New Journal of Thoracic Imaging Editor

Dr. Boiselle

It is with great pleasure that the STR welcomes Dr. Phillip M. Boiselle as the NEW Editor-in-Chief of the Journal of Thoracic Imaging beginning January, 2009. Dr. Boiselle has been a long-standing member of the thoracic radiology community, has an outstanding record of scholarship in the field, and has an outstanding reputation as a journal reviewer and editorial board member. CONGRATULATIONS, Dr. Boiselle!

The STR also would like to THANK Dr. Charles S. White for his outstanding leadership as the past Journal of Thoracic Imaging Editor-in-Chief. He has served as Editor since 2005. Under his leadership, JTI has continued to grow in quality and international reputation. Thanks, Charlie for your dedication, innovation and commitment to excellence. THANK YOU!

Below is a synopsis of Dr. Boiselle’s professional career:

Dr. Phillip M. Boiselle is the Director of Thoracic Imaging and Associate Chief of Administrative Affairs in the Department of Diagnostic Radiology at Beth Israel Deaconess Medical Center. He is also an Associate Professor in Radiology and a Scholar in the Academy at Harvard Medical School.

Dr. Boiselle completed his undergraduate degrees in Chemistry and Communication at the University of North Carolina at Chapel Hill. He attended medical school at the Duke University School of Medicine and completed his residency training in diagnostic radiology at Yale University, where he also served as Chief Resident. He subsequently completed a fellowship in Thoracic Radiology at the Massachusetts General Hospital. Following his fellowship, he served as Director of Thoracic CT and Director of Pre-Clinical Radiology Education at Temple University. He subsequently joined the faculty at BIDMC in 1999 as Director of the Thoracic Imaging section.

Dr. Boiselle is the author of over 150 scientific articles, reviews, and book chapters. He has also co-authored and co-edited 5 textbooks. He completed a Rabkin Fellowship in Medical Education and is a recognized educator with an interest in
promoting educational scholarship. Additionally, Dr. Boiselle has a major research interest in airway imaging and founded the Center for Airway Imaging at Beth Israel Deaconess Medical Center, which has become a leading center for the non-invasive imaging of patients with large airway disorders. His research has primarily focused upon the application of advanced CT imaging methods to noninvasively diagnose a variety of central airway abnormalities, most notably tracheobronchomalacia. He is currently the Principal Investigator for an NIH-RO1 grant from the National Heart Lung and Blood Institute that is designed to assess the prevalence and natural history of tracheomalacia among patients with COPD using a low-dose CT technique.

Dr. Boiselle has been a member of the Journal of Thoracic Radiology Editorial Board since 2000 and has served as Associate Editor since 2006. A senior member of the Society of Thoracic Radiology since 1997, he has served the society in several capacities, including Chair of the Membership and Standards Committees, Councilor to the American College of Radiology, and moderator of the annual STR meeting film panel. He is also an active member of numerous other societies, including the Radiological Society of North America, the American Roentgen Ray Society, the American College of Radiology, the American College of Chest Physicians, and the New England Roentgen Ray Society, for which he currently serves as President.

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**Educational Website for STR**

2008 lectures are now available on the STR website. Go to the left side of the STR website and click on either STR Online Education or you can go in through the tab across the top which says “Education” and use the drop-down menu. You will then be able to view the cardiac imaging, pulmonary imaging and miscellaneous educational resources.

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**2009 STR Annual Meeting as Part of WCTI-II**

It's time to begin making your arrangements for the second World Congress of Thoracic Imaging (WCTI-II) from May 30-June 2, 2009 in Valencia, Spain. This Congress will be sponsored by the STR, Fleischner Society, European Society for Thoracic Imaging, Japanese Society of Thoracic Imaging, and Korean Society of Thoracic Imaging. The scientific program is now available, along with other information at [http://www.geyseco.es/thoracicimaging.htm](http://www.geyseco.es/thoracicimaging.htm). Deadline for abstract submission, at the same website, is January 15, 2009.
Travel Tips for Valencia

The WCTI is an opportunity to enjoy the outstanding architecture of Valencia, ranging from the Moorish medieval center (a UNESCO heritage site) to new additions like the Norman Foster Congress Hall, Santiago Calatrava’s City of Arts & Sciences and Opera house, the Mercado Central in a beautiful Art Nouveau building. Other attractions include the Museo de las Bellas Artes, and the Institut Valencia d’Art Modern. Excellent seafood restaurants abound. Further travel tips may be found at:


www.valenciavalencia.com/travel

http://www.concierge.com/search/travelguide/results/?search_term=valencia

The following tours have been organized by American Travel Association for STR members, family, and friends:

The **pre-meeting tour** begins in Madrid, with tours of the Prado Museum and Royal Palace. In Toledo you will see El Greco’s fabulous “Burial of Count Orgaz.” From Madrid you will travel to Cordoba aboard the high-speed AVE Train. Your tour of Cordoba includes La Mezquita, the 3rd largest mosque in the world, and you will conclude in Spain’s jewel, Seville. Here we’ll see the final resting place of Christopher Columbus and explore its breathtaking Cathedral. Seville is known for flamenco, which you will also enjoy.

The **post-meeting tour** will begin in Barcelona, with Gaudi’s famous unfinished cathedral, and will also include the Monastery of Montserrat.
Further information on these tours may be obtained at:
American Travel Association
2126 Piedmont Lake Road
Pine Mountain, GA 31822-3556
Phone: 800-656-4206, 706-663-2171
Fax: 706-663-2445
e-mail: travelata@aol.com

2010 STR Annual Meeting Venue

The STR 2010 Annual Meeting will be at the Hotel del Coronado in San Diego, California from February 28 through March 3, 2010.

ACR Symposium on Pneumoconiosis

The American College of Radiology and NIOSH will sponsor a Symposium on Pneumoconioses from April 24 – 26, 2009. NIOSH testing for B-reader certification will take place on April 26th – 27th. The Symposium will be held at the Westfield Marriott in Chantilly, VA, close to Dulles International Airport. STR members will receive a mailing with details of this activity.
Creation of Alliance of Clinician-Educators in Radiology (ACER)

This past year saw the creation of the Alliance of Clinician-Educators in Radiology (ACER) as part of the Association of University Radiologists (AUR) family of organizations. ACER is dedicated to advancing the interests and efforts of this large and growing segment of academic radiology faculty. Clinician-educators include all radiologists who are involved at any level in student, resident or post-graduate education. ACER's mission is (1) to provide a formal organization and forum for clinician-educators to meet, exchange ideas, and learn new skills that promote and advance the careers of clinician-educators, (2) to develop programs at the annual AUR meeting targeted toward the needs of clinician-educators, (3) to promote and develop educational research activities relevant to clinician-educators.

Founding Officers:
Eric J. Stern, MD President
Gautham Reddy, MD President-Elect
Jannette Collins, MD, MEd, FCCP Secretary/Treasurer

For more information about ACER please visit: www.aur.org/acer.htm.

Also of potential interest to many STR members, ACER is very excited to announce a new partnership with MedEdPORTAL. In 2005 the Association of American Medical Colleges (AAMC) developed and launched MedEdPORTAL (www.aamc.org/mededportal) as a free publishing venue and dissemination portal to support educators and learners as they create and use on-line teaching materials, assessment tools and faculty development resources. As an internationally available service, MedEdPORTAL facilitates sharing of high quality peer-reviewed educational material and promotes collaboration and educational scholarship across institutions. Examples of MedEdPORTAL publications include tutorials, virtual patients, cases, lab manuals, assessment instruments, faculty development materials, etc. MedEdPORTAL publications cover the continuum of medical and dental education (i.e. undergraduate, graduate, and continuing medical and dental education). An example of a radiology resource can be found at: http://www.aamc.org/meded/mededportal/downloads/MEP-ID-0004.htm.

For those among you in an academic clinician-educator career path, this new partnership will give you the valuable opportunity to have your scholarly electronic teaching and educational materials published in a peer-reviewed format. Each publication receives a National Library of Medicine (NLM) citation and can be cited in your CV and teaching portfolio. It also provides a formal and well-established format to demonstrate your scholarship to your department, Chair, and promotion committees. More information is available at the MedEdPORTAL website (www.aamc.org/mededportal).
New STR Fellows in Cardiothoracic Radiology

The following cardiothoracic fellows started their training in July of 2008.

Hospital of the University of Pennsylvania

Name: Chi Wan Koo, M.D.  (Photo to left)
Place of Origin: Hong Kong
Place of Residency Training: St. Luke's Roosevelt Hospital; New York, NY
Future Plans: Academic chest radiology

Name: Charles T. Lau, M.D.  (Photo to left)
Place of Origin: Philadelphia, Pennsylvania
Place of Residency Training: Hospital of the University of Pennsylvania; Philadelphia, PA
Future Plans: Academic radiology

Name: Eduardo Jose Mortani Barbosa, Jr., MD  (Photo to left)
Place of Origin: Rio de Janeiro, Brazil
Place of Residency Training: University of Sao Paulo; Sao Paulo, Brazil
Future Plans: Become an academic radiologist and researcher

University of Vermont

Name: Erin McQuaide Tsai, MD  (No photo)
Place of Origin: Vermont
Place of Residency: University of Vermont
Plans for future: Undecided

New York University - Langone Medical Center

Name of Fellow: Patricia de Groot, MD  (Photo to left)
Place of Origin: Texas
Place of Residency Training: NYU Langone Medical Center
Future Plans: Academic radiology

Allegheny General Hospital – Pittsburgh, PA

Name: Todd Goodnight, MD  (No photo)
Place of Origin: South Boston, VA
Place of Residency: Mercy General Hospital, Pittsburgh, PA
Future Plans: Private practice - Western USA - Alaska
Massachusetts General Hospital - Harvard Medical School

Name of Fellow: Terrance Healey, MD (Photo to left)
Place of Origin: Cranston, Rhode Island
Residency Training: Brown University, Rhode Island Hospital. Recipient of the 2007 Jack Westcott Research Award
Future Plans: Dr. Healey has accepted a position in Thoracic Imaging at Brown University, Rhode Island Hospital

Name of Fellow: Seth Kligerman, MD (Photo to left)
Place of Origin: Miami, Florida
Residency Training: University of Colorado
Future Plans: To continue a career in academic thoracic radiology

Name of Fellow: Nikhil Goyal, MD (Photo to left)
Place of Origin: Searingtown, New York
Residency Training: Northshore-Long Island Jewish Health System, NY
Future Plans: To continue a career in academic thoracic and cardiac radiology

University of Wisconsin

Name: Brett Carmichael, MD (No photo)
Place of Origin: USA
Place of Residency: Uniformed Armed Service Health Sciences, Bethesda, MD
Plans for future: Cardiothoracic radiology in Academics or hybrid academic/private practice setting

University of North Carolina

Name: Ertan Pamuklar, MD (Photo to left)
Place of Origin: Ankara, Turkey
Place of Residency: Gaze University, Dept. of Radiology, Ankara, Turkey
Future Plans: Academic faculty position in the Cardiopulmonary Radiology Section at the University of North Carolina

Mallinckrodt Institute of Radiology – Washington University

Name: Jose Maldonado, MD (No photo)
Place of Origin: Puerto Rico
Place of Residency: University of Puerto Rico
Future Plans: Academic (Attending at University of Puerto Rico Hospital-Carolina)

Stanford University Medical Center

Name: Andrew Yen, MD (Photo to left)
Place of Origin: Boston, MA
Place of Residency: Diagnostic Radiology Residency at University of California Irvine Medical Center
Future Plans: Academic radiology
Wake Forest University Health Sciences Center

Name: Scott Wuertzer, MD  (Photo to left)
Place of Origin: Indiana, PA
Place of Residency: University of South Alabama
Future Plans: Currently weighing several options; would like to practice in the Southeast, likely private practice but have not completely excluded a career in academics

Name: Shannon M. Gulla, MD  (Photo to left)
Place of Origin: Memphis, TN
Place of Residency: Baptist Memorial Hospital, Memphis and Mid-South Imaging and Therapeutics
Future Plans: Join Mid-South Imaging and Therapeutics (private practice group with residency) following fellowship training

Cleveland Clinic

Name: Ruchi Yadav, MD (No photo)
Place of Origin: India
Place of Residency: India
Plans for future: Academic radiology – CCF

University of Michigan

Name: Andres Abreu, MD  (Photo to left)
Place of Origin: Dominican Republic
Citizenship: USA
Place of Residency: Oakwood Southshore Medical Center, Trenton, Michigan
Future Plans: Private practice, preferably Southeastern U.S.

Name: Negar G. Knowles, MD  (Photo to left)
Place of Origin: Born in Germany, raised in United States, Persian ethnicity
Citizenship: USA
Place of Residency: Tucson, Arizona
Future Plans: Academic or large group private practice

Name: Raoul Pereira, MD  (Photo to left)
Place of Origin: Canada
Citizenship: Canadian
Place of Residency: Edmonton, Alberta, Canada
Future Plans: Cardiothoracic and general radiology, part time academic setting (teaching and research)

University of California San Francisco

Name: John Van Uden, MD  (No photo)
Place of Origin: Southern California
Place of Residency: University of California San Francisco
Plans for future: Undecided
Name: James S. Chen, MD, PhD  (No photo)
Place of Origin: New York
Place of Residency: University of California San Francisco Radiology and Biomolecular Imaging
Plans for future: Undecided

Name: Carmen Lydell, MD  (No photo)
Place of Origin: Vancouver, BC Canada
Place of Residency: Calgary, AB Canada
Plans for future: 2009 – chest and cardiac radiology in Calgary AB, Canada

Beth Israel Deaconess Medical Center – Harvard Medical School

Name: Luce Cantin, MD  (Photo to left)
Place of Origin: Canada
Place of Residency: Quebec City, Canada
Future Plans: Academic radiology position at Laval Hospital Cardiology and Pneumology Institute following completion of fellowship

University of California Los Angeles

Name: Christopher Lee, MD  (Photo to left)
Place of Origin: Santa Clara, California
Place of Residency: UCLA Medical Center, Los Angeles, California
Future Plans: Seeking a position in a moderate to large practice setting with emphasis on teaching and some clinical research. Desired work environments include VA or county settings, as well as large private practices. Have experience and interest in thoracic interventions, including ablations. Also competent in cardiac imaging.

Name: Nanette Le, DO  (Photo to left)
Place of Origin: Los Angeles, California
Place of Residency: Sacred Heart Medical Center, Spokane, Washington
Future Plans: Although thoracic imaging is my primary subspecialty interest, my plans after fellowship are still uncertain. I also enjoy cardiac and body imaging and have scheduled electives in these areas during my fellowship year. My future considerations are an academic career in thoracic imaging versus a private practice career with a thoracic focus.

University of Colorado Denver/National Jewish Health System

Name: Ashish Chawla, MD  (Photo to left)
Place of Origin: Vidsha, MP India
Place of Residency Training: KEM (King Edward Memorial) – Mumbai, India
Future Plans: Undecided

Name: Alyn Woods, MD  (Photo to left)
Place of Origin: McKinleyville, CA
Place of Residency Training: University of Colorado - Denver, CO
Future Plans: Northern California
Editor for Case of the Day: Ralph Drosten, MD
By Janneth Romero, MD
Instructor of Radiology, Harvard Medical School, Beth Israel Deaconess Medical Center

History
- 53 y/o man
- 1 week fatigue, weakness, arthralgias, myalgias, N/V/D, and fever following fishing trip to Cape Cod, MA
- On morning of admission, patient felt dizzy and fell to the ground

Diagnostic evaluation
- Physical examination: Low-grade fever, orthostatic hypotension, scattered expiratory rhonchi and fine crackles at left base
- CXR: Normal
- Labs: Anemia

Hospital course
- A presumptive diagnosis prompted antibiotic treatment
- Nevertheless, on Day 3, patient developed a nonproductive cough, low O2 saturation and tachypnea
Day 3: Hypoxemia, tachypnea
    Bilateral, multifocal asymmetrical airspace opacities.
    Normal heart size, small pleural effusions

Day 9: Increased O2 requirement
    Intubated
    Normal heart size
    More confluent airspace opacities

ACUTE AIRSPACE OPACITIES with NORMAL HEART SIZE

**Non-cardiogenic pulmonary edema**
- Near drowning
- ARDS
- Neurogenic pulmonary edema
- Drug or transfusion reaction

**Infection**
- PCP
- Viral / bacterial pneumonia

**Hemorrhage**
- Pulmonary-renal syndromes (e.g., Goodpasture)
- Trauma
• Coagulopathy

*In this case...*

**Non-cardiogenic pulmonary edema**
• ARDS

**Infection**
• Viral / bacterial pneumonia
• PCP

ADDITIONAL HISTORY

PERIPHERAL BLOOD SMEAR

Giemsa stained: Ring like morphology of *Babesia microti*
White vacuolar ring vs. pink vacuole in Falciparum
‘Maltese cross’ tetrad of parasites

Courtesy of Dr. J. Kirby Medical Director, Clinical Microbiology BIDMC

**BABESIOSIS**

• Tick-borne illness
• Protozoan: *Babesia microti*
• Can also be transmitted by transfusion.
• American form:
  – Common & usually mild
• Asymptomatic or self-limiting mild fever, sweats, fatigue & myalgias
• 9 – 21% have been infected in endemic areas (MA, RI & CT)
Risk factors for symptomatic infection:
- Age > 50
- Asplenia
- Depressed cellular immunity
- Underlying pulmonary disease or malignancy

Rare severe manifestations:
- Multiorgan failure, ARDS, DIC, CHF, RF, death

Treatment:
- Clindamycin / quinine
- Atovaquone / azithromycin

ARDS in BABESIOSIS
- Rare complication
- Delayed onset greater than 72 h following initial signs of systemic infection
- On CXR & CT
  - Diffuse vague/dense airspace disease ± interstitial opacities
  - Favors the lung periphery
  - Septal (Kerley B) lines << cardiogenic edema
  - Large pleural effusions uncommon

PATHOPHYSIOLOGY OF ARDS
Like falciparum malaria
- Diffuse alveolar damage
- Infected rbc’s adherent & attach to endothelial cells ◊ complement cascade ◊ inflammatory cytokines (TNF, IL-1), sensitization to endotoxin
- Increased endothelial permeability, hyaline membrane deposition, and alveolar hemorrhage.

Kemper CA et al. Semin Respir Infect. 1997;12:113–121

Residual peripheral and peribronchovascular opacities

@ 2 wks after initiating Rx
SUMMARY - ARDS IN BABESIOSIS

- Delayed onset greater than 72 h following initial signs of systemic infection.
- In patients with risk factors (age > 50, asplenia, depressed cellular immunity)
- Other severe complications in babesiosis: DIC, CHF, RF
- Babesiosis is a common tick-borne illness
- Usually asymptomatic or self-limiting mild illness.

REFERENCES