EDITORIALS
281 The Complexities of ICU Discharge
Mary Hwa; Hannah Wunsch
>> See article, page 317

282 Is a Raised Eucapnic Blood Bicarbonate Value a Bellwether of Preclinical Obesity Hypoventilation Syndrome?
Brian N. Palen; Erik R. Swenson
>> See article, page 362

284 “All That Wheezes Is Not Asthma” (or COPD)!
David A. Kawinisky
>> See article, page 369

POINT AND COUNTERPOINT
287 POINT: Should Lung Cancer Screening by Chest CT Scan Be a Covered Benefit? Yes
David E. Yankelevitz

289 COUNTERPOINT: Should Lung Cancer Screening by Chest CT Scan Be a Covered Benefit? No
Katherine Courtright; Scott Manaker

292 Rebuttal From Dr Yankelevitz
David E. Yankelevitz

293 Rebuttal From Drs Courtright and Manaker
Katherine Courtright; Scott Manaker

COMMENTARY
Peter Mazzone; Charles A. Powell; Douglas Atenberg; Peter Bach; Frank Detterbeck; Michael K. Gould; Michael T. Janklisch; James Jett; David Naidich; Avil Vachani; Renda Soylemez Wiener; Gerard Silvestri

304 Natural Disasters and Nontuberculous Mycobacteria: A Recipe for Increased Disease?
Jennifer R. Honda; Jon N. Bernhard; Edward D. Chiu

AHEAD OF THE CURVE
309 The Future of Lung Transplantation
Steven D. Nathan

ORIGINAL RESEARCH
CRITICAL CARE
317 A Scoping Review of Patient Discharge From Intensive Care: Opportunities and Tools to Improve Care
Henry T. Stefson; Dan Lane; Jamie M. Boyd; Simon Taylor; Laure Perrier; Sharon Strauss; David Zygun; Danny J. Zuege
>> See editorial, page 281

328 Preintubation Application of Oral Chlorhexidine Does Not Provide Additional Benefit in Prevention of Early-Onset Ventilator-Associated Pneumonia
Cindy L. Munnor; Mary Jo Grap; Curtis N. Sessler; Ronald K. Elswick Jr; Devanand Mangar; Rachel Karimosi-Everett; Paula Cairns

335 Single-Dose Etomidate Does Not Increase Mortality in Patients With Sepsis: A Systematic Review and Meta-analysis of Randomized Controlled Trials and Observational Studies
Wen-Jie Gu; Fei Wang; Lu Tang; Jing-Chen Liu
347 Impact of Diagnostic Criteria on the Incidence of Ventilator-Associated Pneumonia
André E. Ego; Jean-Charles Priser; Jean-Louis Vincent

356 Noninvasive Positive Pressure Ventilation Following Esophagectomy: Safety Demonstrated in a Pig Model
Vignesh Ramani; Caitlyn E. MacGlashan; Cherie R. Erkmann

SLEEP DISORDERS
362 Is a Raised Bicarbonate, Without Hypercapnia, Part of the Physiologic Spectrum of Obesity-Related Hypoventilation?
Ari R. G. Manzil; Nicholas Harri; John R. Stradling
>> See editorial, page 282

COPD
369 Factors Predictive of Airflow Obstruction Among Veterans With Presumed Empirical Diagnosis and Treatment of COPD
Bridget F. Collins; Laura C. Feenster; Seppe T. Rinne; David H. Au
>> See editorial, page 284

377 Quality of Well-being Outcomes in the National Emphysema Treatment Trial
Robert M. Kaplan; Qiankun Sun; Andrew L. Rice

ASTHMA
388 What Is the Role of Tiotropium in Asthma? A Systematic Review With Meta-analysis
Gustavo J. Rodrigo; José A. Castro-Rodríguez

397 The Effect of Omega-3 Fatty Acids on Bronchial Hyperresponsiveness, Sputum Eosinophilia, and Mast Cell Mediators in Asthma
John D. Brumman; Johan Boon; Ahmad Alkhawaz; David Balgouma; Joceline Otis; Ingrid Delin; Barbro Dahlin; Craig E. Whedock; Paranaswaran Nair; Sven-Erik Dahlin; Paul M. O’Byrne

406 Improved Management of Acute Asthma Among Pregnant Women Presenting to the ED
Kohei Hashimoto; Rits K. Cudhulkar; Ashley F. Sullivan; Mark I. Langdorf; Stephanie A. Nonass; Richard M. Nowak; Nancy E. Wang; Carol A. Camargo Jr

DIFFUSE LUNG DISEASE
415 The Clinical Course of Diffuse Idiopathic Pulmonary Neuroendocrine Cell Hyperplasia
Laurie L. Carr; Jonathan H. Chang; Rosane Duarte Achebar; Zoran Lesic; Ji Y. Rhee; Kanithro Yogiashi; Robert M. Tate; Jeffrey J. Swirski; Jeffrey A. Kern

423 Palliative Care and Location of Death in Decedents With Idiopathic Pulmonary Fibrosis
Kathleen O. Lindell; Zhao Liang; Leslie A. Hoffman; Margaret Q. Rosentstein; Melissa J. Saud; Joseph M. Pilewski; Kevin F. Gibson; Nafisa Kanninski

430 Validation of the GAP Score in Korean Patients With Idiopathic Pulmonary Fibrosis
Eun Sun Kim; Sun Mi Choi; Jinwoo Lee; Young Sik Park; Chang-Hoon Lee; Jee-Joon Yim; Chul Gyu Yoo; Young Whan Kim; Sang Koo Han; Sang-Min Lee

438 Racial Difference in Sarcoidosis Mortality in the United States
Mohit Mireascu; Roberto F. Machado; Dean Schraufnegg; Nadena J. Swies; Robert B. Buehman

450 CT Scan Findings of Probable Usual Interstitial Pneumonitis Have a High Predictive Value for Histologic Usual Interstitial Pneumonitis
Jonathan H. Chung; Ashish Chawla; Anna L. Peltis; Carlyne D. Cool; Steve D. Groshong; Janet L. Talbert; David F. McKeen; Kevin K. Brown; Tasha E. Fingertin; Marvin L. Schwartz; David A. Schwartz; David A. Lynch

460 The MUC5B Promoter Polymorphism Is Associated With Idiopathic Pulmonary Fibrosis in a Mexican Cohort but Is Rare Among Asian Ancestries
Anna L. Peltis; Moises Selman; Dong Soon Kim; Elissa Murphy; Laura Tuckers; Annie Pardo; Jung Su Lee; Woonjin Je; Marvin L. Schwartz; Ivan Y. Yang; David A. Schwartz; Tasha E. Fingertin
465 Association Between Occupational Dust Exposure and Prognosis of Idiopathic Pulmonary Fibrosis: A Korean National Survey
Sang Hoan Lee; Dong Soon Kim; Young Whan Kim; Man Hyo Chang; Soo Taek Uhl; Choan Suk Park;
Sang Ithwan Jeong; Yong Bun Park; Hong Lyeol Lee; Jeong Sup Song; Yong Wook Shin; Nam Soo You;
Eun Joo Lee; Jin Hwa Lee; Yangsin Jegal; Hyeon Kyung Lee; Moe Suk Park

PULMONARY VASCULAR DISEASE

475 Direct Oral Anticoagulants in Patients With VTE and Cancer: A Systematic Review and Meta-analysis
Maria Cristina Vedovati; Federico Germinelli; Giancarlo Agnelli; Cecilia Becattini

484 Hospitalization and Survival in Patients Using Epoprostenol for Injection in the PROSPECT Observational Study
Robert P. Froncz; Robert J. Shliz; Murali M. Chakinala; David B. Badesch; Adouni E. Frost;
Valerie V. McAuliffin; Robyn J. Barst; Daniel M. Rosenberg; Dave P. Miller; Brian K. Hartline;
Wade W. Benton; Harrison W. Farber

495 Pulmonary Arterial Hypertension in the Southern Hemisphere: Results From a Registry of Incident Brazilian Cases
Jose Leonidas Alves Jr; Francisco Gavilanes; Carlos Jardim; Caio Julio Cesar dos Santos Fernandes;
Luciana Tamie Kato Morinaga; Bruno Dias; Susana Hoetle; Marc Humbert; Rogerio Souza

DISORDERS OF THE PLEURA

502 Accuracy of Fluorodeoxyglucose-PET Imaging for Differentiating Benign From Malignant Pleural Effusions: A Meta-analysis
José M. Porcel; Paula Hernández; Montserrat Martínez-Alonso; Silvia Bielsa; Antonieta Salad

513 Derivation and Validation of a CT Scan Scoring System for Discriminating Malignant From Benign Pleural Effusions
José M. Porcel; Marina Pardina; Silvia Bielsa; Antonio González; Richard W. Light

CHEST INFECTIONS

520 Optimal Duration of Anti-TB Treatment in Patients With Diabetes: Nine or Six Months?
Jian-Yian Wang; Ming-Chia Lee; Chin-Chang Shu; Chih-Hsin Lee; Li-Na Lee; Kiu-Mao Chao;
Feng-Yee Chang

TRANSLATING BASIC RESEARCH INTO CLINICAL PRACTICE

529 New Molecular Targets of Pulmonary Vascular Remodeling in Pulmonary Arterial Hypertension: Importance of Endothelial Communication
Christophe Guignabert; Ly Tiu; Barbara Girelli; Nicolas Ricard; Alice Huertas; David Montani;
Marc Humbert

SPECIAL FEATURES

538 Comprehensive CT Cardiothoracic Imaging: A New Challenge for Chest Imaging
Riccardo Marano; Federica Pirro; Valentina Silvestri; Biagio Merlino; Giancarlo Savino;
Claudio Rutiigiano; Agostino Meduri; Luigi Natu; Lorenzo Bonomo

RECENT ADVANCES IN CHEST MEDICINE

552 The Value of Respiratory Muscle Testing in Children With Neuromuscular Disease
Brigitte Friess; Susana Quijano-Ray; Isabelle Desguerre; Sonia Khuri

CONTEMPORARY REVIEWS IN CRITICAL CARE MEDICINE

560 Integration of Palliative Care in the Context of Rapid Response: A Report From The Improving Palliative Care in the ICU Advisory Board
Judith E. Nelson; Kearam S. Mathews; David E. Weissman; Karen J. Brise; Margaret Campbell;
J. Randall Curtis; Jennifer A. Frontera; Michelle Gabriella; Ross M. Hays; Anne C. Masich
Colleen Mulherin; Kathleen A. Panstilla; Daniel E. Ray; Stefanie P. Weiss; Rick Basset; Renee D. Bons;
Dora R. Lustbader; on behalf of The Improving Palliative Care in the ICU Project Advisory Board

CONTEMPORARY REVIEWS IN SLEEP MEDICINE

570 Sleep-Disordered Breathing in Down Syndrome
Chitra Loh; David R. White; Jane E. Joseph; Karen van Bakergem; Angela LaRosa
**PECTORALOGY**

580  First Rights: Letter to Dr. Kreitman
    *Mike Maggio*

581  My Father Walks Five Blocks in Winter
    *Amy Knox Brown*

582  Two Possibilities
    *Lots Marie Harrod*

583  Miracle Baby
    *James Michael Berry*

---

### ONLINE EXCLUSIVES

#### SELECTED REPORTS

<table>
<thead>
<tr>
<th>e27</th>
<th>Therapeutic Hypothermia After Cardiac Arrest in a Patient With Systemic Sclerosis and Raynaud Phenomenon</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Keren Bakul, Maurice Dancker, Joshua L. Denison, Harald Sautloff</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>e31</th>
<th>Bronchiolitis Obliterans Organizing Pneumonia Following a Jalapeño Grease Fire</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Brian T. Garibaldi, Natalie E. West, Peter B. Illei, Peter B. Terry</td>
</tr>
</tbody>
</table>

#### ULTRASOUND CORNER

<table>
<thead>
<tr>
<th>e34</th>
<th>A Middle-Aged Man With Hypoxia After Cranial Metastasectomy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Kristen B. Dixon, Lauren S. Johnson, Nimish S. Shah</td>
</tr>
</tbody>
</table>

#### CHEST IMAGING AND PATHOLOGY FOR CLINICIANS

<table>
<thead>
<tr>
<th>e38</th>
<th>An Unusual Case of Postpartum Dyspnea</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Arvind Ramdas, Tasneem Qureshi, Josip Matkara, James Cary, Vasindra Seram</td>
</tr>
</tbody>
</table>

### PULMONARY, CRITICAL CARE, AND SLEEP PEARLS

<table>
<thead>
<tr>
<th>e44</th>
<th>A 41-Year-Old Woman With Shortness of Breath and History of Rash and Recurrent Laryngeal Edema</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ali Ayyar, Ibrahim Faruqui, Juan C. Salgado</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>e48</th>
<th>A 60-Year-Old Asymptomatic Woman With Pulmonary Lesions and Cervical Lymphadenopathy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tomoko Yamagishi, Nobuaki Ochizawa, Hiroichi Yamane, Fujioshi Kuriyayashihi, Negio Takigawa</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>e52</th>
<th>An 81-Year-Old Man With an Abnormal Right-Sided Heart Shadow on Chest Radiograph</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rahman Shafi, M. Rehan Khan, Tae-Hwang M. Fan, Genina Rust, Kishangudi B. Ramanathan</td>
</tr>
</tbody>
</table>

#### CORRESPONDENCE

<table>
<thead>
<tr>
<th>e56</th>
<th>Critical Care Use in Patients With Lung Cancer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Marcia Searon, Luciano C. P. Azevedo, Jorge E. Sallah</td>
</tr>
<tr>
<td></td>
<td>Response—Colin R. Cooke, Bendra Scylemes Wiener, Christopher G. Slater</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>e58</th>
<th>MRI: A New Paradigm in Imaging Evaluation of Allergic Bronchopulmonary Aspergillosis?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Moniapan Kumar Garg, Pankaj Gupta, Ritesh Agrawal, Kushaljit Singh Sadh, Niranjan Khundekar</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>e60</th>
<th>How Japanese Medical Journals Manage Conflicts of Interest</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Takako Kinmura, Joseph Green, J. Patrick Barron</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>e61</th>
<th>National Trends in Benign Pulmonary Resections: Association With CT and PET Imaging</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lin Hsu, Jacqueline M. Achkar, Steven M. Keller, Jason J. Bailey, Hillel W. Cohen, Linda B. Haramati</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>e63</th>
<th>Brain Natriuretic Peptide and Fluid Restrictive Approaches to Prevent Ventilator-Associated Pneumonia: Let's Look at Small Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gunier M. Koksal, Yalim Dikmen, Antonio M. Esquinas</td>
</tr>
<tr>
<td></td>
<td>Response—Armand Mekontso Desse, Laurent Brochard, Christian Brun-Buisson</td>
</tr>
</tbody>
</table>
e65  Mortality vs Case Fatality in the Assessment of Sarcoidosis Lethality
   Jerome M. Reich
   Response—Mehdi Mirasaeidi; Roberto F. Machado; Dean Schraufnegg; Nader J. Sweiss; Robert P. Baugham
   >> See article, page 438

e67  ABO Blood Type and ARDS
   Yiqiang Zhan
   Response—John P. Reilly; Jason D. Christie

e69  Brain Death and the Moral Code of Islam
   Mohamed Y. Bady; Joseph L. Verheijde

e70  Dabigatran and Myocardial Infarction
   Stefan H. Hohnloser; Gregory Y. H. Lip
   Response—Bruce L. Davidson

e73  Bronchial Thermoplasty: Ready for Prime Time - The Evidence Is There!
   Mario Castro; Gerard Cox; Michael E. Wechsler; Robert M. Niven
   Response—Vivek N. Iyer; Kaiser G. Lim
   Response—Richard S. Irwin

To view Online Exclusives articles, visit the complete collection at
http://journal.publications.chestnet.org/onlineexclusives.aspx

PODCAST

Article-specific audio discussions can be found online at
http://journal.publications.chestnet.org/ss/podcasts.aspx

VIDEO

Accompanying videos for articles can be found in the supplemental materials section of the individual article view on the CHEST website.