

CHESTPhysician

THE NEWSPAPER OF THE AMERICAN COLLEGE OF CHEST PHYSICIANS



Susan J. Sommer and Dr. Elizabeth R. Woods lead the program, which reduced asthma-related ED visits and hospital admissions.

Community Initiative Curbs Pediatric Asthma

BY SUSAN LONDON Elsevier Global Medical News

VANCOUVER, B.C. — An initiative that promotes improved asthma education and care at the family and community levels has reduced health care use and morbidity among disadvantaged children with asthma in Boston, according to Dr. Elizabeth R. Woods.

Four years into the Community Asthma Initiative, there was an 81% reduction in the percentage of participating children having asthma-related admissions, a 65% reduction in the percentage of children making emergency department visits, a 39% reduction in the percentage missing days of school because of asthma, and a 37% reduction in the percentage having limitations in physical activity because of the disease, Dr. Woods said at the annual meeting of the Pediatric Academic Societies.

The initiative targeted children from the four Boston neighborhoods with the highest asthma

rates and the greatest health disparities. The children and their families received case management and home visits by providers who helped them develop an individualized management plan, performed an environmental assessment, and supplied products such as vacuum cleaners with high-efficiency particulate air (HEPA) filters and bedding casings. Providers also instructed families in pest control techniques and connected them to community resources.

The initiative also targeted the community through an educational campaign and encouraged payers to address prohibitively high copayments for asthma medications.

Dr. Woods and her colleagues evaluated the effects of the initiative by analyzing parental reports and administrative data.

Results were based on 441 children (average age, 7.8 years) who had received case management through the initiative. Most were African American

See Asthma • page 6

Study Backs Low-Dose Oral Steroids For Acute COPD

High-dose IV steroids weren't superior.

BY MARY ANN MOON Elsevier Global Medical News

ow-dose oral corticosteroids are as effective as high-dose intravenous corticosteroids in the initial treatment of acute exacerbations of COPD, according to findings from a retrospective cohort study of nearly 80,000 COPD hospitalizations.

In the study, 92% of the patients were initially given highdose IV corticosteroids instead of less-risky low-dose oral steroids. This contrasts sharply with recommendations favoring a low-dose regimen included in clinical guidelines published by leading professional societies in the United States, the United Kingdom, and other European nations, said Dr. Peter K. Lindenauer of the Center for Quality of Care Research at Baystate Medical Center, Springfield, Mass., and his associates.

Dr. Lindenauer and his colleagues compared outcomes with these two treatment approaches using a database designed to measure health care quality and utilization. They reviewed the records of 79,985 hospitalizations for acute exacerbation of COPD at 414 U.S. medical centers over a 2-year period.

The study participants had a median age of 69 years and had COPD that was uncomplicated by pneumonia or pulmonary embolism. The primary outcome was a composite measure of treatment failure, defined as the need for mechanical ventilation after the second day of hospitalization; death during hospitalization; or readmission for COPD within 30 days of discharge.

Overall, 11% of patients had this primary outcome, with approximately 1% requiring

See Steroids • page 3

NSIDE

News

Pandemic Flu Still a Danger

Viral reassortment of 2009 H1N1 could result in another outbreak. • 2

Pulmonary Medicine Sildenafil Shows Promise

Drug improved quality of life in patients with idiopathic pulmonary fibrosis. • 3

Cardiothoracic Surgery

Selenium and Lung Cancer

Second tumors not prevented by supplement. • 7

Sleep Strategies Safe Driving

Conference tackles the issue of sleep apnea in long-distance truckers. • 8

News From the College

Things to Do in Vancouver

Enjoy the city during CHEST 2010. • 11

Novel OSA Agents in Pipeline

BY BRUCE JANCIN Elsevier Global Medical News

SAN ANTONIO — Although obstructive sleep apnea is closely associated with obesity, not all the drugs being developed for the treatment of OSA are based on weight loss as their mechanism of benefit.

For example, acetazolamide addresses ventilatory instability,

which has emerged as a potential novel therapeutic target in OSA. Another early study suggests the sedative eszopiclone (Lunesta) reduces sleep apnea severity and increases sleep duration by raising the respiratory arousal threshold, investigators reported at the annual meeting of the Associated Professional Sleep Societies.

Still, weight loss is the classic

source of pharmacologic improvement in OSA. The first drug shown to be of benefit in OSA patients was sibutramine (Meridia), a serotonin and noradrenaline reuptake inhibitor, noted Dr. Ronald R. Grunstein, professor of sleep medicine at the University of Sydney.

He was lead investigator in a

See OSA • page 2



DYNAMIC DUO

Thanks for making CHEST and CHEST Physician the top 2 publications read by pulmonologists!

(Kantar Media Medical/Surgical Readership Study, June 2010)



resorted Standard U.S. Postage Permit No. 384 Lebanon Jct. KY NEWS JULY 2010 • CHEST PHYSICIAN

Pandemic Flu Reassortment Could Pose New Threat

BY DENISE NAPOLI Elsevier Global Medical News

Researchers are warning that the pandemic 2009 H1N1 influenza strain has been combining with other influenza strains among Hong Kong swine, and that further viral reassortment among global swine populations could again cause a pandemic in humans.

"The 2009 pandemic, although mild and apparently contained at present, could undergo further reassortment in swine and gain virulence," wrote Dr. Dhanasekaran Vijaykrishna and

associates at the State Key Laboratory of Emerging Infectious Diseases at the University of Hong Kong. The investigators called for greater surveillance in swine and recommended "that all eight gene segments are genetically characterized so that such reassortment events are rapidly identified."

In their study, Dr. Vijaykrishna and colleagues looked at tracheal and nasal swab samples taken from swine at a Hong Kong slaughterhouse between June 11, 2009, and Feb. 4, 2010. Samples were taken every 2 weeks on up to 252 swine per

sampling occurrence, for a total of 4,101 samples of unique swine. Overall, H1N1 and H1N2 viruses were isolated from 32 samples (Science 2010;328:1529).

Pandemic flu viruses "isolated on the same sampling occasion were genetically identical, suggesting transmission of viruses occurred within swine herds," the researchers said.

However, "viruses from different sampling dates were genetically distinct from each other and also from [2009 H1N1]—like swine viruses isolated in other countries, indicating multiple independent introductions of

these viruses from humans to swine," they said.

But the greatest concern comes from a January 2010 sampling where a novel reassortant was discovered; the new strain was named A/swine/Hong Kong/201/2010(H1N1). This novel strain—with a hemagglutinin gene most closely resembling European avian-based influenzas and a neuraminidase gene likely derived from the 2009 swine-derived H1N1 strain—could be particularly contagious.

"Neither [the 2009 H1N1] vaccine nor natural infection reliably elicits cross-protective

antibody to A/swine/Hong Kong/201/2010," they wrote.

Further laboratory testing of the new strain revealed that while the virus was susceptible to oseltamivir, it was resistant to adamantanes. Viral shedding occurred among the infected swine for up to 13 days.

"The introduction of [pandemic H1N1] virus to swine has provided it with opportunities for reassortment," Dr. Vijay-krishna and coworkers wrote. This "reservoir of reassortment" could, if left unchecked, "produce novel viruses of potential threat to public health."

Weight Loss Not Only Target

OSA • from page 1

study that showed 6 months of sibutramine plus diet and exercise not only resulted in significant weight loss, but also brought marked improvement in OSA, reduced insulin resistance, raised HDL cholesterol, and decreased visceral, subcutaneous, and hepatic fat, with no change in blood pressure (J. Clin. Sleep Med. 2009;5:416-21).

At the sleep disorders meeting, audiences learned of another weight-loss drug with evidence of efficacy for OSA: Qnexa, an investigational once-daily proprietary combination of phentermine and controlled-release topiramate.

Dr. David H. Winslow presented a double-blind, single-center trial in which 45 obese patients with OSA were randomized to once-daily Qnexa at 15-mg phentermine/92-mg topiramate CR or to placebo for 28 weeks. At week 8, the mean apnea-hypopnea index (AHI) in the Qnexa group had dropped from a baseline of 45.5 to 19.1 events per hour. By week 28, their mean AHI had fallen to 13.5, compared with 27.2 in the placebo arm, reported Dr. Winslow, a chest physician and president of the Kentucky Research Group, Lexington.

The Qnexa group experienced a mean 11% reduction in body weight over the 28 weeks, twice that of the placebo group. Other statistically significant changes in the Qnexa group included a mean 15-mm Hg drop in systolic blood pressure from a baseline of 138 mm Hg, compared with a 7.3-mm Hg drop in controls, along with improvements in arousal index and overnight oxygen saturation.

"I think we may be looking at a new paradigm in the treatment of OSA," Dr. Winslow said in an interview. Qnexa is under Food and Drug Administration review for a proposed indication as a treatment for obesity; a regulatory decision is expected later this year.

Danny J. Eckert, Ph.D., of Brigham and Women's Hospital, Boston, presented a double-blind, randomized, crossover trial in which 17 untreated OSA patients received 3 mg of eszopiclone or placebo immediately prior to going to sleep during overnight polysomnography on two occasions in the sleep lab.

The patients' mean AHI was 24 events per hour on eszopiclone, compared with 31 per hour with placebo. Patients on eszopiclone also had a marked increase in total sleep time, from 5.3 hours on placebo to 6.8 hours, along with fewer arousals per hour and improved sleep quality, he reported.

Dr. Bradley A. Edwards, also of Brigham and Women's Hospital, presented a preliminary physiologic study in which six CPAP-treated patients with OSA underwent 2 nights of baseline polysomnography, and then took acetazolamide SR 500 mg twice daily for a week. This was followed by another 2 nights of polysomnography in which CPAP was intermittently turned down to subtherapeutic levels in order to see whether acetazolamide reduced ventilatory control instability. This indeed proved to be the case in all six patients. Moreover, five of the six patients experienced an associated reduction in AHI.

Dr. Winslow disclosed serving as a consultant to Vivus, which is developing Qnexa. Dr. Eckert's study was partly funded by a research grant from Sepracor. Dr. Grunstein's study was supported by Abbott Laboratories. Dr. Edwards reported no financial conflicts.

IN THIS ISSUE

News From the College • 8

NetWorks Update

Learn the latest on CABG, antibiotics, lung disease in the elderly, the Haiti disaster response, and IPF treatment. • 12

CHEST PHYSICIAN IS Online

CHEST PHYSICIAN is available on the Web at www.chestnet.org/ accp/chest-physician.

AMERICAN COLLEGE OF CHEST PHYSICIAN S®

AMERICAN COLLEGE OF CHEST PHYSICIANS Editor in Chief Paul A. Selecky, M.D., FCCP President Kalpalatha K. Guntupalli, M.D., FCCP Executive Vice President and CEO

Paul A. Markowski, CAE
Vice President, Communications Stephen J. Welch
Assistant Vice President, Editorial Resources

Pamela L. Goorsky

Medical Copy Editor Peggy E. Perona, R.D.
Section Editors

Marilyn G. Foreman, M.D., FCCP - Pulmonary Perspectives Editor Loren J. Harris, M.D., FCCP - Pulmonary Perspectives Deputy Editor Neil Halpern, M.D., FCCP - Critical Care Commentary James Parish, M.D., FCCP - Sleep Strategies

EDITORIAL ADVISORY BOARD

W. Michael Alberts, M.D., FCCP, Florida Joseph Barney, M.D., FCCP, Alabama Jun Chiong, M.D., FCCP, California Stephen Field, M.D., FCCP, California Nicola A. Hanania, M.D., FCCP, Texas Carl Kaplan, M.D., FCCP, Missouri Burt Lesnick, M.D., FCCP, Georgia Philip Marcus, M.D., MPH, FCCP, New York Mark L. Metersky, M.D., FCCP, Connecticut Jeana O'Brien, M.D., FCCP, Texas Nirupam Singh, M.D., California

E-mail: chestphysiciannews@chestnet.org

CHEST PHYSICIAN

CHEST PHYSICIAN, the newspaper of the American College of Chest Physicians, provides cutting-edge reports from clinical meetings, FDA coverage, clinical trial results, expert commentary, and reporting on the business and politics of chest medicine. Each issue also provides material exclusive to the members of the American College of Chest Physicians. Content for CHEST PHYSICIAN is provided by International Medical News Group and Elsevier Global Medical News. Content for NEWS FROM THE COLLEGE is provided by the American College of Chest Physicians.

The statements and opinions expressed in **CHEST Physician** do not necessarily reflect those of the American College of Chest Physicians, or of its officers, regents, members, and employees, or those of the Publisher. The American College of Chest Physicians, its officers, regents, members, and employees, and Elsevier Inc. do not assume responsibility for damages, loss, or claims of any kind arising from or related to the information contained in this publication, including any claims related to products, drugs, or services mentioned herein.

Address Changes: Fax changes of address (with old mailing label) to 973-290-8245.

POSTMASTER: Send change of address (with old mailing label) to CHEST Physician, 60 B Columbia Rd., 2nd flr., Morristown, NJ 07960.

CHEST PHYSICIAN (ISSN 1558-6200) is published monthly for the American College of Chest Physicians by Elsevier Inc., 60 B Columbia Rd., 2nd flr., Morristown, NJ 07960, 973-290-8200, fax 973-290-8250.

 $\label{eq:copyright}$ 2010, by the American College of Chest Physicians

ELSEVIER SOCIETY NEWS GROUP, A DIVISION OF INTERNATIONAL MEDICAL NEWS GROUP

President, IMNG Alan J. Imhoff Director, ESNG Mark Branca Editor in Chief Mary Jo M. Dales

Executive Editors Denise Fulton, Kathy Scarbeck

Managing Editor Terry Rudd

Deputy Managing Editor Jay C. Cherniak

Circulation Analyst Barbara Cavallaro, 973-290-8253, b.cavallaro@elsevier.com

Executive Director, Operations Jim Chicca **Director, Production and Manufacturing** Yvonne Evans

Production Manager Judi Sheffer **Creative Director** Louise A. Koenig

Display Advertising Manager The Walchli Tauber Group: 443-512-8899, fax 443-512-8909, greg.pessagno@wt-group.com

ADVERTISING OFFICES 60 B Columbia Rd., 2nd flr., Morristown, NJ 07960, 973-290-8200, fax 973-290-8250

CLASSIFIED ADVERTISING OFFICES The Walchli Tauber Group, 2225 Old Emmorton Rd., Suite 201, Bel Air, MD 21015, 443-512-8899

EDITORIAL OFFICES 5635 Fishers Lane, Suite 6000,

Rockville, MD 20852, 240-221-4500, fax 240-221-2541



Haraman Iloprost May Prevent Lung Cancer in Former Smokers

BY CRAIG GUILLOT
Elsevier Global Medical News

NEW ORLEANS — The oral prostacyclin analogue iloprost showed signs it could prevent some lung cancer in a study of 152 longtime current and former smokers

Prostacyclin has proved to prevent lung cancer in mice. Authors of the current study, presented at an international conference of the American Thoracic Society, confirmed that oral doses of the drug can significantly improve dysplasia in former smokers.

The phase II clinical trial began with 71 former smokers and 81 current smokers, each with more than 20 packyears of tobacco exposure. Subjects had to have at least mild sputum cytologic atypia and no previous history of cancer.

The researchers performed autofluorescence and white light bronchoscopy on each participant and biopsies of six standard endobronchial sites. These were scored 1-8 by World Health Organization criteria, where 1 is normal and 8 represents invasive cancer. Endobronchial histology was ranked in patients by three measures: worst biopsy score (Max), dysplasia index (DI), and the average of all biopsy scores (Avg).

Subjects were randomized to oral iloprost or a placebo in escalating doses for 6 months. A second fluorescent bronchoscopy was then performed along with a repeat biopsy of all the central airway areas sampled at the beginning of the study. The follow-up bronchoscopy was performed on 65 study participants in the placebo group and 60 in the iloprost group. Reasons for dropping out were ineligibility, toxicity, and refusal of further treatment.

Among former smokers, those in the oral iloprost group showed significant

Dr. W. Michael Alberts, FCCP, comments: Very few chemoprevention studies have shown benefit. This positive phase II study of oral iloprost in former smokers with dysplasia is encouraging. Let's hope that subsequent studies confirm the beneficial results.

improvement on all histologic measures, while former smokers receiving placebo showed declines. For the former smokers getting iloprost, the changes were 0.41 better in Avg, 1.1 points better in Max, and 11.6% better in DI than among those getting placebo. Current smokers did not show any such improvement in the drug or placebo groups.

The most common adverse effects exhibited in the original 75 members of the iloprost group included headache, flushing, and nausea.

The trial was led by Dr. Robert Keith of the Denver Veterans Affairs Medical Center and the University of Colorado, Denver. He has been testing several drugs to prevent lung cancer, and his disclosures included financial relationships with Pfizer and Boehringer-Ingelheim.

"This was the first study to show improvement, and I think this will ultimately go to a phase III trial and will involve people that are at the absolute highest risk" of lung cancer, Dr. Keith said. "I think we can now work closely with [the National Cancer Institute] to say that prevention is viable."

Iloprost is approved in inhaled forms to treat scleroderma, pulmonary hypertension, and Raynaud's phenomenon. The drug is marketed under the brand name Ventavis by Swiss drug maker Actelion and also comes in an intravenous form called Ilomedin.

Sildenafil May Improve Quality of Life in IPF Patients

BY CRAIG GUILLOT
Elsevier Global Medical News

NEW ORLEANS — Sildenafil might improve quality-of-life indicators in patients with idiopathic pulmonary fibrosis, according to the first multicenter, randomized trial to enroll patients at an advanced stage of the disease. However, the Sildenafil Trial of Exercise Performance in Idiopathic Pulmonary Fibrosis (STEP-IPF) failed to show an effect of the drug on lung function, the study's primary end point.

The improvement in quality-of-life measures, a secondary end point in the study, is encouraging, said Dr. David A. Zisman, FCCP, of the interstitial lung disease program at the University of California, Los Angeles

For the double-blind, placebo-controlled trial, the researchers recruited 180 participants from 14 IPF Clinical Research Network (IPFnet) centers across the country. Patients were randomized to receive oral sildenafil (20 mg, three times daily) or placebo for 12 weeks.

By the end of that period, nine subjects in the sildenafil group and six in the place-bo group had increased their distance in the 6-minute walk trial by at least 20%—a standardized indicator of lung function. The difference was not significant.

But participants taking sildenafil had slightly better arterial oxygenation and reported less shortness of breath, Dr. Zisman said at an international conference of the American Thoracic Society. The study was also published online (N. Engl. J. Med. 2010 May 18 [doi:10.1056/NEJMoa1002110]).

The team did three tests of quality of life, including the St. George's Respiratory Questionnaire, in which a higher total indicates worse function. At 12 weeks, the sildenafil group had a total score of –1.64, and the placebo group scored 2.45.

On the Medical Outcomes Study

36-Item Short-Form Health Survey (SF-36), the sildenafil group better preserved its general health score, a subcategory of the test. The third quality-of-life test, the EuroQol Group 5-Dimension Self-Report Questionnaire (EQ-5D), showed no significant difference.

"I think this mainly opens the door and promises another avenue to treat or slow progression of the disease," Dr. Zisman said. He added that sildenafil might be of value to patients with advanced IPF and that the data could prompt further trials. The results also suggest that phosphodiesterase type 5 inhibition might have a role in slowing disease progression, he said.

No major difference was seen in serious adverse effects with the drug and placebo. During the trial, two people died in the sildenafil group, and four died in the placebo group.

Sildenafil stabilizes cyclic guanosine monophosphate (cGMP) and leads to vasodilatation in well-ventilated areas of the lung. It is manufactured by Pfizer under the brand names Revatio and Viagra.

Dr. Zisman disclosed that he is on the advisory board of Gilead Sciences. The STEP-IPF study was funded by the National Institutes of Health.

COMMENTARY

Dr. Philip Marcus, MPH, FCCP, comments: Sildenafil has been used for the treatment of pulmonary hypertension, and in the population of patients with IPF, many do develop pulmonary hypertension. Accordingly, whether sildenafil treats the disease or slows progression of IPF may be overshadowed by the ability of this PDE5 inhibitor to reduce pulmonary vascular resistance and improve quality of life.

Low Dose as Effective

Steroids • from page 1

mechanical ventilation, 1% dying during hospitalization, and 9% being readmitted.

A total of 92% of patients were initially treated with high-dose IV steroids, and 8% were started on low-dose oral steroids. The composite outcome of treatment failure occurred in 10.9% of patients given high-dose IV steroids and 10.3% of those given low-dose oral steroids, a nonsignificant difference. Similarly, the individual outcome of in-hospital mortality was approximately 1% in both groups, they said (JAMA 2010;303:2359-67).

Further analysis showed that patients given oral steroids as recommended had lower hospital costs and shorter lengths of stay. Previous studies of the issue have shown that the oral route decreases patient pain and immobility, they added.

The findings clearly show that not complying with treatment recommendations and instead giving high-dose IV steroids to patients with acute exacerbations of COPD "does not appear to be associated with any measurable clinical benefit and at the same time exposes patients to the risks and inconvenience of an

intravenous line, potentially unnecessarily high doses of steroids, greater hospital costs, and longer lengths of stay," Dr. Lindenauer and his associates said.

"Because high-dose IV therapy is so common and because patients with COPD are hospitalized frequently for exacerbations, our findings have a significant potential to alter practice," they added.

Dr. Jerry A. Krishnan, FCCP, of the University of Chicago, and Dr. Richard A. Mularski, FCCP, of Kaiser Permanente and Oregon Health and Science University, Portland, commented in an editorial that the study shows that "real-world practice was largely inconsistent with current guideline recommendations to use lower

doses of corticosteroids administered orally."

Given the lack of clinical trial evidence regarding treatment options for exacerbations of acute COPD, they said, rigorous observational study data from studies such as this one "are sufficient to take action to change practice now" to support greater use of oral steroids. But "given that current practice overwhelmingly favors high-dose intravenous corticosteroids, facilitating change will be daunting."

The authors noted that the study was limited in that it was observational, the treatment assignments were not randomized, and the choice of therapy may have been influenced by symptom severity at presentation.

COMMENTARY

Dr. Nicola A. Hanania, FCCP, comments: The use of systemic corticosteroids in the management of acute exacerbations of COPD is essential and has been shown to affect clinical outcomes and rates of relapse of exacerbations. It is not known, however, whether intravenous high-dose

corticosteroids are superior to lower-dose oral corticosteroids in such circumstances. This report is based on an observational, retrospective analysis of a large database suggesting that both methods of administration are associated with similar outcomes. Similar observations have been described in the management of acute asthma, as well. However, because the design of such a study may be associated with selection and treatment allocation bias, one cannot draw firm conclusions. Prospective studies to confirm these findings are needed.





Some patients have ZYVOX written all over them

With proven efficacy, excellent tissue penetration, and clear and consistent dosing, count on ZYVOX to treat MRSA* in patients with nosocomial pneumonia whose conditions are complicated by renal insufficiency.¹⁻³

Please see www.zyvox.com for further information



ZYVOX is indicated in the treatment of the following infections caused by susceptible strains of the designated microorganisms:

Nosocomial pneumonia caused by *Staphylococcus aureus* (methicillin-susceptible and -resistant strains) or *Streptococcus pneumoniae* (including multidrugresistant strains [MDRSP]).

Complicated skin and skin structure infections, including diabetic foot infections, without concomitant osteomyelitis, caused by *Staphylococcus aureus* (methicillin-susceptible and -resistant strains), *Streptococcus pyogenes*, or *Streptococcus agalactiae*. ZYVOX has not been studied in the treatment of decubitus ulcers

ZYVOX use is contraindicated in patients with known hypersensitivity to linezolid or any of the other product components.

ZYVOX should not be used in patients taking any medicinal product which inhibits monoamine oxidases A or B (e.g. phenelzine, isocarboxazid) or within 2 weeks of taking any such product.

Unless patients are monitored for potential increases in blood pressure, ZYVOX should not be administered to patients with uncontrolled hypertension, pheochromocytoma, thyrotoxicosis and/or patients taking any of the following: directly and indirectly acting sympathomimetic, vasopressive, and dopaminergic agents.

Unless patients are carefully observed for signs and/or symptoms of serotonin syndrome, ZYVOX should not be administered to patients with carcinoid syndrome and/or patients taking any of the following medications: serotonin reuptake inhibitors, tricyclic antidepressants, serotonin 5-HT1 receptor agonists, meperidine, or buspirone.

Spontaneous reports of serotonin syndrome have been reported with the coadministration of ZYVOX and serotonergic agents. If signs or symptoms of serotonin syndrome, such as cognitive dysfunction, hyperpyrexia, hyperreflexia, and incoordination occur, discontinuation of one or both agents should be considered.

Myelosuppression (including anemia, leukopenia, pancytopenia, and thrombocytopenia) has been reported in patients receiving ZYVOX. In cases where the outcome is known, when ZYVOX was discontinued, the affected

hematologic parameters returned to pretreatment levels. Complete blood counts should be monitored weekly, particularly in patients who receive ZYVOX for longer than 2 weeks.

ZYVOX is not approved and should not be used for the treatment of patients with catheter-related bloodstream infections or catheter-site infections.

ZYVOX has no clinical activity against Gram-negative pathogens and is not indicated for the treatment of Gram-negative infections. It is critical that specific Gram-negative therapy be initiated immediately if a concomitant Gram-negative pathogen is documented or suspected.

Clostridium difficile associated diarrhea has been reported with use of nearly all antibacterial agents, including ZYVOX, and may range in severity from mild diarrhea to fatal colitis.

Lactic acidosis has been reported with the use of ZYVOX. Patients receiving ZYVOX who develop recurrent nausea, vomiting, unexplained acidosis, or a low bicarbonate level should receive immediate medical evaluation.

Peripheral and optic neuropathy have been reported primarily in patients treated with ZYVOX for longer than the maximum recommended duration of 28 days. If patients experience symptoms of visual impairment, prompt ophthalmic evaluation is recommended.

Convulsions have been reported in patients treated with ZYVOX. In some of these cases, a history of seizures or risk factors for seizures was reported.

The most commonly reported adverse events in adults across phase 3 clinical trials were diarrhea, nausea, and headache.

*Methicillin-resistant *Staphylococcus aureus.*

References: 1. Rubinstein E, Cammarata SK, Oliphant TH, Wunderink RG; and Linezolid Nosocomial Pneumonia Study Group. Linezolid (PNU-100766) versus vancomycin in the treatment of hospitalized patients with nosocomial pneumonia: a randomized, double-blind, multicenter study. *Clin Infect Dis.* 2001;32(3):402-412. **2.** Wunderink RG, Cammarata SK, Oliphant TH, Kollef MH; for Linezolid Nosocomial Pneumonia Study Group. Continuation of a randomized, double-blind, multicenter study of linezolid versus vancomycin in the treatment of patients with nosocomial pneumonia. *Clin Ther.* 2003;25(3):980-992. **3.** Boselli E, Breilh D, Rimmelé T, et al. Pharmacokinetics and intrapulmonary concentrations of linezolid administered to critically ill patients with ventilator-associated pneumonia. *Crit Care Med.* 2005;33(7):1529-1533.

Please see brief summary on adjacent pages.

Cost of Care Cut in Half

Asthma • from page 1

(48%) or Latino/Hispanic (45%), and had public health insurance (70%).

Between baseline and 12 months, the proportion of children making asthmarelated emergency department visits fell from 63% to 22%, hospital admissions due to asthma fell from 51% to 10%, and the proportion of children who missed days of school because of asthma dropped from 93% to 56%. In addition, the proportion of children who had

physical activity limitations due to asthma dropped from 55% to 35%.

The proportion of children with an up-to-date asthma action plan increased by 71% (from 49% to 84%).

In logistic regression analyses controlling for potential confounders, the children had significant 90%-100% reductions in the odds of each adverse outcome, noted Dr. Woods, a pediatrician at Children's Hospital Boston.

In the first year of the initiative, the cost of care per child was similar to that in a control neighborhood (\$1,335 vs. \$1,340). In the second year, it was approximately half as expensive in the initiative group (\$750 vs. \$1,322).

Dr. Woods noted that the initiative seems to be helping families in two main ways: understanding medications and addressing environmental issues. "Very few of these families had even a vacuum cleaner, let alone ones with HEPA bags and filters. These are incredibly helpful and much less costly than additional medication," she said.

Dr. Burt Lesnick, FCCP, comments: Education, use of asthma management plans, and improving the home environment can have an impressive positive effect on children's asthma morbidity and treatment costs. It would be interesting to see if subgroups could be identified, by phenotype or genotype, for which this comprehensive intervention is most effective.

ZYVOX® linezolid injection, tablets and for oral suspension Brief summary of prescribing information.

INDICATIONS AND USAGE ZYVOX formulations are indicated in the treatment of the following infections caused by susceptible strains of the designated microorganisms (see PRECAUTIONS, Pediatric Use). Vancomycin-Resistant Enterococcus faecium infections, including cases with concurrent bacteremia. Nosocomial pneumonia caused by Staphylococcus aureus (methicillin-susceptible and -resistant strains) or Streptococcus pneumoniae (including multidrug-resistant strains IMDRSP*)). Complicated skin and skin structure infections, including diabetic foot infections, without concomitant osteomyelitis, caused by Staphylococcus aureus (methicillin-susceptible and -resistant strains), Streptococcus progenes, or Streptococcus agalactiae. ZYVOX has not been studied in the treatment of decubitus ulcers. Uncomplicated skin and skin structure infections caused by Staphylococcus aureus (methicillin-susceptible only) or Streptococcus progenes. Community-acquired pneumonia caused by Streptococcus pneumoniae (including multidrug-resistant strains IMDRSP*)), including cases with concurrent bacterenia, or Staphylococcus aureus (methicillin-susceptible only). To reduce the development of drug-resistant strains IMDRSP*)), including cases with concurrent bacterenia, or Staphylococcus aureus (methicillin-susceptible bacteria. When culture and susceptibility information are available, they should be considered in selecting or modifying antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of therapy.

infections that are proven or strongly suspected to be caused by susceptible bacteria. When culture and susceptibility information are available, they should be considered in selecting or modifying antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection or modifying antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of the control of the contr

strongly suspected bacterial infection or a prophylactic indication is unlikely to provide benefit to the patient and increases the risk of the development of drug-resistant scales with or without food. They should inform their bryakian if they have a history of hypertension. Large quantities of foods or beverages with high tyramine content should be avoided while taking 2700. Quantities of ryamine consumer should be resided while taking 2700. Quantities of ryamine consumer should be avoided with leaking 2700. Quantities of ryamine consumer should be avoided with leaking 2700. Quantities of ryamine consumer should be avoided with leaking 2700. Quantities of ryamine consumer should be avoided while taking 2700. Quantities of ryamine per should be resided meast 61. to 8 mg tyramine per ounce; sheurer or uncer, sheurer or uncertainty or

Selenium Failed to Prevent Second Lung Cancers

Elsevier Global Medical News

CHICAGO — Selenium supplementation does not prevent second cancers in survivors of early-stage lung cancerand may even make these patients more vulnerable to new tumors.

Indeed, although the differences did not reach statistical significance, patients who used supplements developed more who used supplements developed more
second cancers, including lung tumors,
dian of more thansecond cancers,
lung lung tumors,
dian of more thanlung developed the lung developed to more dependent on the lung developed to more deve second cancers, including lung tumors,

than those who did not take selenium in a randomized, controlled phase III chemoprevention trial that was stopped early for futility.

We can say for sure that the selenium was not beneficial," Dr. Daniel Karp said at the annual meeting of the American Society of Clinical Oncology, where he presented data on 1,522 patients who had been randomized from October 2000 to November 2009 and followed for a median of more than 4 years.

As of August 2009, the trial population had developed 216 second primary tumors, including 84 new lung cancers in 83 patients (one patient had two new lung tumors). The incidence of second primary tumors was 1.91 per 100 person-years followed in the selenium group vs. 1.36 per 100 person-years in the placebo group. Overall, the incidence of second primary tumors of any type after 1 year was 4.11% in the selenium cohort and 3.66% among

those not given supplementation.

The Eastern Cooperative Oncology Group (ECOG) started the intergroup trial after a study that failed to show selenium could prevent skin cancers suggested that it could reduce the incidence of lung, colorectal, and prostate cancers by as much as 30% (JAMA 1996;276:1957-63). The ECOG trial enrolled patients 6-36 months after complete resection of stage 1 non-small cell lung cancer. All had no sign of disease on biopsy.

The progression-free survival rate at 5

years was also slightly better in the place-

bo group (78% vs. 72%), as was overall

survival at 3 years (90% vs. 85%) and 5

years (80% and 75%).



'We can say for sure that the selenium was not beneficial.'

daily of selenium yeast for 4 years or placebo yeast. Most patients had normal selenium levels when they entered the trial, said Dr. Karp, a professor of thoracic/head and neck medical oncology at the University of Texas M.D. Anderson Cancer Center in Houston.

Particularly concerning, he noted, was that the amount of selenium in the supplement used in the trial is comparable to the amount in most daily multivitamins. 'We need to find people who are deficient and make sure they have a normal amount," he said, questioning the wis-

slight trend toward benefit from selenium, he said.

Dr. Karp disclosed receiving research funding from Pfizer.

> Dr. W. Michael Alberts, FCCP, comments: This study points out the potential danger of sup-

DR. KARP Randomization was 3:1 to 200 mcg

dom of giving supplements to everyone. Also noteworthy was that active smokers had a 30% chance of developing lung cancer at 5 years vs. 24% for former smokers and 20% for never smokers. A subgroup of 94 never smokers had a

One possibility Dr. Karp suggested in a press briefing is that antioxidants might have a harmful effect in the presence of carcinogens such as tobacco. Another study found worse outcomes-higher incidence of lung cancer and risk of death from the disease—in people who took beta-carotene (N. Engl. J. Med. 1996:334:1150-5).

identified in Phase 3 clinical trials in patients developing thrombocytopenia. Bleeding events were identified in thrombocytopenic patients in a compassionate use program for ZYVOX, the role of linezolid in these events cannot be determined (see WARNINGS). Changes seen in other laboratory parameters, without regard to drug relationship revealed no substantial differences between ZYVOX and the comparators. These changes were generally not clinically significant, did not lead to discontinuation of therapy, and were reversible. The percent of adult patients with at least one substantially abnormal hematologic value in patients treated with ZYVOX 400 mg qt2h or clarithromycin 250 mg qt2h for uncomplicated skin and skin structure infections were as follows, hemoglobin (gd1 0.9 and 0.0) platelet count x 0.70 mm³ 0.7 and 0.8 metrophilis (x 10 mm³ 0.7 and 0.2 respectively. The percent of adult patients with at least one substantially abnormal hematologic value in patients treated with ZYVOX 600 mg qt2h or a comparator³ were as follows, hemoglobin (gd1 0.9 and 0.0 mg qt2h or a comparator³ were as follows; hemoglobin (gd1 0.7 and 0.6 patienter count (x 10 mm³ 0.3 and 1.8, MBC (x 10 mm³ 1.2 and 1.3 and neutrophilis (x 10 mm³ 1.1 and 1.2 mespectively. The percent of adult patients with at least one substantially abnormal serum chemistry. Alue in patients treated with ZYVOX 600 mg qt2h or clarithromycin 2.0 mg qt2h for uncomplicated skin and skin structure infections were as follows. AST (U/L) 1.7 and 1.3 and 1.2 and 0.2 isotal bilirubin (mg/dL) 0.2 and 0.2 ilpase (U/L) 2.3 and 2.6 mm/dL) 2.2 and 0.2 ilpase (U/L) 2.3 and 2.6 mm/dL) 2.2 and 0.2 ilpase (U/L) 2.3 and 2.6 mm/dL) 2.2 and 0.2 ilpase (U/L) 2.3 and 2.6 mm/dL) 2.2 and 0.2 ilpase (U/L) 2.3 and 2.6 mm/dL) 2.2 and 0.2 ilpase (U/L) 2.3 and 2.6 mm/dL) 2.2 and 0.2 ilpase (U/L) 2.3 and 2.6 mm/dL) 2.2 and 0.2 ilpase (U/L) 2.3 and 2.6 mm/dL) 2.2 and 0.2 ilpase (U/L) 2.3 and 2.6 mm/dL) 2.2 and 0.2 ilpase (U/L) 2.3 and 2.6 mm/dL) 2.2 and 0.2 ilpase (U/L) 2.3 and Clinical signs of acute toxicity in animals were decreased activity and ataxia in rats and vomiting and tremors in dogs treated with \$000 mg/kg/day and 2000 mg/kg/day, respectively.

*MDRSP refers to isolates resistant to 2 or more of the following antibiotics: penicillin, second-generation cephalosporins, macrolides, tetracycline, and trimethoprim/sulfamethoxazole.

†Comparators included cefpodoxime proxetil 200 mg PO q12h; ceftriaxone 1 g IV q12h; clarithromycin 250 mg PO q12h; dicloxacillin 500 mg PO q6h; oxacillin 2 g IV q6h; vancomycin 1 g IV q12h.

†The most commonly reported drug-related adverse events leading to discontinuation in patients treated with ZYVOX were nausea, headache, diarrhea, and vomiting.

§Comparators included cefpodoxime proxetil 200 mg PO q12h; ceftriaxone 1 g IV q12h; dicloxacillin 500 mg PO q6h; oxacillin 2 g IV q6h; vancomycin 1 g IV q12h.

Patients 5 through 11 years of age received ZYVOX 10 mg/kg PO q12h or cefadroxil 150 mg PO q12h.

Patients from birth through 11 years of age received ZYVOX 600 mg PO q12h or cefadroxil 500 mg PO q12h.

*Patients from birth through 11 years of age received ZYVOX 10 mg/kg IV/PO q8h or vancomycin 10 to 15 mg/kg IV q6-24h, depending on age and renal clearance.

*These reports were of 'red-man syndrome,' which were coded as anaphylaxis.

**25% (<50% for neutrophils) of Lower Limit of Normal (LLN) for values normal at baseline; >25% (<50% for neutrophils) of LLN and of baseline for values abnormal at baseline; >27 upper Limit of Normal (ULN) for values normal at baseline; >27 upper Limit of Normal (ULN) for values normal at baseline; >2 x Uln and >2 (<1.5 for total bilirubin) x baseline for values abnormal at baseline.

Rx only

Rev. May 2008 Clinical signs of acute toxicity in animals were decreased activity and ataxia in rats and vomiting and tremors in dogs treated with 3000 mg/kg/day and 2000 mg/kg/day

Rev. May 2008

© 2010 Pfizer Inc.

All rights reserved.

plements. Not only did supplemental selenium fail to prevent second lung cancer, but those in the active medication group actually developed more second cancers. The latter did not reach statistical significance, but the point is made. Supplements are not necessarily beneficial—and may be harmful.



Sleep Apnea and Trucking: On the Road to Health and Safety

Sleep Institute®

American College

of Chest Physicians

he American Sleep Apnea Association (ASAA) organized and presented the Sleep Apnea Trucking Conference 2010 (SATC 2010) this May in Baltimore, MD. The conference was cosponsored by the Federal Motor Carrier Safety Administration (FMCSA) and American Trucking Associations (ATA). This day-long program brought together major stakeholders concerned with public policy issues for obstructive sleep apnea (OSA) and the commercial motor vehicle (CMV) driver in an effort to increase awareness, present current programs and research in development, and stimulate forward thinking to work together on this public health issue.

The speakers, and over 400 audience members, included those from governmental agencies (regulatory and advisory), professional truckers (Owner Operator Independent Drivers Association [OOIDA] and major trucking firms), sleep apnea management programs, and the medical community (sleep and occupational medicine). The American College of Chest Physicians (ACCP) was one of many additional supporters. The program was preceded by an evening reception with welcome by Edward Grandi, Executive Director of ASAA, and Mark Berger of Precision Pulmonary Diagnostics. Speakers included Anne Ferro, FMCSA Administrator; Christopher Hart, Vice-Chairman of the National Transportation Safety Board (NTSB); and Jeffrey Burns, Esq., who serves several organizations for improved highway safety, including the Truck Safety Coalition.

Meeting Highlights

Dr Mary Gunnels (FMCSA Office of Medical Programs) emphasized the large trucking population (400,040 medical examinations monthly) targeted by future regulations. There is increasing awareness of the relationship of obesity and general health concerns, as well as the increase for the risk for OSA. Sleep apnea and sleep disorders are sources for fatigue, and fatigue has been identified as a cause of motor vehicle crashes. The upcoming national registry for medical examiners will include new language and education about sleep apnea.

Dr Martin Walker (FMCSA Chief of Research) reviewed data published May 2002 on the prevalence of OSA in CMV drivers of 28% (17.6% mild, 5.8% moderate, 4.7% severe), with increases noted with age and body mass



Dr James Parish, FCCPSection Editor, *Sleep Strategies*

index (BMI), as well as 6 or fewer hours of sleep. Severe OSA is associated with increased risk of severe crashes in CMV drivers.

Dr Walker questioned the current status of OSA diagnosis and treatment availability and adherence, and he called for better screening tools, more research on OSA with crash risk, low cost validated testing, determinants of compliance, and better outreach regarding health and safety issues. He presented information about the campaign, "Get on the Road to Better Health: Recognizing the Dangers of Sleep Apnea," by the National Sleep Foundation and FMCSA. He discussed the FMCSA request for proposals for a Commercial Driver Individual Differences Study (CDIDS), studying 21,000 CMV drivers to identify 3,000 cases (crash within the last 3 yr) and 3,000 controls assessing driver factors with high risk for crashes, and a substudy of 1,200 undiagnosed drivers at risk for OSA to undergo testing and treatment to develop a cost effective approach and evaluate linkage to crash risk.

Public health issues, linked to the Department of Health and Human Services Healthy People 2020 (www. healthypeople.gov/HP2020), were discussed by Dr Karl Sieber (National Institute for Occupational Safety and Health - NIOSH). He indicated that the increased evaluation for OSA appears to be associated with decreased crashes and stressed importance of monitoring for insufficient sleep. He reviewed a cross-sectional study surveying long haul truck drivers, conducted at 50 truck stops nationally, including healthrelated scales, such as the Trucker Strain Monitor scale (De Croon et al. Int Arch Environ Health. 2001;74[6]: 429-436), a 10-item scale assessing workrelated fatigue and sleeping problems. He invited interested members to attend the CD health and wellness conference November 8-10, 2010 (www.TRB.org/Conferences/ HealthWellness2010.aspx).

Dr Larry Epstein (Sleep Health Centers Chief Medical Officer) presented the medical overview of OSA symptoms, health risk, diagnosis, and treatment. This raised questions regarding treatment options and compliance from the audience. A common concern, and potential limitation, is the requirement for objective documentation of compliance. At this time, the only OSA treatment that can be objectively monitored is CPAP. Several dental professionals in the audience raised questions about oral appliance treatment. While potentially effective in many people with OSA, the lack of monitoring capability precludes this option for the commercial trucker.

The medicolegal issues, presented by R. Clay Porter, Esq, comprise a large area of concern for truckers, businesses, health-care providers, and government. Open discussions regarding cases of traffic accidents in the trucking industry and general population focused on liability. Questions that were raised about how to determine when a driver is unsafe to drive addressed the differences in the medical guidelines vs legal requirements in the current language. Issues regarding fatigue risks, inaccuracies in documentation (logs, disclosed medications), and the weight of safety and risk on the driver were discussed. At this time, Department of Transporation disqualification takes priority over guidelines provided by the American Disabilities Act.

Dr Natalie Hartenbaum (Occumedix) brought out one of the group's concerns regarding screening guides. The community has debated whether a

BMI greater than 30 (screen most) vs BMI greater than 33 (screen highest risk) is the better parameter. She also highlighted that medical examiners must consider OSA when evaluating these individuals: that it is not in the driver's best interest, or the public's safety, to look the other way. She, too, discussed CPAP therapy as the current gold standard due to the need for objective compliance. Still unclear is the role of the sleep vs occupational medical provider to sign off on the medical certificate. The "wait period" of 1 month for treatment response raised numerous concerns about patient safety against job/employment security, while Dr Hartenbaum reminded the audience that this was no different than the medical recommendations for the newly diagnosed diabetic or person with coronary artery disease.

Bob Stanton, "just a trucker with sleep apnea" and co-founder of the Truckers with a Cause, a virtual AWAKE group, offered the view as a professional driver and one diagnosed with sleep apnea. While fully supportive of the importance of diagnosis and treatment, he raised a number of unique challenges for even the compliant trucker using CPAP on the road and in the cab of the truck. He also shared his concerns about the risk to livelihood for those without large industry support during initial diagnosis and treatment.

Several representatives from various sleep apnea management programs outlined methods of enhancing availability for diagnosis and treatment for those living on the road. The program concluded with speakers for Schneider National (Don Osterberg) and JB Hunt (Debra Plumlee) who have successfully incorporated such programs into their companies. Raphael Warshaw spoke on behalf of OOIDA and presented the particular challenges facing the individual owner-operator trucker who may not have the safety net of industry support for costs of diagnosis, treatment, and risk to livelihood of out of service time following the diagnosis.

In summary, the association of OSA, fatigue, and crash risk is largely accepted, but its magnitude within the trucking industry and the solution to the problem remain challenged. The Sleep Apnea and Trucking Conference raised many issues regarding sleep and appropriate health care for truck drivers. Who is responsible for clarifying the rules for identification of at-risk truckers? Who will cover the costs of screening programs, diagnosis, and related treatment? Who is responsible for monitoring compliance and ultimate medical clearance? As truck drivers are mobile and can be traveling for weeks

at a time, there are unique challenges with access to testing and treatment facilities.

Other acknowledged concerns include limited treatment options

with CPAP as the only acceptable noninvasive therapy, documentation of adherence, and guidelines on how much adherence is adequate and the relationship of treatment to improved fatigue and accident risk reduction. How do all of these issues affect the industry-employed vs independent owner-operator trucker? Besides the public health and safety risk issues, there remain individual concerns regarding employment risk. Unfortunately, many of the logistic questions seemed to override the concern for the individual's health and safety.

While there were no major decisions reached, there was general consensus that more dialogue is needed. While the regulatory bodies plan a continued search for objective data for future decision making, there was no response to the audience concerns for current definitive language. The audience was promised a new regulatory document in the making, with a call for better guidelines, more definitive statements, and a clearer path to diagnosis and treatment.

Many voiced the need to "do this again," focusing on sleep-related health of the professional driver (trucker, bus driver, and others with a commercial drivers license). However, with a majority of Americans getting inadequate sleep, drowsy driving issues extend far greater than just sleep apnea in the professional driver, and future policies will hopefully reflect these high-risk health and safety issues. Additional information and links on this topic are available at the official SATC 2010 Web site, www.satc2010.org.

Dr Rochelle Goldberg, FCCP Arizona Regional Medical Director REM Medical, a Sleep HeathCenters® Company, Phoenix, AZ and Dr Laura Herpel, FCCP

Dr Laura Herpel, FCCP
Assistant Professor of Medicine
Director, MUSC Sleep Center
Medical University of South Carolina
Charleston, SC

PRESIDENT'S REPORT The Power of Partnership

Background

In the United States, four different national organizations support and represent critical care professionals: the

American Association of Critical-Care Nurses (AACN), the American College of Chest Physicians (ACCP), the American Thoracic Society (ATS), and the Society of Critical Care Medicine (SCCM). Several other professional societies, including the American Society of Anesthesiologists, American Academy of Pediatrics, American College of Emergency Physicians, American College of Sur-

geons, Society of Hospital Medicine, American Association for the Surgery of Trauma, American Burn Association, American Heart Association, and the Society for Academic Emergency Medicine, have segments devoted to critical care.

The AACN, ACCP, ATS, and SCCM have a combined membership of over 100,000 professionals. Although these organizations all cater to the needs of critical care professionals, there was some competition among the groups

in the past, resulting in duplication of efforts in areas where cooperation would have been preferred. However, in recent years, these organizations

have established a partnership and an ongoing dialogue, and, consequently, their efforts have been more cooperative and unified.

What's in a name?

Although the four societies worked together on several issues and projects, their cooperative efforts were not formalized until around the year 2000. The four societies, fondly referred to as

the "quad societies," strove toward a common goal of "societies working together in collaboration for the advancement of critical care." In 2009, the partnership was renamed the "Critical Care Societies Collaborative" (CCSC) to better reflect the spirit of collaboration. Occasionally, one organization may decline to participate on a project if it feels that the issue is not relevant to its members. Sometimes, one organization may independently initiate a project, but the others may then

endorse the project. Ultimately, the CCSC has many accomplishments to its credit that demonstrate the power of partnership.

How does the collaborative function?

The CCSC members convene at the annual meetings of the SCCM and ACCP. Since the ATS and AACN meetings overlap, traditionally, the CCSC has not met at these meetings.

Since 2008, because of many emerging issues requiring more attention, formal 1- to 2-day retreats have been organized annually. Agenda items that have relevance to the four organizations are identified and discussed in detail at the annual retreat.

How is this helpful to the membership?

Some of the key achievements and projects resulting from these collaborative efforts, even previous to the formation of the CCSC, are described below:

Committee on Manpower for Pulmonary and Critical Care Societies (COMPACCS), 2000: Workforce study conducted by ATS, ACCP, SCCM, and the Association of Pulmonary and Critical Care Medicine Program Directors

pointing out the severe shortage of current and future intensivists and pulmonologists (Angus DC, et al. *JAMA*. 2000;284[21]:2762-2770).

▶ Framing Options for Critical Care in the United States (FOCCUS), 2003: A task force formed by the AACN, ACCP, ATS, and SCCM discussed how critical care is delivered in the United States and by whom. It provided recommendations addressing the critical care workforce shortage and the quality of critical care delivery (Kelley MA, et al. *Chest.* 2004;125[4]:1514-1517).

- AACN Standards for Establishing and Sustaining Healthy Work Environments, 2005: Release of these Standards by the AACN, with endorsement by the other societies.
- ▶ Prioritizing the Organization and Management of Intensive Care Services in the United States (PrOMIS), 2007: A consensus conference of identified stakeholders of critical care services in the United States was organized to address the perceived problems of and potential solutions for delivery of critical care services (Barnato AE, et al. *Crit Care Med.* 2007;35[4]:1003-1011).

Continued on following page

Experience CHEST 2010

BY DR KALPALATHA K.

GUNTUPALLI. FCCP

Relevant. Clinical. Education.

Recognized around the world as the authority in clinical chest medicine, CHEST 2010 will feature a core learning program in pulmonary, critical care, and sleep medicine. Essential updates on patient care and practice management strategies will keep you at the forefront of chest medicine.

New for CHEST 2010

New Meeting Start Day With More Education.

General education sessions will begin on Sunday, October 31, 1 day sooner than previous years. This new schedule adds a day of learning opportunities, which means:

- 5 days of clinical instruction
- CME credits available: **39**
- Nearly **400** sessions

Register NOW!

Register Early for Lowest Fees

Register by August 31 for the super saver discount. ACCP membership saves you up to \$300. Join the ACCP today to be eligible for discounted rates.

www.chestnet.org/CHEST (800) 343-2227 (US) • (847) 498-1400 (Canada and International)

Globally Relevant Emphasis.

Globally relevant health topics will be presented to increase your knowledge, help you treat a diverse patient population, and empower you to follow the lead of the ACCP President Kalpalatha K. Guntupalli, MD, FCCP: Care Locally. Reach Globally. Sessions addressing global health issues will begin Sunday, October 31, and will continue throughout the meeting.

Clinical Care Focus.

Intensive study will be offered in pulmonary arterial hypertension, interventional pulmonology, COPD, and advanced ultrasonography on Thursday, November 4, so you can immerse yourself in a focused clinical area.



October 30 - November 4 Vancouver, BC, Canada



Postgraduate Multipass Courses.

Registration for a postgraduate course will provide you with a multipass to sessions at any postgraduate course and access to all electronic materials. Custom build a postgraduate course day suited to your education needs.

Housing Now Open

US and Canadian attendees visit www.chestnet.org/CHEST. International attendees visit www.chest-internationalhousing.com.







THE AUTHORITY IN CLINICAL CHEST MEDICINE

Valkcouver

Continued from previous page

- ▶ Keystone Center, 2008: The Office of Human Research Protection (OHRP) stopped the Keystone quality improvement initiative in Michigan instituting a checklist to prevent catheter infections, stating that patient consent was necessary. The quad societies wrote a joint letter objecting to this decision, which got a rapid response from the Department of Health and Human Services and led to eventual resolution of the issue. Face-to-face meetings ensued, and position statements were issued by the quad societies.
- ► Centers for Medicare & Medicaid Services (CMS) Proposal for Hospital-Acquired Infections: The quad societies group was invited to contest the CMS proposal for hospital-acquired conditions. The quad societies succeeded in reducing the number of "Never Events" proposed by CMS. ► Restriction of Duty Hours: The
- ▶ Restriction of Duty Hours: The quad societies responded to the proposed further restriction of house staff duty hours by the ACGME, highlighting the unintended consequences of these regulations.

Recent Accomplishments

In 2008, as a result of significant changes in the environment, formal retreats were initiated to allow more dialogue than brief meetings at our annual conferences allowed. The results of these annual retreats are outlined below.

2008

Agenda items relevant to the four societies were identified. The areas discussed included the following: hospital-acquired infections; patient safety issues; evidence for critical care

'THE CRITICAL CARE SOCIETIES
COLLABORATIVE HAS MANY
ACCOMPLISHMENTS TO ITS
CREDIT THAT DEMONSTRATE
THE POWER OF PARTNERSHIP.'

practices; new models of care; collaborative opportunities with other organizations, including federal agencies, related organizations, and international professional organizations; and educational joint programs. Along with the National Association for Medical Direction of Respiratory Care (NAMDRC), the Hospital-Acquired Infections Collaborative (HAI-C) was established to address patient safety issues specifically related to hospital-acquired infections.

The Patient Focused Critical Care Enhancement Act – 2007: Drafted by ACCP and ATS and supported by the CCSC, was introduced in the Senate by Senators Richard Durbin (D-IL) and Mike Crapo (R-ID) and in the House by Representatives Jan Schakowsky (D-IL) and Eric Cantor (R-VA). It was reintroduced in 2009 by Senators Crapo and Sheldon Whitehouse (D-RI) and Representatives Schakowsky and Cantor.

2009

The 2009 retreat resulted in four key accomplishments:

- 1. A joint open letter to President Obama addressing physician involvement in end-of-life care.
- 2. Formal name change to the Critical Care Societies Collaborative to more accurately reflect the partnership. 3. A meeting with Dr Don Wright, then the Principal Deputy Assistant Secretary for the Department of Health and Human Services, regarding hospital-acquired infections. In an effort to improve hospital-acquired infection rates, the CCSC submitted three project proposals to HHS, of which one was approved. Currently, with AACN taking the lead, the CCSC is developing a National Awards Program to recognize achievements in the elimination of healthcare-associated infections. The CCSC met again with Dr Wright in 2010 to develop further strategies to decrease health-care-associated infections.
- 4. Decision to share any issues of concern with the collaborative when any society is asked to endorse documents, guidelines, or position papers, or is invited to be part of another entity to partner in areas of common interest. Generally, invitations to collaborate are addressed individually to all of the CCSC organizations from these outside entities.

2010: Current Updates

▶ Task Force for Critical Care Research: Starting in early 2009, the CCSC convened with the NIH US Critical Illness and Injury Trials Group (USCIITG) to develop a comprehensive agenda for critical care research. A multisociety Strategic Planning Task

Force for Critical Care Research was formed whose goal was to define a broad, comprehensive agenda for critical care research. This agenda will serve as a blueprint for future critical care initiatives undertaken by individual investigators and targeted requests for applications issued by foundations, NIH, and other interested groups.

Five areas of research were identified: basic science, clinical, education, translational, and outcomes. The conference document is expected to include a description of the process; an outline of the background information, including research accomplishments and opportunities used by the working groups; and a prioritized list of recommendations for research areas

► Tele-ICU Study and Consensus Conference: A multicenter survey of tele-ICU interventions was performed by the ACCP Critical Care Institute. Subsequently, the Agency for Healthcare Research and Quality funded a conference to develop a consensus statement on the research agenda for ICU telemedicine. This conference was held in March of this year and was attended by an interdisciplinary group representing the four organizations of the CCSC and users/experts of tele-ICUs around the country. The results of this conference will be published as a multisociety consensus statement and will serve to inform potential future requests for applications/proposals on the part of grant-funding agencies. The statement, which is currently being drafted by the writing committee, will be reviewed and approved by all conference participants.

Conclusion

Critical care professionals comprise a group of people with diverse backgrounds but with a common goal of improving care of the critically ill patient. By working together through the Critical Care Societies Collaborative, great strides are being made toward that goal. Continued collaboration in the future will lead to even greater accomplishments in the field of critical care.

CHEST Abstracts Delivered To You. Wherever You Are.

Monthly CHEST Current Issue abstracts and weekly CHEST Papers in Press abstracts are now available for delivery to your Kindle™ e-reader.





Current Issue feed provides the table of contents list and abstracts ahead of the print issue.

Papers in Press feed offers weekly access to the abstracts of just-accepted original research to be published in *CHEST*.

Full-text articles not available.

Try it free for 2 weeks.

Subscribe for a \$1.99 monthly fee (per feed).

Current Issue: www.amazon.com/gp/product/B003M5H15C Papers in Press: www.amazon.com/gp/product/B003M5H184

This Month in *CHEST*: Editor's Picks

BY DR RICHARD S.
IRWIN, MASTER
FCCP

Editor in Chief, CHEST

- ► Factors Associated With Illness Perception Among Critically Ill Patients and Surrogates. By Dr D. Ford, FCCP, et al.
- ► Risk of COPD From Exposure to Biomass Smoke: A

Metaanalysis. By Dr G. Hu, et al.

▶ Decreasing Cardiac Chamber Sizes

For mental field and the control of the control of

and Associated Heart Dysfunction in COPD: Role of Hyperinflation. By Dr H. Watz, et al.

RECENT ADVANCES IN CHEST MEDICINE

▶ Oxygen Therapy for Patients With COPD: Current Evidence and the Longterm Oxygen Treatment Trial. By

Dr J. K. Stoller, FCCP, et al.

www.chestjournal.org

Top 5 Things To Do in Vancouver

ooking for ideas on what to do while in Vancouver for CHEST 2010?

How about some recommendations from a local resident? Meet Dr. Frank Ervin. Dr Ervin is Clinical Instructor, Department of Medicine, University of British Columbia; and Respirologist, Ridge Meadows Hos-

pital, Maple Ridge, BC, -Canada.

Having lived in Vancouver and Maple Ridge for 23 years, he knows the area well and recently shared recommendations for what to do

during your stay in Van-

couver.

1. Ride the Skytrain to Surrey on the Expo line, and return via the Millennium line

The Skytrain offers an area tour for a song, and the system isn't crowded during off-peak hours. Buy a day pass from Translink for the trip. Stop off at the New Westminster Quai "Rivermarket," and walk along the boardwalk, observing the busy river traffic on the Fraser River. I love the New Westminster waterfront area for its vistas and people watching

(www. translink.ca).

2. Take a sightseeing flight on a float plane from the Vancouver Harbor.

You won't believe the beauty of the area from the air, and a float plane experience is great fun in itself

(www.harbourair. com/tours.php).

3. Fly on a float plane to Victoria.

Visit beautiful Victoria, including the Royal British Columbia Museum, or take a side trip to the lovely Butchart Gardens.

Return to Vancouver on the BC Ferries system, and then catch

the Pacific Coach Lines bus on the ferry or in Victoria to return to downtown Vancouver (www.harbourair.com/ HA%20Map_0207.pdf).

4. Spend an evening with the Arts Club Theatre Company. Playing during CHEST 2010 is "The 39 Steps." Hitchcock meets hilarious in this spoof, which features a seductive mystery woman, an accusation



finger, and a mad dash to foil foreign spies!

Four gifted actors play more than 150 zany characters in this Monty Python-flavored

Hitchcock spoof that just might give you a case of vertigo! (www.artsclub.com/index.html)

5. Listen to the Vancouver Symphony Orchestra.

During CHEST 2010, the Vancouver Symphony Orchestra will present Musically Speaking 1, an evening of music by English composers, including works by Sir Edward Elgar and Ralph Vaughan Williams.

Be sure to buy your tickets online to avoid disappointment! (www.vancouversymphony.ca)

Don't miss CHEST 2010, October 30 - November 4, in Vancouver. Recognized around the world as the authority in clinical chest medicine, CHEST 2010 will feature an essential learning program in pulmonary, critical care, and sleep medicine.

To learn more about CHEST 2010, visit www.accpmeeting.org. ■

Enrollment for EHR Program Available Online

he Centers for Medicare & Medicaid Services (CMS) has established an Internetbased Provider Enrollment, Chain and Ownership System (PECOS) as an alternative to the paper (CMS-855) enrollment process. Internet-based PECOS will allow physicians, nonphysician practitioners, and provider and supplier organizations to enroll, make a change in their Medicare enrollment, view their Medicare enrollment information on file with Medicare, or check on the status of a Medicare enrollment application. The American Recovery and Reinvestment Act of 2009 authorized CMS to provide incentive payments for the "meaningful use" of certified electronic health record (EHR) technology.

For more information about the Internetbased PECOS, select the "Internet-based PECOS" link to the left on the CMS Web site at www.cms.hhs.gov/MedicareProviderSup Enroll; and for additional information, click on "Tips to Facilitate the Medicare Enrollment Process" under "Downloads." If you enrolled in Medicare after November 2003, or have updated Medicare enrollment information since then, you do not need to take further action. To verify your enrollment record in PECOS, go to www.cms.gov/ MedicareProviderSupEnroll.

ACCP Board Review.

DR FRANK ERVIN

The Proven Leader in Comprehensive **Review Programs**

Prepare for board certification examinations with comprehensive review programs from the proven leader in board review curricula. Only the ACCP offers:

- Board-exam-focused programs, emphasizing the same content areas as the ABIM.
- Presentations that include lectures, self-assessment opportunities, and smaller tutorial sessions focusing on key topics.
- Assessment tools to measure your exam readiness and guide your study preparation.

NEW! Early Access to Course e-Books

Tuition includes free online access to the course e-book.

- Navigate content with a user-friendly format.
- Find topics with advanced search capabilities.
- Link to referenced articles.

Access to the pulmonary, critical care, and sleep medicine e-books will be available upon registration. Access to the pediatric pulmonary medicine e-book will be available approximately 2 weeks prior to the course. (You will be given access only to the e-book(s) corresponding to the course(s) for which you register.)



Register Today

www.chestnet.org

(800) 343-2227 or (847) 498-1400

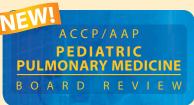
- Register by August 5 for an early registration discount.
- Register online for two review courses, and receive 15% off the combined tuition (online offer only).
- Registration forms also available for download at www.chestnet.org.



ACCP Sleep Medicine Board Review 2010

August 27-30 Orlando, Florida

Exam date: November 10, 2011



ACCP

ACCP/AAP Pediatric Pulmonary Medicine Board Review 2010

August 27-30 Orlando, Florida

Exam date: November 8, 2010

American Academy of Pediatrics





August 27-31 Exam date: October 13, 2010



ACCP Pulmonary Medicine Board Review 2010

September 1-5 Orlando, Florida

Exam date: October 12, 2010

NETWORKS

CABG, Antibiotic Development, Haiti Challenges, IPF

www.chestnet.org/networks

Cardiovascular Medicine and Surgery

The ROOBY trial was a large (2,203 patients), controlled, randomized, multicenter, VA cooperative study that evaluated the efficacy of on-pump vs off-pump coronary artery bypass grafting (CABG). Patients underwent a coronary angiogram at 1 year post-CABG. The main findings were published in the *New England Journal of Medicine* (Shroyer et al. *N Engl J Med*. 2009;361[19]:1827).

The primary short-term composite endpoint included death or major complications (reoperations, cardiac arrest, new mechanical support, stroke, or renal failure requiring dialysis) occurring within 30 days postoperatively or before hospital discharge. The primary long-term composite endpoint was death, nonfatal myocardial infarction, and repeat revascularization within 1 year. Secondary endpoints included completeness of revascularization, graft patency, and neuropsychological outcome.

Short-term primary endpoints for both groups were similar (7% off-pump vs 5% on-pump). Mortality was 1.6% and 1.2% for off-pump and on-pump patients, respectively. As a whole, the off-pump group had a higher long-term primary composite endpoint (9.9% vs 7.4%), more deaths from cardiac causes (2.7% vs 1.3%), higher incomplete revascularization rate (11.1% vs 7.8%), and lower 1-year graft patency (82.6% vs 87.8%) than the on-pump group. The patency for left internal thoracic artery grafted to the left anterior descending artery was similar between the groups (off-pump 95.3% vs onpump 96.2%). Long-term composite changes in individual neuropsychological test scores were similar or improved from baseline for both groups.

The ROOBY trial is the first large study showing no differences in short-term primary endpoints between the off-pump and on-pump procedures. The long-term endpoint favored the on-pump patients for death or graft patency. The patency rate for internal thoracic artery graft was similar for both groups. No difference in neurocognitive dysfunction was observed between the use of pump and no pump. Both treatment groups showed improvement of neurocognitive function at 1 year.

Dr G. Hossein Almassi, FCCP Steering Committee Member

Chest Infections

Antibiotic Development:

Many Challenges, Few Solutions
Antibiotic-resistant bacteria are responsible for an increasing number of infections in the hospital and community settings, while the number of antibiotics is decreasing. The Infectious Diseases Society of America (IDSA) has launched "10×20," an initiative to advocate for a global effort to develop 10 new antibiotics by 2020. If this target is not achieved, the IDSA states, "The antibiotic

pipeline problem may change the practice of medicine as we know it."

The reasons behind this dearth of new antibiotics include significant regulatory hurdles, lack of perceived and real

value of antibiotics, and lack of accepted clinical markers to establish efficacy of drugs. Dr

The FDA is advocating the development of new diagnostic tests for respiratory antibiotic studies. Sorbello et al (*Drug Inf J.* 2010;44:165) discussed noninferiority (NI) margins for drugs to be used in nosocomial pneumo-

nia (NP). The researchers concluded a 7% NI margin for all-cause mortality in NP (62% placebo estimate; active estimate of 20%) would be adequate. Based on this estimate, 1,500 patients would need to be enrolled in each of two trials for an FDA approval of antibiotics for NP or ventilator-associated pneumonia. Achieving this target would cost more than \$100 million, involve 3,000 patients, and take several years. This may not be reasonable when the IDSA points out that the ESKAPE pathogens (Enterococcus faecium, Staphylococcus aureus, Klebsiella species, Acinetobacter baumannii, Pseudomonas aeruginosa, and Enterobacter species) are those that cause nosocomial and other pneumonias (Boucher et al. Clin Infect Dis. 2009;48[1]:1).

Meanwhile, the pharmaceutical industry is watching carefully. Though it does not want to turn its back on the crisis, there is little encouragement in 2010 to invest resources to achieve the IDSA's goal for "10×20."

Dr Glenn Tillotson, FCCP Steering Committee Member

Clinical Pulmonary Medicine Lung Disease in the Elderly

The US Census Bureau estimates that by 2015, 15% of the US population will be over age 65. As the population ages, it will be important to understand the relationship between aging and lung disease. Dyspnea or dyspnea on exertion is a common complaint of the elderly, but it is also common for older people to attribute dyspnea to the natural process of aging and not report it. It is important for pulmonologists to recognize that dyspnea is underreported and make a special effort to elicit this symptom through patient questionnaires or assessment. Cardiac and respiratory disease are the most common causes of shortness of breath in the elderly and often present as comorbidities, making the diagnosis much more difficult. Studies in normal nonsmoking elderly subjects demonstrate that there is reduced lung elastic recoil, reduced chest wall compliance, and a decrease in respiratory muscle strength. These changes result in a decline in the FEV₁, the FVC, and the FEV₁/FVC ratio with aging. The total

lung capacity (TLC) is not changed with age, but the residual volume (RV) does increase, resulting in an increase in the RV to TLC ratio over time. All of these changes can result in the overdiagnosis

of airflow limitation in the elderly. And some research suggests that the elderly are less responsive to bronchodilators.

The symptom of dyspnea must be explored in detail, and lung function studies must be interpreted using "age-ized" lower limits of normal, not percent of predicted. In the acutely dyspneic

elderly, the differential is large and requires a systematic approach to rule out life-threatening cardiopulmonary disorders. Because older patients have multiple comorbidities and there is underreporting of dyspnea by the elderly, these patients present a diagnostic challenge to the pulmonologist.

Dr Craig Piquette, FCCP Steering Committee Member

Disaster Response

Haiti Retrospective

It has been more than 4 months since my Haitian experience, and I follow the drama there now as the crisis continues. With the *retrospectroscope* on high and with input from many who continue to stay involved in the clinical care on the ground, we can see patterns develop. Specifically, three aspects have emerged that challenge the way forward for the small island country.

- ▶ Mass migration and internal displacement of the population. New "cities" now emerge from displaced people who are attempting to set up infrastructure in what were intended as transient camps. The centers have no urban planning, lack basic public health infrastructure, and have rudimentary local governmental control. Such circumstances invite the onslaught of vector, food, and water-borne diseases, as well as violence against the most vulnerable. ▶ Further decay in the primary health-care capability. Not only did Haiti lose some of its health-care infrastructure,
- ▶ Further decay in the primary health care capability. Not only did Haiti lose some of its health-care infrastructure, it lost many of its physicians in the earthquake and its aftermath. Many physicians chose to leave after the disaster for more lucrative positions, and many others chose to work for the higher-paying nongovernmental organizations rather than staying in poor rural or community centers. Additionally, reliance on outside health care is developing, which will not likely be sustainable over the years.
- ▶ Lack of an integrated, coordinated public health response. Public health programs and vaccine delivery strategies are limited by both supplies and accessibility to the most vulnerable populations. Vaccinations are being fielded by many independent organizations

without a global host nation plan, and coverage is rudimentary, at best.

Given the magnitude of the catastrophe, the vulnerability of the population at baseline, and what has transpired to date, we need to maintain our involvement in the health reconstruction of our island neighbor, Haiti.

Dr Dennis Amundson, FCCP, NetWork Chair

Interstitial and Diffuse Lung Disease Update in Idiopathic Pulmonary Fibrosis Clinical Trials

The results of two clinical trials for patients with idiopathic pulmonary fibrosis (IPF) were announced recently.

The first trial, Bosentan Use in Interstitial Lung Disease (BUILD)-3, enrolled 616 patients with biopsy-proven IPF in a randomized, double-blind, placebo-controlled study. Patients received bosentan (n=407), a dual endothelin receptor antagonist, or placebo (n=209) over a 52-week period. The primary endpoint was time to progression of disease or death. Secondary endpoints included quality-of-life measures and change in pulmonary function studies.

Investigators found no significant differences between groups with respect to the primary or secondary endpoints. Subgroup analyses similarly failed to achieve the prespecified endpoints. Patients receiving bosentan had a significantly increased rate of elevated liver function study results compared with the placebo group. The investigators concluded that bosentan was no different than placebo in this trial.

The second study was a randomized, double-blind, placebo-controlled study of 180 patients with advanced IPF. See the report on p. 3 of this issue for more details.

Two additional clinical trials, sponsored by the NHLBI-funded IPF Clinical Research Network, are now enrolling patients. PANTHER-IPF (ClinicalTrials. gov identifier NCT00650091) is a randomized, double-blind study evaluating prednisone, azathioprine, and N-acetyl-cysteine vs N-acetylcysteine vs placebo in IPF, while ACE-IPF (ClinicalTrials.gov identifier NCT00957242) is examining the efficacy of anticoagulation with warfarin vs placebo in patients with IPF.

Dr Imre Noth, FCCP, NetWork Chair; and Dr Eric S. White, FCCP, NetWork Member

Tobacco Dependence Treatment Toolkit

Web-based resource that can help your patients stop. Free lifetime access for ACCP members who order by August 31.

Order your toolkit today at http://tobaccodependence. chestnet.org.

Darlene Buczak Award for Innovations in Education

BY DR BRIAN CARLIN, FCCP

The Darlene Buczak Award for Innovations in Education was established by the Association of Pulmonary and Critical Care Medicine Program Directors in 2009 to honor Ms. Buczak's service to the organization. This award is given to an individual who demonstrates excellence and innovation in the education of pulmonary and critical care medicine fellows. The award is given on a yearly basis.

Dr Jennifer McCallister, Associate Fellowship Director for the Ohio State University pulmonary and critical care medicine training program, was the first recipient of the award. Dr McCallister has developed a month-long immersion curriculum that is delivered to all incoming first-year fellows during the month of July. This curriculum is designed to establish minimum cognitive and procedural competencies in key topics and procedures in the field prior to the new fellow beginning actual patient care responsibilities.

In the program, lectures and computerbased lessons are used to review relevant basic physiology, core clinical topics, and essential procedures. Technical skills and baseline procedural competencies are established through the use of simulators, cadaver laboratories, direct faculty



(L-R) Dr John Buckley, FCCP; Dr Jennifer McCallister; Darlene Buczak; Dr Laura Evans; Dr John Mastronarde; and Dr Brian Carlin, FCCP.

instruction, and wet labs. Competency is assessed through a written pretest and posttest and direct observation of skills by faculty members. The curriculum is in its third year and has been well received by both fellows and faculty.

Dr Laura Evans, Associate Fellowship Director for the New York University pulmonary and critical care medicine training program, was this year's recipient of the award. Dr Evans has developed a structured research curriculum for fellows in an attempt to improve the career development process. This curriculum has been in place for the last 2 years and is started

during the first year of the training program.

First-year fellows attend a 2-day "research retreat" to learn about ongoing research activities, meet the research faculty, and receive an overview of possible pathways toward an academic career. Each fellow is then expected to meet with potential research mentors over the ensuing months and to choose a research project. At the beginning of their second year in training, a series of research

methodology lecture courses is given. The curriculum has been perceived to be beneficial from both the faculty and fellow perspectives.

Assessment of competency of cognitive and procedural skills and development of clinician scientists are just two of many aspects of training that are essential to the education of pulmonary and critical care fellows. Drs. McAllister and Evans have developed innovative methods to address these two issues, with positive outcomes. These two projects show the innovations in education and training that form the basis for the Darlene Buczak award.

College VP Receives CME Award

d Dellert, ACCP Vice President of Clinical Education, Informatics, and Research, is the recipient of the Research in Continuing Medical Education (RICME) Award from the Society for Academic Continuing Medical Education (SACME).

Melinda Steele, MEd, SACME Past President, made the presentation, and ACCP President, Dr Kay Guntupalli, FCCP, represented the ACCP at the event this past April. The award honors those who have made outstanding contributions to research in continuing medical education.

SACME was established in 1976 as the Society of Medical College Directors of Continuing Medical Education (SMCDCME). In 1998, SMCDCME was renamed the Society for Academic Continuing Medical Education (SACME). Its mission is to promote the research, scholarship, evaluation, and development of CME/CPD (continuing medical education/continuing professional development) that helps to enhance the performance of physicians and other health-care professionals practicing in the United States, Canada, and elsewhere for purposes of improving individual and population

3rd Annual Case Competition Addressed Diabetes

he CHEST Foundation, the philanthropic arm of the American College of Chest Physicians (ACCP); the Social Enterprise at Kellogg (SEEK) of the Kellogg School of Management; the Carol and Larry Levy Social Entrepreneurship Lab; and Medtronic Diabetes sponsored the 3rd Annual Case Competition that held its culmination dinner on May 11, 2010. Partners of this year's competition included the Centers for Disease Control and Prevention (CDC) Foundation and the American Diabetes Association (ADA).

The 2010 case competition addressed the growing epidemic of diabetes in the United States. Professor Timothy Feddersen, Wendell Hobbs Professor of Managerial Politics and Director of SEEK, Kellogg School of Management, and Jamie N. Jones, PhD, Assistant Director of Social Enterprise and the Carol and Larry Levy Social Entrepreneurship Lab at Kellogg, challenged the teams to devise viable business models that would link care providers, patients, and community resources in the successful treatment of diabetes. Six student teams from

the Kellogg School of Management and the Feinberg School of Medicine developed sustainable business solutions that focused on providing innovative diabetes care models.

As in the previous 2 years, the case competition secured the expert assistance of members of the medical, community, and business realms to work as advisors with the six competing teams. National leaders from the business, government, and philanthropic sectors served as preliminary reviewers and final judges.

This year's preliminary judges were Dr John C. Alexander Jr, FCCP, President, The CHEST Foundation, and Head of Cardiac Surgery, NorthShore University Health System; Robert F. Barnett III, Board Member, The CHEST Foundation, and Financial Advisor, WexCap Advisors; Jeffrey C. Bauer, PhD, Partner, Management Consulting-Futures Practice, ACS Healthcare Solutions; David Dranove, Walter J. McNerney Professor of Health Industry Management and Director of Health Enterprise Management at Kellogg; Professor Tim Feddersen;



Professor Tim Feddersen and Dr John Alexander pose with the 2010 Kellogg Case Competition winning team, Dia-life. Team members (L-R): Harold Hsiung, Ajit Thupil, Mihir Naware, Amy Ide, Milind Kopikare, and Will Liu.

Dr Allen I. Goldberg, Master FCCP, Past President, ACCP; Jamie N. Jones, PhD; Marilyn A. Lederer, CPA, Executive Director, The CHEST Foundation; and Sangeeta Vohra, Associate Director of The Center for Biotechnology at Kellogg. These judges reviewed the six cases to determine which two teams would present to the distinguished panel of judges at the culmination dinner.

Final round judges included Christine Beebe, Associate Director, Takeda Pharmaceuticals
North America, Inc, and
Incoming-Chair of the Board for
the ADA-Chicago Chapter;
Thomas Haggerty, President, Institute of Allied Medical Professions; Greg Kapust, CEO,
Breathe Technologies; Rachel
Lieberman, Director of Programs, ADA-Chicago Chapter;
John Moore, PhD, RN, Chronic
Disease Director's Office, CDC;
and Leo Mullin, Chairman of
the Board, Juvenile Diabetes Research Fund, and Senior Advisor,

Goldman Sachs Capital Partners.

The two finalist teams—
Ticket To Change and Dia-life—
presented their business plans at
the dinner. Dia-life team members Harold Hsiung, Will Liu,
Milind Kopikare, Amy Ide, Mihir
Naware, and Ajit Thupil developed the winning plan, which focused on assisting patients with
the necessary lifestyle changes
required to effectively manage
diabetes. They created an online
system of tangible incentives for
patients that encourages and
supports lifestyle changes.

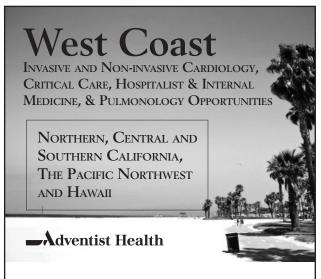
The runner-up team, Ticket To Change, included student team members Mitra Afshari, Avidan Ben Har, Josh Engel, Frank Sasso, Bill Shields, and Timmie Wang. They presented their plan that encompassed behavioral change interventions known to be helpful in the health of those diagnosed with diabetes, including education, support, lifestyle changes, and participant incentives, which will improve key health metrics.

For more information about the Kellogg/CHEST Foundation collaboration, visit the Foundation's Web site at www.chestfoundation.org.

14 JULY 2010 • CHEST PHYSICIAN

CLASSIFIEDS

PROFESSIONAL OPPORTUNITIES



Learn More

Visit www.adventisthealth.org/phyjobs or contact Physician Recruiter Ryan Rasmusson at 800.847.9840 or phyjobs@ah.org.

advancemd



Forbes and Fortune Small Business Magazine rank Billings, Montana - the Best!

Practice medicine in a city ranked as one of the Best Small Places for Business and Careers (Forbes, 2009) and the Best Small City in which to start a business (Fortune Small Business Magazine, November 2009).

St. Vincent Healthcare in Billings. Montana seeks a well-trained, compassionate physician for Pulmonology and Critical Care Medicine

- · Great practice with maximum flexibility that focuses on quality lifestyle
- Full time or part time position available
- ICU service call: 1:4
- Outpatient Pulmonology clinic: low overhead practice
- Hospitalist program available
- Pediatric Intensive Care Unit staffed 24/7 with Board Certified Pediatric Intensivists
- SVH is staffed for 250 beds
- Regional destination hospital: serves a four-state area and more than 900,000 people each year
- AASM accredited sleep center; Level II Trauma Center; HELP Helicopter and Fixed Wing air transport program with specialty transport teams
- SVH invests in the latest technology
 SVH is ranked Best for Heart Attack Care and #15 for Quality in
- Thriving medical community in a family-oriented suburban location
- Excellent School System
- · Abundant recreational activities year round hiking, skiing, fishing, biking and camping
 • Excellent Benefits and Competitive Salary Structure, based on
- Sign-on Incentives, Moving Allowances, and CME reimbursement.
 Will consider loan forgiveness.

Contact: Colleen Martin at Colleen.Martin@svh-mt.org or 406-237-

SUNBELT CRITICAL CARE PRACTICE

Join the intensivist program at an award-winning health system.

- ▶ Top income potential
- Dover only one hospital with 29 CC beds
- ▶ Established, financially-secure health system
- ▶ Consumer Choice Award (five consecutive years), Top 100 Hospitals in America (2005), Top 100 Hospitals – Cardiovascular (2005, 2006)
- State-of-the Art Technology, Teritiary Care
- Sunbelt Climate Golf, water sports, hunting, cultural features & southern cuisine







To learn more: Caren J. Foster **Physician Development** (888) 521-1892

cfoster2@wkhs.com or caren02@prodigy.net

ADULT INTENSIVISTS

Greater Fort Lauderdale, Florida

Memorial Healthcare System, one of the premier healthcare systems in the nation, is currently seeking to employ an additional full-time, Fellowship Trained Critical Care Medicine Physician to join an established Intensivist Program at Memorial Hospital West.

Ideal candidates are BC/BE pulmonary & critical care trained physicians with good clinical skills and beside manner to manage the care of critically ill patients in our Intensive Care Unit.

We offer an attractive compensation and benefits package and you can be proud to work for an organization recognized by Modern Healthcare Magazine, 2009 as 6th in the Nation for Best Places to Work in Healthcare!

When it comes to lifestyle and career, we have it all...

including an average temperature in the high 70's, miles of beautiful sandy beaches, world class dining, top rated golf courses. professional sporting events, and an abundance of enjoyable activities for the kids.

Diverse housing options, excellent school systems and NO State Income Tax make this an ideal area for business, family, cultural and recreational entertainment!

> Email your CV today to: Ken Bolis – (954) 265-0902 Email: mhsdoctor@mhs.net www.mhs.net Visit our website to learn more



Pulmonary/Critical Care

BC/BE pulmonary critical care physician needed for an outstanding opportunity in the beautiful Florida panhandle. Busy and still growing pulmonary practice looking to expand. Practice covers two state-of-theart hospitals, both with intensive care units, sleep and pulmonary function labs. Ideal community minutes from white sand beaches. Minimal managed care penetration. We are a group of four looking to add two additional partners. Excellent salary potential. Great incentives and benefits package including salary guarantee and early partnership. Send CV to Pulmonary, Critical Care and Sleep Disorders Medicine, PA Email: pulmonarydc@yahoo.com Fax: 850-435-3156

Intensivist

Join our team at one of the top awardwinning healthcare systems in the South. Cover only one hospital with 29 CC beds. Employed position with a financially secure, physician friendly health system that boast a 98% retention rate! Pulmonary & Sleep potential if desired. Contact Caren Foster 888-521-1892, cfoster2@wkhs.com or caren02@prodigy.net

Pulmonologist/Critical Care

Excellent opportunity for Full time/part time pulmonologist/critical care for a busy practice in southern California. Good salary & benefits. For details communicate via email ramonamedicalclinic@yahoo.com

AnMed Health Anderson, SC

FIFTH pulmonologist; employee; productivity. LUNG; SLEEP CENTER. Full practice to start; hospitalists; busy level 2 ED. 461-facility; one-hospital community. Heart and vascular; cancer centers; Award winning pulmonary program. On Lake Hartwell; I-85, Greenville, 30 miles. Midway Atlanta; Charlotte.

Sherry Chastain, AnMed Health sherry.chastain@anmedhealth.org 800-226-3103.

BC/BE Pulmonary/ Critical Care Associate

Well-established, successful group practice in Sacramento seeks well-trained, energetic BC/BE pulmonary/critical care physician with emphasis on infectious diseases. Excellent ICU program. Competitive compensation package. E-mail CV and cover letter to mfwong@vortran.com

For information on classifieds, contact: Rhonda Beamer, Walchli Tauber Group, Inc., 2225 Old Emmorton Road, Suite 201, Bel Air, MD 21015. (443) 512-8899 Ext 106. FAX: (443) 512-8909. Email ad to: rhonda.beamer@wt-group.com

Disclaimer

Chest Physician assumes the statements made in classified advertisements are accurate, but cannot investigate the statements and assumes no responsibility or liability concerning their content. The Publisher reserves the right to decline, withdraw, or edit advertisements. Every effort will be made to avoid mistakes, but responsibility cannot be accepted for clerical or printer errors.

Pulmonary, Critical Care, and Sleep Medicine Physician

Pulmonary, Critical Care, and Sleep Medicine physician needed to join growing group of four in employed position, just two hours from Chicago and St. Louis, in Bloomington, Illinois. OSF Saint Joseph Medical Center, a Level II Trauma Center, houses a state-of-the-art Comprehensive Care Unit of 32 beds, which includes both Critical Care and Step Down, a growing ambulatory pulmonary practice, sub-specialty clinics in pulmonary hypertension and lung nodules, and a six bed accredited sleep center. Come be a part of the OSF Healthcare, ranked # 1 in Integrated Healthcare Networks in Illinois. Call or send CV to: Rachel Reliford, Phone: 309-683-8352 or 800-232-3129 (8) Email: rachel.reliford@osfhealthcare.org Web: www.osfhealthcare.org

15 JULY 2010 • CHEST PHYSICIAN

CLASSIFIEDS

PROFESSIONAL OPPORTUNITIES

SOME WARRIORS DON'T WEAR ARMOR.



Lead the fight to save lives, and change the future with Methodist.

Critical Care Physician/Intensivist Opportunity

The Division of Critical Care Medicine in the Department of Medicine at The Methodist Hospital Physician Organization, Houston, TX, a renowned top-ranked organization, is recruiting intensivist physicians for its medical intensive care unit patients. The ICUs are collaborative partnerships with physicians, mid level providers (nurse practitioners and physician assistants) and ancillary staff. Successful candidates will perform critical care duties and have teaching responsibilities. Care is provided through 24 hour faculty coverage on a shift schedule. Applicants will be expected to be Board certified or eligible in critical care. A highly competitive salary and comprehensive benefits package are available.

The Methodist Hospital, located at the Texas Medical Center, provides a rich environment of world-class biomedical science, innovative medical education and a dedication to the highest quality patient care. The Methodist Hospital is proud of its partnership with the Weill Medical College of Cornell University and New York-Presbyterian Hospital. This extraordinary cross-country collaboration among three of our country's leading health care institutions is the first of its kind. This marks a new approach for furthering our shared missions of excellence in patient care, research and teaching.

To join the team led by Janice Zimmerman, M.D., Division Head, Critical Care Medicine, please email your letters of interest and CVs to: Toby Hicks, Human Resource Director, The Methodist Hospital at TDHicks2@tmhs.org.

Acute Care Nurse Practitioner - MICU *\$5,000 Sign-On Bonus * 12-Hour Shifts, Nights

As part of The Methodist Hospital Physician Organization (TMHPO), you must have ER or ICU experience, a Masters degree in Nursing and three (3) years of clinical nursing experience (prefer two years in Advanced Practice role). In addition, you must be a Texas-licensed RN and credentialed as an Advanced Practice Nurse, and have prescriptive authority privileges through the State. ACNP certification essential. Additional openings are available with The Methodist Hospital.

TMHPO is an integral part of The Methodist Hospital's overall strategy to become one of the nation's leading academic medical centers. TMHPO enables physicians to maintain autonomy with respect to their clinical practice while growing their practice within an academic environment.

For consideration, please apply online at methodisthealth.com/careers, Search TMH Physician Organization, Category: Nurse Practitioner; Apply to Req#: meth-00038631.

YOU SEE YOURSELF AS A LEADER, we see you at Methodist.





Houston, Texas

LEADING MEDICINE®

An Equal Opportunity Employer.

















The Methodist Hospital System is the official health care provider of the Houston Texans, Houston Astros, Houston Dynamo, Rice Athletics, Houston Ballet, Houston Grand Opera and Houston Symphony.

Let's not pollute our ocean of air



like we polluted theirs.

Poisoned air can shorten life with every breath. Only with your help can we stem the tide.

It's a matter of life and breath.



Space contributed by the publisher as a public service



DONATE TODAY!

www.chestfoundation.org



To The **AMERICAN CANCER**



LungPoint®

Virtual Bronchoscopic Navigation Systems



Unparalleled Visualization and Guidance

LungPoint® Virtual Bronchoscopic Navigation highlights the path as you maneuver through airways and guides you directly to your target. Navigate quickly and accurately **without** proprietary hardware or expensive disposable catheters.

LungPoint Systems are easy to use and affordable. Call today for a hands-on demonstration of LungPoint® VBN – The leading virtual navigation solution, or get started with LungPoint® Planning – The most sophisticated stand-alone planning and virtual guidance solution.



Call or email today:

1-877-428-1600 sales@broncus.com

www.broncus.com