the Nonwire Central Line Hub to Reduce Blood Culture Contamination
Phillip D. Levin; Josh Moss; Sheldon Stohl; Elchanan Fried; Matan J. Cohen; Charles L. Sprung; Shmuel Benenson

CRITICAL CARE

Impact of the Administration of Probiotics on Mortality in Critically Ill Adult Patients: A Meta-analysis of Randomized Controlled Trials
Damien Barraud; Pierre-Edouard Bollaert; Sébastien Gibot

Physician Staffing Models Impact the Timing of Decisions to Limit Life Support in the ICU
Michael E. Wilson; Ramez Samirat; Murat Yilmaz; Ognjen Gajic; Vivek N. Iyer

Survival After Shock Requiring High-Dose Vasopressor Therapy
Samuel M. Brown; Michael J. Lanspa; Jason P. Jones; Kathryn G. Kuttler; Yao Li; Rick Carlson; Russell R. Miller, III; Eliotte L. Hirshberg; Colin K. Grissom; Alan H. Morris

LUNG CANCER

What Do You Mean, a Spot? A Qualitative Analysis of Patients’ Reactions to Discussions With Their Physicians About Pulmonary Nodules
Renda Soylemez Wiener; Michael K. Gould; Steven Woloshin; Lisa M. Schwartz; Jack A. Clark

COPD

A Novel Extracorporeal CO₂ Removal System: Results of a Pilot Study of Hypercapnic Respiratory Failure in Patients With COPD
Nausherwan K. Burki; Raj Kumar Mani; Felix J. F. Hertl; Werner Schmidt; Helmut Teschner; Frank Bonin; Heinrich Becker; Winfried J. Randerath; Sven Stieglitz; Lars Hagmeyer; Christina Priegnitz; Michael Pfeifer; Stefan H. Blas; Christian Putensen; Nils Theuerkauf; Michael Quintel; Onnen Moerer

Effect of Emphysema on CT Scan Measures of Airway Dimensions in Smokers
Alejandro A. Diaz; MeiLan K. Han; Carolyn E. Come; Raul San Jose Estepar; James C. Ross; Victor Kim; Mark T. Dransfield; Douglas Curran-Everett; Joyce D. Schroeder; David A. Lynch; Juerg Tschirren; Edwin K. Silverman; George R. Washko

Distribution and Prognostic Validity of the New Global Initiative for Chronic Obstructive Lung Disease Grading Classification
Joan B. Soriano; Immaculada Allgamber; Pere Almagro; Ciro Casanova; Cristobal Esteban; Juan J. Soler-Cataluña; Juan P. de Torres; Pablo Martinez-Cambor; Marc Miravitlles; Bartolome R. Celi; Jose M. Marin

Validity of the COPD Assessment Test Translated Into Local Languages for Asian Patients
Namhee Kwon; Muhammad Amin; David S. Hui; Ki-Suck Jung; Seong Yong Lim; Huu Duy Ta; Thi Thuy Linh Thai; Faisal Yunus; Paul W. Jones

Seasonal Distribution of COPD Exacerbations in the Prevention of Exacerbations With Tiotropium in COPD Trial
Klaus F. Rabe; Leonardo M. Fabbri; Claus Vogelmeier; Harald Köger; Hendrik Schmitz; Kai M. Beeh; Thomas Glaab
### SLEEP DISORDERS

Association Between Sleep Apnea, Sleep Duration, and Serum Lipid Profile in an Urban, Male, Working Population in Japan
Yoshiro Toyama; Kazuo Chin; Yuichi Chihara; Misa Takegami; Ken-ichi Takahashi; Kensuke Sumi; Takaya Nakamura; Yukiko Nakayama-Ashida; Itsunori Minami; Sachiko Horita; Yasunori Oka; Tomoko Wakamura; Shun-ichi Fukuhara; Michiaki Mishima; Hiroshi Kadotani

Natural History of Primary Snoring in School-aged Children: A 4-Year Follow-up Study
Albert M. Li; Yin Zhu; Chun T. Au; Dennis L. Y. Lee; Crover Ho; Yun K. Wing

### TRANSPLANTATION

Barriers to Optimal Palliative Care of Lung Transplant Candidates
Rebecca E. Colman; J. Randall Curtis; Judith E. Nelson; Linda Eff eren; Denis Hadjiliadis; Deborah J. Levine; Keith C. Meyer; Maria Padilla; Mary Strek; Basil Varkey; Lianne G. Singer

Impact of Lung Transplantation on Recipient Quality of Life: A Serial, Prospective, Multicenter Analysis Through the First Posttransplant Year
C. Ashley Finlen Copeland; David M. Vock; Karen Pieper; Daniel B. Mark; Scott M. Palmer

### ANTITHROMBOTIC THERAPY

Gaps in Monitoring During Oral Anticoagulation: Insights Into Care Transitions, Monitoring Barriers, and Medication Nonadherence
Adam J. Rose; Donald R. Miller; Al Ozonoff; Dan R. Berlowitz; Arlene S. Ash; Shibei Zhao; Joel I. Reisman; Elaine M. Hylek

### PULMONARY VASCULAR DISEASE

Diastolic Pulmonary Vascular Pressure Gradient: A Predictor of Prognosis in “Out-of-Proportion” Pulmonary Hypertension
Christian Gerges; Mario Gerges; Marie B. Lang; Yuhui Zhang; Johannes Jakowitsch; Peter Probst; Gerald Maurer; Irene M. Lang

### CHEST INFECTIONS

Thrombocytosis Is a Marker of Poor Outcome in Community-Acquired Pneumonia
Elena Prina; Miquel Ferrer; Otavio T. Ranzani; Eva Polverino; Catia Cillóniz; Encarnación Moreno; Josep Mensa; Beatriz Montull; Rosario Menéndez; Roberto Cosentini; Antoni Torres

Coccidioidomycosis: Adenosine Deaminase Levels, Serologic Parameters, Culture Results, and Polymerase Chain Reaction Testing in Pleural Fluid
George R. Thompson, III; Shobha Sharma; Derek J. Bays; Rachel Pruitt; David M. Engelthaler; Jolene Bowers; Elizabeth M. Driebe; Michael Davis; Robert Libke; Stuart H. Cohen; Demosthenes Pappagianis

### GENETIC AND DEVELOPMENTAL DISORDERS

High Rhinovirus Burden in Lower Airways of Children With Cystic Fibrosis
Elisabeth Kieninger; Florian Singer; Caroline Tapparel; Marco P. Alves; Philipp Latzin; Hui-Leng Tan; Cara Bossley; Carmen Casaulta; Andrew Bush; Jane C. Davies; Laurent Kaiser; Nicolas Regamey

### OCCUPATIONAL AND ENVIRONMENTAL LUNG DISEASES

Longitudinal Pulmonary Function in Newly Hired, Non-World Trade Center-Exposed Fire Department City of New York Firefighters: The First 5 Years
Thomas K. Aldrich; Fen Ye; Charles B. Hall; Mayris P. Webber; Hillel W. Cohen; Michael Dinkels; Kaitlyn Cosenza; Michael D. Weiden; Anna Nolan; Vasilios Christodoulou; Kerry J. Kelly; David J. Prezant
## TRANSLATING BASIC RESEARCH INTO CLINICAL PRACTICE

Cardiovascular Disease in COPD: Mechanisms  
John D. MacIay; William MacNee  
798

## AHEAD OF THE CURVE

United States Critical Illness and Injury Trials Group  
James M. Blum; Peter E. Morris; Greg S. Martin; Michelle N. Gong; Satish Bhagwanjee; Charles B. Cairns; J. Perren Cobb  
808

## RECENT ADVANCES IN CHEST MEDICINE

Diagnosis and Treatment of Connective Tissue Disease-Associated Interstitial Lung Disease  
Rekha Vij; Mary E. Strek  
814

## SPECIAL FEATURES

### CHEST IMAGING

A Practical Algorithmic Approach to the Diagnosis and Management of Solitary Pulmonary Nodules: Part 1: Radiologic Characteristics and Imaging Modalities  
Vishal K. Patel; Sagar K. Naik; David P. Naidich; William D. Travis; Jeremy A. Weingarten; Richard Lazzaro; David D. Gutterman; Catherine Wentowski; Horiana B. Grosu; Suhail Raoof  
825  
See article, page 840

A Practical Algorithmic Approach to the Diagnosis and Management of Solitary Pulmonary Nodules: Part 2: Pretest Probability and Algorithm  
Vishal K. Patel; Sagar K. Naik; David P. Naidich; William D. Travis; Jeremy A. Weingarten; Richard Lazzaro; David D. Gutterman; Catherine Wentowski; Horiana B. Grosu; Suhail Raoof  
840  
See article, page 825

## TOPICS IN PRACTICE MANAGEMENT

Integrating Advanced Practice Providers Into Medical Critical Care Teams  
Christine McCarthy; Nancy C. O'Rourke; J. Mark Madison  
847  
See editorial, page 594 and article, page 851

Critical Care in the Surgical Global Period  
Julie R. Painter  
851  
See editorial, page 594 and article, page 847

## SELECTED REPORTS

Asthma Associated With Incontinentia Pigmenti and Fanconi Anemia: Variable Airflow Limitation Without Cellular Bronchitis  
Angira Dasgupta; May S. Sanaee; Carla M. T. Bauer; Fernando M. Botelho; Donald M. Arnold; Martin R. Stampfl; Parameswaran Nair  
856

Organizing Pneumonia as a Side Effect of Ipilimumab Treatment of Melanoma  
Igor Z. Barjaktarevic; Nida Qadir; Anu Suri; Jean T. Santamauro; Diane Stover  
858

## POSTGRADUATE EDUCATION CORNER

### PULMONARY, CRITICAL CARE, AND SLEEP PEARLS

A 67-Year-Old Woman With Asthma, Word Finding Difficulty, and an Abnormal Chest Radiograph  
Kelly Chugg; Vinod Aiyappan; Jeffrey Bowden  
862
CHEST

A 70-Year-Old Woman With Acute Chest Pain and a Paracardiac Mass
Fanny Jouan; Karim Sacre; Marie-Pierre Debray; Bruno Crestani; Marie-Paule Chauveheid; Thomas Papo

ULTRASOUND CORNER
ONLINE ONLY Beyond Belief
Clarisse Glen; Samuel Acquah; Pierre Kory

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PECTORILOQUY
Hair Fugue
Judith Terzi

What happens when I read PFTs
Scott J. Pearson

CORRESPONDENCE
Prognostic Scores in Pulmonary Embolism
Suman B. Thapamagar; Ramya Mallareddy
Response—Mareike Lankeit; David Jiménez

Probiotics in Critically Ill Patients: More Data Are Needed
Wan-Jie Gu; Jing-Chen Liu

>> See article, page 646

Are Asymptomatic DVTs Relevant? One Measure for All
Adolfo Llinas; Laura Cardenas
Response—Yngve Falck-Ytter; Clive Kearon; Elie Akl; Charles Francis

Resuscitation Status May Predict Mortality in Patients Admitted to the ICU
Brian H. Nathanson; Thomas L. Higgins
Response—Mark T. Keegan; Ognjen Gajic; Bekele Afessa

How Much Hypoxia Is Significant in Pulmonary Hypertension During Air Travel?
Thomas G. Smith
Response—Nareg Roubinian; Paul D. Blanc; Hubert Chen

Chest Ultrasonography as a Replacement for Chest Radiography for Community-Acquired Pneumonia
Andrew R. L. Medford
Response—Angelika Reissig

ERRATA
Missing Attribution in: The Genetics of Innate Immunity

Correction to Text and Figure: High Risk of Malignant Mesothelioma and Pleural Plaques in Subjects Born Close to Ophiolites

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EDITORIALS

Variation in the Incidence and Timing of Acute Lung Injury: The Role of Race
Colin R. Cooke; Timothy R. Watkins
>> See article, page 901

Joining the Crowd: Cystic Fibrosis and Cardiovascular Disease Risk Factors
Carroll E. Cross; Elizabeth J. Reverri; Brian M. Morrissey
>> See article, page 939

Systemic Treatment of Advanced Lung Carcinoid Tumors: Show Me the Data!
James R. Jett; Laurie L. Carr
>> See article, page 955

SECOND OPINION

Like Us
Rob Rogers

POINT/COUNTERPOINT EDITORIALS

Point: Are > 50 Supervised Procedures Required to Develop Competency in Performing Endobronchial Ultrasound-Guided Transbronchial Needle Aspiration for Mediastinal Staging? Yes
Erik Folch; Adnan Majid
888

Counterpoint: Are > 50 Supervised Procedures Required to Develop Competency in Performing Endobronchial Ultrasound-Guided Transbronchial Needle Aspiration for Lung Cancer Staging? No
C. Matthew Kinsey; Colleen L. Channick
891

Rebuttal From Drs Folch and Majid
Erik Folch; Adnan Majid
893

Rebuttal From Drs Kinsey and Channick
C. Matthew Kinsey; Colleen L. Channick
894

COMMENTARY

Compounding Pharmacy Conundrum: “We Cannot Live Without Them but We Cannot Live With Them”
According to the Present Paradigm
Roy Ghararoy; John Noviasky; Ziad Haydar; Mohamad G. Fakih; Christian Hartman
896

ORIGINAL RESEARCH

CRITICAL CARE

Sex, Race, and the Development of Acute Lung Injury
Luciano B. Lemos-Filho; Mark E. Mikkelsen; Greg S. Martin; Ousama Dabbagh; Adebola Adesanya; Nina Gentile; Annette Esper; Ognjen Gajic; Michelle N. Gong; for the US Critical Illness and Injury Trials Group: Lung Injury Prevention Study Investigators (USCIITG-LIPS)
>> See article, page 881

A Prognostic Model for 6-Month Mortality in Elderly Survivors of Critical Illness
Matthew R. Baldwin; Wazim R. Narain; Hannah Wunsch; Neil W. Schluger; Joseph T. Cooke; Mathew S. Maurer; John W. Rowe; David J. Lederer; Peter B. Bach
910
Radiologic Outcomes at 5 Years After Severe ARDS
M. Elizabeth Wilcox; Demetris Patsios; Grainne Murphy; Paul Kudlow; Narinder Paul; Catherine M. Tansey; Leslie Chu; Andrea Matte; George Tomlinson; Margaret S. Herridge

Mechanical Ventilation-Induced Reverse-Triggered Breaths: A Frequently Unrecognized Form of Neuromechanical Coupling
Evangelia Akoumianaki; Aissam Lyazidi; Nathalie Rey; Dimitrios Matamis; Nelly Perez-Martinez; Raphael Giraud; Jordi Mancebo; Laurent Brochard; Jean-Christophe Marie Richard

GENETIC AND DEVELOPMENTAL DISORDERS
Evidence of Vascular Endothelial Dysfunction in Young Patients With Cystic Fibrosis
Spencer Poore; Breana Berry; Dabney Eidson; Kathleen T. McKie; Ryan A. Harris

Impact of Air Pollution on Cystic Fibrosis Pulmonary Exacerbations: A Case-Crossover Analysis
Pieter C. Goeminne; Michał Kiciński; François Vermeulen; Frans Fierens; Kris De Boeck; Benoit Nemery; Tim S. Nawrot; Lieven J. Dupont

LUNG CANCER
Everolimus Plus Octreotide Long-Acting Repeatable in Patients With Advanced Lung Neuroendocrine Tumors: Analysis of the Phase 3, Randomized, Placebo-Controlled RADIANT-2 Study
Nicola Fazio; Dan Granberg; Ashley Grossman; Stephen Saletan; Judith Klimovsky; Ashok Panneerselvam; Edward M. Wolin

Podoplanin-Positive Cancer-Associated Fibroblasts Could Have Prognostic Value Independent of Cancer Cell Phenotype in Stage I Lung Squamous Cell Carcinoma: Usefulness of Combining Analysis of Both Cancer Cell Phenotype and Cancer-Associated Fibroblast Phenotype
Shotaro Ono; Genichiro Ishii; Kanji Nagai; Teruhisa Takuwa; Junji Yoshida; Mitsuyo Nishimura; Tomoyuki Hishida; Keiju Aokage; Satoshi Fujii; Northiko Ikeda; Atsushi Ochiai

SLEEP DISORDERS
Endothelial Dysfunction in Children With Obstructive Sleep Apnea Is Associated With Epigenetic Changes in the eNOS Gene
Leila Kheirandish-Gozal; Abdelnaby Khalyfa; David Gozal; Rakesh Bhattacharjee; Yang Wang

Increased Dietary Sodium Is Related to Severity of Obstructive Sleep Apnea in Patients With Resistant Hypertension and Hyperaldosteronism
Eduardo Pimenta; Michael Stowasser; Richard D. Gordon; Susan M. Harding; Michel Batlouni; Bin Zhang; Suzanne Oparil; David A. Calhoun

ASTHMA
Characteristics of Perimenstrual Asthma and Its Relation to Asthma Severity and Control: Data From the Severe Asthma Research Program
Chitra K. Rao; Charity G. Moore; Eugene Bleecker; William W. Busse; William Calhoun; Mario Castro; Kian Fan Chung; Serpil C. Erzurum; Elliot Israel; Douglas Curran-Everett; Sally E. Wenzel

Daily Diaries vs Retrospective Questionnaires to Assess Asthma Control and Therapeutic Responses in Asthma Clinical Trials: Is Participant Burden Worth the Effort?
Adesua Y. Okupa; Christine A. Sorkness; David T. Mauger; Daniel J. Jackson; Robert F. Lemanske Jr
COPD

α-1-Antitrypsin Phenotypes and Associated Serum Protein Concentrations in a Large Clinical Population
Joshua A. Bornhorst; Dina N. Greene; Edward R. Ashwood; David G. Grenache

Systemic Inflammatory Pattern of Patients With Community-Acquired Pneumonia With and Without COPD
Ernesto Crisafulli; Rosario Menéndez; Arturo Huerta; Raquel Martinez; Beatriz Montull; Enrico Clini; Antoni Torres

Inhaled Corticosteroid Is Associated With an Increased Risk of TB in Patients With COPD
Jung-Hyun Kim; Ji-Soo Park; Kyung-Ho Kim; Hye-Cheol Jeong; Eun-Kyung Kim; Ji-Hyun Lee

Effects of Phosphoinositide 3-Kinase on Protease-Induced Acute and Chronic Lung Inflammation, Remodeling, and Emphysema in Rats
Xiaocong Fang; Ka Li; Xuefei Tao; Chengshui Chen; Xiaoying Wang; Lingyan Wang; Diane C. Wang; Yong Zhang; Chunxue Bai; Xiangdong Wang

PULMONARY PROCEDURES

Comparison of 21-Gauge and 22-Gauge Aspiration Needle in Endobronchial Ultrasound-Guided Transbronchial Needle Aspiration: Results of the American College of Chest Physicians Quality Improvement Registry, Education, and Evaluation Registry
Lonny B. Yarmus; Jason Akulian; Noah Lechtzin; Faiza Yasin; Biren Kamdar; Armin Ernst; David E. Ost; Cynthia Ray; Sarah R. Greenhill; Carlos A. Jimenez; Joshua Filner; David Feller-Kopman; on behalf of the American College of Chest Physicians Quality Improvement Registry, Education, and Evaluation (AQuIRE) Participants

Complications, Consequences, and Practice Patterns of Endobronchial Ultrasound-Guided Transbronchial Needle Aspiration: Results of the AQuIRE Registry
George A. Eapen; Archan M. Shah; Xiudong Lei; Carlos A. Jimenez; Rodolfo C. Morice; Lonny Yarmus; Joshua Filner; Cynthia Ray; Gaetane Michaud; Sara R. Greenhill; Mona Sarkiss; Roberto Casal; David Rice; David E. Ost; on behalf of the American College of Chest Physicians Quality Improvement Registry, Education, and Evaluation (AQuIRE) Participants

A New, Simple Method for Estimating Pleural Effusion Size on CT Scans
Matthew P. Moy; Jeffrey M. Levsky; Netanel S. Berko; Alla Godelman; Vineet R. Jain; Linda B. Haramati

SIGNS AND SYMPTOMS OF CHEST DISEASES

Long-term Safety of Nebulized Lidocaine for Adults With Difficult-to-Control Chronic Cough: A Case Series
Kaiser G. Lim; Matthew A. Rank; Peter Y. Hahn; Karina A. Keogh; Timothy I. Morgenthaler; Eric J. Olson

CARDIOTHORACIC SURGERY

Videothoracoscopic Repair of Diaphragm and Pleurectomy/Abrasion in Patients With Catamenial Pneumothorax: A 9-Year Experience
Saina Attaran; Andrea Bille; Wolfram Karenovics; Loïc Lang-Lazdunski

PULMONARY VASCULAR DISEASE

Role of 320-Slice CT Imaging in the Diagnostic Workup of Patients With Chronic Thromboembolic Pulmonary Hypertension
Toshihiko Sugiura; Nobushira Tanabe; Yukiko Matsuura; Ayako Shigeta; Naoko Kawata; Takayuki Jujo; Noriyuki Yanagawa; Seiichiro Sakao; Yasunori Kasahara; Koichiro Tatsumi

DIFFUSE LUNG DISEASE

The Increasing Secondary Care Burden of Idiopathic Pulmonary Fibrosis: Hospital Admission Trends in England From 1998 to 2010
Vidya Navaratnam; Andrew W. Fogarty; Rachel Glendening; Tricia McKeever; Richard B. Hubbard
### Contents

#### Supraventricular Arrhythmias in Patients With Cardiac Sarcoidosis: Prevalence, Predictors, and Clinical Implications
Juan F. Viles-Gonzalez; Luciano Pastori; Avi Fischer; Juan P. Wisnivesky; Martin G. Goldman; Davendra Mehta

#### AGING

Aging, Diabetes, and Hypertension Are Associated With Decreased Nasal Mucociliary Clearance
Janaína Proença de Oliveira-Maul; Heráclito Barbosa de Carvalho; Daniele Miyuki Goto; Raphaela Mendonça Maia; Claudia Fló; Viviane Barnabé; Denise Reis Franco; Simon Benabou; Monica Rodrigues Perracini; Wilson Jacob-Filho; Paulo Hilário Nascimento Saldiva; Geraldo Lorenzi-Filho; Bruce K. Rubin; Naomi Kondo Nakagawa

#### TRANSLATING BASIC RESEARCH INTO CLINICAL PRACTICE

Protein Misfolding and Endoplasmic Reticulum Stress in Chronic Lung Disease
James Wei; Sadaf Rahman; Ehab A. Ayaub; Jeffrey G. Dickhout; Kjetil Ask

#### RECENT ADVANCES IN CHEST MEDICINE

Moving Toward a More Ideal Anticoagulant: The Oral Direct Thrombin and Factor Xa Inhibitors
MAJ Christopher S. King; MAJ(P) Aaron B. Holley; COL Lisa K. Moores

#### SPECIAL FEATURES

#### GLOBAL MEDICINE

Lung Cancer in China: Challenges and Interventions
Jun She; Ping Yang; Qunying Hong; Chunxue Bai

#### MEDICAL ETHICS

Limitations of Medical Research and Evidence at the Patient-Clinician Encounter Scale
Alan H. Morris; John P. A. Ioannidis

#### PATIENT SAFETY FORUM

Making Paracentesis Safer: A Proposal for the Use of Bedside Abdominal and Vascular Ultrasonography to Prevent a Fatal Complication
Hiroshi Sekiguchi; Jun Suzuki; Craig E. Daniels

#### TOPICS IN PRACTICE MANAGEMENT

Preparing for Accountable Care Organizations: A Physician Primer
Randall T. Curnow Jr; Jesse T. Doers

#### SELECTED REPORTS

Fentanyl-Induced Chest Wall Rigidity
Başak Çoruh; Mark R. Tonelli; David R. Park

Successful Treatment of Severe Amiodarone Pulmonary Toxicity With Polymyxin B-Immoviblized Fiber Column Direct Hemoperfusion
Nahoko Sato; Keisuke Kojima; Yuko Horia; Eisuuke Goto; Aiko Masunaga; Hidenori Ichiyasu; Hirotugu Kohrogi
A 47-Year-Old Man With Dyspnea and Hypotension
Pralay K. Sarkar; Seth J. Koenig; Paul H. Mayo

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Balancing the Risks and Benefits of Oxygen Therapy in Critically Ill Adults
G. R. Scott Budinger; Gökhan M. Mutlu

A 59-Year-Old Woman Who Is Awake Yet Unresponsive and Stuporous After Liver Transplantation
Insung Chung; Garret M. Weber; Madison C. Cuffy; Giridhar Vedula; Benjamin Samstein; Vivek K. Moitra

A 51-Year-Old Man Presenting With Shock and Lower-Lobe Consolidation With Interlobar Bulging Fissure
Cedric Rafat; Vincent Fihman; Jean-Damien Ricard

A 46-Year-Old Woman With Atelectasis From an Endobronchial Tumor
Takeshi Uenami; Takashi Kijima; Masahiro Ayata; Yoshitomo Hayama; Naotoshi Tsuruta; Yoshiyuki Saito; Takashi Niju; Naazumi Higaki; Toshiyuki Ikeda

Spontaneous Pneumothorax in a 50-Year-Old Man With Diffuse Pulmonary Nodules
Natalie Stolagiewicz; Brendan Tinwel; Ian S. Cormack; Sebastian B. Lucas; Anand Devaraj; Tuck Kay-Loke; Felix Chua

Re: My Coathanger Abortion
Mae Olivet

Neurally Adjusted Ventilatory Assist vs Pressure Support Ventilation During Noninvasive Mechanical Ventilation: Another Physiologic Evaluation to Consider?
Antonio M. Esquinas
Response—Emmanuel Futier; Samir Jaber; Jean-Michel Constantin

Backup Respiratory Rate During Noninvasive Positive Pressure Ventilation in Obesity Hypoventilation Syndrome: Can This Difficult Puzzle Be Resolved?
Antonio M. Esquinas
Response—Olivier Contal; Daniel Rodenstein; Jean-Louis Pépin; Jean-Paul Janssens

Telemedicine Programs in ICUs Are Proven to Drive Hospitals’ Clinical, Financial, and Operational Success
Mary Jo Gorman
Response—Gaurav Kumar; Peter Cram

Probiotics for Prevention of Ventilator-Associated Pneumonia
Ilias I. Siempos; Theodora K. Ntaidou
Response—Wan-Jie Gu; Rui-Xing Yin

Obesity, Dyslipidemia, and Sleep Disorders: Complexity Requires Complementary Analysis
Daniel N. Polesel; Karen T. Nazoe; Diego V. L. Decleva; Sergio Tufik; Monica L. Andersen
Response—Yoshiro Toyama; Kazuo Chin
Hypersensitivity Pneumonitis Due to Metalworking Fluid Exposures
Christopher M. Barber; Clare M. Burton; Edward Robinson; Brian Crook; Gareth Evans; David Fishwick
Response—Yves Lacasse; Mélissa Girard; Yvon Cormier

American College of Chest Physicians Guidelines for Heparin-Induced Thrombocytopenia: A Need for Evidence-Based Assessment of the Baseline Risk of Heparin-induced Thrombocytopenia
Daniela R. G. Junqueira
Response—Lori-Ann Linkins; Antonio L. Dans; COL Lisa K. Moores; Bruce L. Davidson; Sam Schulman; Mark Crowther

Significance of Lymphadenopathy in IgG4-Related Sclerosing Disease and Sarcoidosis
Narat Srivali; Supawat Ratanapo; Patompong Ungprasert; Wisit Cheungpasitporn

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EDITORIALE

De-crescita
A cura della redazione
doi 10.1702/1267.13984 .................................. HTML

CONTRIBUTI ED ESPERIENZE

L'intensità dell'assistenza durante la notte tra attività pianificate e non pianificate: studio descrittivo
Emanuele Galli, Silvia Ermolli, Chiara Lepore, Giulia Minerdi, Silvia Viaretti, Adriana Dalponte
doi 10.1702/1267.13985 .................................. HTML

Ridurre l'ansia preoperatoria a “suon di musica”: studio sperimentale in una Unità Operativa di Chirurgia Vascolare
Alessandro Sili, Roberta Fida, Davide Proietti, Ercole Vellone, Rosaria Alvaro
doi 10.1702/1267.13986 .................................. HTML

Predittori dell'intenzione di abbandonare la professione infermieristica in due ospedali italiani
Claudio Giovanni Cortese
doi 10.1702/1267.13987 .................................. HTML

Cinque scenari per cinque e molti di più... farmaci
Vito Lepore
doi 10.1702/1267.13988 .................................. HTML

PROSPETTIVE

30+1. Professione: Ricerca
Gianni Tognoni
doi 10.1702/1267.13989 .................................. HTML

I ritardi nella cicatrizzazione provocati dai farmaci
A cura della redazione
doi 10.1702/1267.13990 .................................. HTML

Il mondo degli AmA (Anziani molto Anziani): si può misurare l'efficacia di un intervento?
Donne del collettivo di vita e lavoro, che operano a Roma e Bastia: Anna Maria, Daniela, Delba, Lucia, Paula, Regina, Sabina
doi 10.1702/1267.13991 .................................. HTML
EDITORIALE

Causalità: appunti di metodologia. Per la ricerca. E il quotidiano
Gianni Tognoni

CONTRIBUTI ED ESPERIENZE

La valutazione del dolore toracico non traumatico in pronto soccorso: confronto tra heart score e il triage di un ospedale italiano
Davide Barba, Fabio Capuzzi, Simona Frigerio, Marco Clari, Valentina Bonomi, Fulvio Ricceri

Indagine sulle decisioni degli infermieri sull’assistenza del paziente con demenza avanzata
Ines Basso, Valerio Dimonte

Gli enteroclismi a base di fosfati: una pratica rischiosa sottovalutata?
La gestione di un evento avverso
Elena Carli, Elisabetta Fonzi, Franco Moltrer, Elisabetta Mon, Gianni Miori, Giuliano Brunori, Annalisa Campomori, Per il Gruppo di lavoro della Commissione Terapeutica Aziendale “Gestione della stipsi nei pazienti ricoverati e uso appropriato dei lassativi”

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A cura di Paola Di Giulio, Mariuccia Ottone, Maurizio Portaluri,
Epidemiologia & Prevenzione
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  Giovanni Costa

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  Paolo Campanini, Paul Maurice Conway, Luca Neri, Silvia Punzi, Donatella Camerino, Giovanni Costa

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  Paul Maurice Conway, Paolo Campanini, Silvia Punzi, Giuseppe Paolo Fichera, Donatella Camerino, Laura Francioli, Luca Neri, Giovanni Costa

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  Antonella Bena, Massimiliano Giraudo

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  Elisabetta Chellini, Andrea Martini, Valentina Cacciari, Anna Maria Badiali, Referenti delle Aziende sanitarie locali toscane
**Interventi**

- **MATline, una matrice lavorazione-esposizione per la previsione delle esposizioni a cancerogeni in Italia: nuove funzioni e potenziali utilizzi** *Matline, a job–exposure matrix for the prevision of exposure to carcinogens: new application and potential applications*
  Umberto Falcone, Luisella Girardi, Silvano Santoro, Manuela Orengia, Massimo Marighella, Elena Coffano

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  Antonella Gigantesco, Ilaria Lega

- **L’estrazione di pietre verdi è un rischio per la salute pubblica?** *L’estrazione di pietre verdi è un rischio per la salute pubblica?*
  Antonio Manti, Cristina Bancomina, Giuseppe Capano

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  Elisabetta Poltronieri, Annarita Barbaro, Donatella Gentili, Federica Napolitani

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  Paolo Giorgi Rossi

**Rubriche**

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  Bruna De Marchi

- **60 giorni di epidemiologia italiana** 
  DORS Piemonte
• **PASSI. Informare i lavoratori in merito alla sicurezza serve!** *It is important to inform workers about occupational safety*
  Giuliano Carrozzi, Davide Ferrari, Letizia Sampaolo, Lara Bolognesi, Angelo D'Argenzio, Sandro Baldissera, Nicoletta Bertozzi, Stefania Salmaso

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  Dario Consonni

• **Il lavoro degli italiani al cinema** *Italian people's work and cinema*
  Franco Carnevale, Lucia Miligi, Gianni Dorigo
PUNTO DI VISTA

3 Obiettivo sostenibilità: responsabilizzazione e sfide per il cambiamento invece che auspici e vincoli
Elio Borgonovi

SAGGI

11 Il cambiamento dei sistemi di programmazione e controllo nel processo di adattamento al contesto sanitario: un approccio integrato-interattivo
Cristina Campanale, Lino Cinquini

33 La presa in carico dei pazienti cronici: il disegno dei CReG lombardi e i possibili scenari di governance
Francesco Longo, Clara Carbone, Francesca Ferrè, Alberto Ricci

53 La funzione finanza nelle Aziende ospedaliero-universitarie: stato dell’arte e prospettive di sviluppo
Giusy Cavallaro, Anmarita Trotta

MATERIALI PER LA RICERCA E L’APPROFONDIMENTO

73 Il fenomeno delle dimissioni ospedaliere ritardate nella regione Emilia-Romagna

87 Lean Thinking in Radiologia: allineare i servizi fuori linea al percorso di cura del paziente in Pronto soccorso
D. Ricci, S. Magazzini, A. Coppi, A. Bogani, F. Bellomo, G. Dellino, A. Sergi

103 Dal controllo della spesa al governo clinico delle cure primarie: esperienza alla ASL 4 Terni
Flavia Simonetta Pirola, Vincenzo Panella, Sergio Luzzi Galeazzi

STRUMENTI E RISORSE PER LA CONOSCENZA

127 Novità bibliografiche

130 Spoglio riviste
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