Conservative Fluid Management Is Tops in Acute Lung Injury

FACTTT findings should change practice.

BY JANE SALODOF MEIN
Elsevier Global Medical News

SAN DIEGO — Acute lung injury patients in a large randomized, controlled trial fared better with a conservative fluid management strategy than with a more liberal approach that researchers described as similar to what many physicians do normally when caring for these patients.

The Fluid and Catheter Treatment Trial (FACTTT) reported conservatively managed patients spent fewer days on mechanical ventilators and in intensive care units.

Despite concerns that conservative management could harm other organs, neither shock nor dialysis increased in patients who were not heavily infused with fluids. The trial’s primary outcome, 60-day mortality, was similar for participants managed with conservative and liberal strategies: 25.5% and 28.4%, respectively.

“[Conservatively managed patients] achieved a benefit without harm overall. This should lead to a change in practice,” Dr. Herbert Wiedemann, FCCP, said during a press briefing at the International Conference of the American Thoracic Society, where he reported fluid management results from the 1,000-patient study.

The National Heart, Lung, and Blood Institute’s Acute Respiratory Distress Syndrome Clinical Trials Network investigators conducted the trial, which was subsequently published in the New England Journal of Medicine (2006;354:2564-75).

FACTTT employed a complex protocol aimed at weaning patients from mechanical ventilation during the 28 days after randomization to 20 sites in North America.

Management of patients in the conservative cohort was guided by a target range of less than 4 mm Hg central venous pressure—a trend that poses scientific evidence in the intervention 20 years strengthens the significant progress in the campaign to reduce Americans’ exposure to secondhand smoke. But new scientific evidence in the intervening 20 years strengthens the causal links between secondhand smoke and a host of harmful cardiovascular, respiratory, and reproductive effects.

In particular, the surgeon general’s report cautioned that exposure to secondhand smoke increases nonsmokers’ risk of developing heart disease by 25%-30% and lung cancer by 20%-30%.

In addition, the home is sur- passing work as the primary source of secondhand smoke exposure—a trend that poses special danger for children, who are at increased risk for sudden infant death syndrome (SIDS), ear problems, asthma, and acute respiratory infections.

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In a return to a public health issue last addressed in a 1986 surgeon general’s report, the nation’s top physician found significant progress in the campaign to reduce Americans’ exposure to secondhand smoke. But new scientific evidence in the intervening 20 years strengthens the causal links between secondhand smoke and a host of harmful cardiovascular, respiratory, and reproductive effects.

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As a result, physicians “should routinely ask about secondhand smoke exposure, particularly in susceptible groups or when a child has an illness caused by secondhand smoke, such as pneumonia,” Dr. Carmona stated in his 769-page review, “The Health
THERE WERE SIGNIFICANT DIFFERENCES IN ASTHMA CARE BETWEEN THE INTERVENTION GROUP AND THE CONTROL GROUP.

The clinics documented asthma severity for 135 (98%) of 138 children who had stickers on their charts but only 128 (73%) of 175 children in the control group. Moreover, review of 263 charts with notations for asthma severity revealed that physicians were significantly more likely to classify severity correctly when they had information on the classification criteria in front of them. They did so on 46% of charts with stickers but only 28% of charts for children in the control group.

Appropriate therapy was recorded on 64% of charts with stickers but only 50% of charts for children in the control group.

Dr. Braganza and her colleagues calculated that the little sticker more than doubled the odds of a child having a correct asthma severity classification (adjusted odds ratio, 2.58). In addition, the sticker significantly increased the odds of a child receiving appropriate therapy according to NAEPP criteria (adjusted odds ratio, 1.77).

While the intervention did not perfect asthma classification and asthma medication use, the researchers suggested the reminders could be useful in “improving appropriate therapy for children with asthma.”

the children’s par-

Inhaled Steroids Didn’t Prevent Asthma in Infants

BY MELINDA TANZOLA
Elsevier Global Medical News

Inhaled corticosteroid therapy did not prevent the development of asthma in infants or young children, according to the results of two prospective studies.

In a study of 411 1-month-old infants with at least one episode of wheezing, inhaled budesonide had no effect on the progression to persistent wheezing in the first 3 years of life (N. Engl. J. Med. 2006;354:1998-2005).

“Such very early intervention is the distinguishing feature of this study,” wrote the investigators. “However, the study is confined because in many children, symptomatics of pre-asthma are present, but asthma does not develop.”

In the randomized, double-blind, controlled Prevention of Asthma in Childhood (PAC) study, Dr. Hans Bisgaard and colleagues at the Danish Pediatric Asthma Research Center in Copenhagen University Hospital in Gentofte randomized infants to receive a 2-week regimen of 400 mcg budesonide/day by pressurized metered-dose inhaler with a spacer, or a matching placebo. Treatment was initiated after the third day of symptoms. By a mean age of 11 months, 294 infants had received at least one treatment.

Over the 3-year period, episodes of wheezing, defined as 3 consecutive days with wheezing symptoms, occurred at a rate of 3.1 per child/year with budesonide vs. 2.7 with placebo, a nonsignificant difference. Persistent wheezing, which was defined as five episodes within 6 months, required study discontinuation and occurred in 24% of budesonide-treated infants and 21% of those receiving placebo.

Corticosteroid treatment was equivalent to placebo, according to the number of symptom-free days (83 vs. 82), occasions requiring open-label add-on treatment (99 vs. 37), and days free of rescue medication (91 vs. 94). Presence of atopic dermatitis or respiratory virus did not affect response to treatment.

In another study evaluating the ability of corticosteroids to prevent asthma, a 2-year course of fluticasone propionate failed to alter the development of asthma symptoms during a treatment-free year in children aged 2-3 years at high risk for asthma (N. Engl. J. Med. 2006;354:1998-2005).

The double-blind Prevention of Early Asthma in Kids (PEAK) trial, conducted by Dr. Teresa W. Guilbert at the Arizona Respiratory Center at the University of Arizona in Tucson and associates, randomized 285 children to receive a 2-year regimen of either inhaled fluticasone propionate at two 44-mcg doses twice daily by metered-dose inhaler with a valved spacer with mask, or matching placebo.

During the year after treatment, the adjusted proportion of episode-free days was not statistically different between the corticosteroid and placebo arms (86.8% vs. 85.9%, respectively) nor were other asthma-related measures, including use of bronchodilators, hospitalization and unscheduled physician visits, and lung-function tests.

“Our data suggest that inhaled corticosteroids have little therapeutic effect on the processes that determine the progression of the disease from its initial intermittent stages to a more chronic form,” wrote the study investigators.

However, children receiving fluticasone significantly improved symptom control during the treatment period according to proportion of episode-free days (93.2% vs. 88.4%), number exacerbations requiring systemic corticosteroids (57.4 vs. 89.4/100 child-years) and other treatment and clinical measures. The frequency of asthma-like symptoms increased during the study period in both groups.
Consensus Reached on Long-Term Oxygen Therapy

PULMONARY MEDICINE

BY DAMIAN McNAMARA
Eliezer Global Medical News

NAPLES, FL. — Many recommendations about long-term oxygen therapy emerged from the Sixth Oxygen Consensus Conference, according to a presentation by Dr. Dennis E. Doherty, FCCP, at the annual meeting of the National Association for Medical Direction of Respiratory Care. About 1 million Americans receive long-term oxygen therapy (LTOT) at a cost of more than $2 billion per year. This cost is anticipated to increase to $3 billion per year and account for 1% of the annual budget of the Centers for Medicare and Medicaid Services, said Dr. Doherty, chief of the pulmonary, critical care, and sleep medicine division at the University of Kentucky, Lexington.

Many new LTOT technologies are emerging, and evidence to support their use can lag a few years behind. “There are many options or treatments to choose from, which is weak in evidence-based medicine. Sometimes it takes common sense or consensus to make a decision,” Dr. Doherty said.

The Sixth Oxygen Consensus Conference, held in Denver in August 2005, was designed to reach consensus on prescribing, reimbursement, access, education, and research for LTOT. Participants included LTOT patients, who were “the central focus for most of the recommendations,” Doherty said. “All societies and professional and lay organizations should incorporate LTOT patient support into their advocacy efforts for LTOT. This is very important,” he added.

The consensus conference was attended by physicians, nurses, respiratory therapists, and other respiratory care professionals, as well as representatives from government and regulatory agencies, LTOT patient groups, device manufacturers, and professional societies. “There were about 100 people into a room to reach consensus is not easy,” Dr. Doherty said.

An official summary of what transpired at the conference was published (Respi Care 2006;51:519-25). Although attendees agreed on categories for LTOT delivery devices (stationary, portable, and wearable), they did not reach a consensus on specifications, such as the weight or configuration of such devices. “Evidence-based criteria are needed to define what is ambulatory, portable, or wearable. Until we have this evidence, we need the physician, patient, and HME [home medical equipment] provider to collaborate effectively,” Dr. Doherty said.

Consensus was reached on these issues:

- LTOT education is needed. “To ensure quality LTOT and to collaborate effectively, education is necessary.” Dr. Doherty said. One recommendation at the meeting was further development of educational materials in different modalities, including print, internet, and audiovisual-based formats.
- Training of all health professionals in disciplines caring for LTOT patients is needed.
- All patients should have access to the appropriate LTOT delivery systems and accessories to optimize care. There are many technologies, including liquid oxygen systems, oxygen concentrators, and lightweight, portable oxygen concentrator systems. “It is laudable to all the investigators that so many devices that are of benefit to patients have come to market,” Dr. Doherty said.

- Standards for LTOT should be developed further into clinical practice guidelines.
- Reimbursement should be based on the LTOT device that is “best for the patient” as prescribed by a physician.
- LTOT should be reimbursed adequately for the specific device or class of device.
- CMS and other payer organizations should be encouraged to support appropriate reimbursement so new technologies can be developed,” Dr. Doherty said.

Dr. Doherty said. LTOT should be incorporated into disease management or a health maintenance approach to comprehensive care of patients.

A demonstration project should be developed to evaluate the effects of HME/LTOT and to incorporate data into a reimbursement process when LTOT is prescribed in an acute setting. “This was somewhat compelling for the conference,” he said.

Funding is needed for research to evaluate outcomes and the cost-effectiveness of LTOT.
Inhaled corticosteroids are better than sodium cromoglycate in measures of lung function and asthma control in children and adults with chronic asthma, the first-ever systematic review of its kind has concluded.

“The results suggest that the superiority of ICS over SCG may be independent of asthma severity, since results were generally similar among those with milder and more severe asthma,” wrote the researchers, who were led by Dr. James P. Guevara of the department of pulmonary, allergy, and critical care medicine at the University of Pennsylvania, Philadelphia.

“The results also suggest that the strength of ICS over SCG may depend on the dosage of inhaled steroid, since results in favor of ICS were generally stronger among studies with moderate doses than among those with low doses,” said Dr. Guevara.

However, no conclusions could be made about possible differences in adverse events between ICS and SCG because adverse events in the trials chosen for analysis “were reported inconsistently, and most trials were short-term,” they noted. “This may have limited our ability to identify adverse events, particularly those such as growth retardation that require more prolonged monitoring.”

The researchers reviewed 25 randomized, controlled trials that compared the effects of ICS with those of SCG in children and adults with chronic asthma. Of the 25 trials, 17 included 1,279 children and 8 included 121 adults (Cochrane Database System. Rev. 2006; DOI:10.1002/14651858.CD003558.pub2).

In the trials of children, use of ICS was associated with a higher mean forced expiratory volume in 1 second (FEV₁) (a mean weighted difference of 0.07 L) and a higher final end-point peak expiratory flow (PEF) rate (a mean weighted difference of 17.3 L/min), compared with use of SCG.

Use of ICS also was associated with fewer exacerbations (a mean weighted difference of −1.18 per patient year), lower asthma symptom scores, and less bronchodilator use, compared with use of SCG.

In the trials of adults, use of ICS was associated with a higher mean FEV₁ (a mean weighted difference of 0.21 L) and a higher final end-point PEF rate (a mean weighted difference of 28.2 L/min), compared with use of SCG.

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Use of ICS was associated with lower asthma symptom scores than was SCG in the three cross-over trials reviewed as part of the analysis, but not in the one parallel group trial reviewed.

Dr. Guevara and his associates acknowledged that a key limitation of the review was the underreporting of health care utilization and adverse effects among eligible studies.

“With only two trials reporting health care use in pediatrics and no trials in adults, there are insufficient data to clarify whether ICS reduces health care utilization compared to SCG,” said Dr. Guevara.

Trial Compares Fluid Strategies

Conservative • from page 1

In an editorial accompanying the journal article, Dr. Emanuel P. Rivers, FCCP, held that the protocol was not really identical to standard practice, in that the trial excluded patients receiving hemodialysis as well as those with overt renal insufficiency or heart failure. As a result, the patients with low doses, said Dr. Guevara.

Conservative fluid strategies were generally similar among those with milder and more severe asthma,” wrote the researchers, who were led by Dr. James P. Guevara of the department of pulmonary, allergy, and critical care medicine at the University of Pennsylvania, Philadelphia.

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Adjuvant Chemo Is Questioned in Early-Stage NSCLC

Consequences of Involuntary Exposure to Tobacco Smoke: A Report of the Surgeon General

The president of the American College of Chest Physicians, Dr. W. Michael Alberts, said the strong and direct language of the surgeon general’s report should be considered “by smoking parents and the onset of asthma.”

The California Environmental Protection Agency highlighted secondhand smoke’s human toll in a 2005 study cited by the U.S. surgeon general. Exposure resulted in an estimated 3,400 deaths annually from lung cancer, 46,000 deaths from cardiovascular disease, and 24,000 deaths from diabetes in adults younger than age 65.

The latest data on lung growth and pulmonary function showed a causal relationship between maternal smoking during pregnancy and persistent adverse effects on lung function during childhood.

Seeking Solutions

To prevent these risks, the surgeon general said, the smoke must be stopped everywhere.

Creating separately ventilated rooms isn’t an answer to preventing exposure, nor are typical air cleaning strategies sufficient. “The only way to protect nonsmokers from the dangerous chemicals in secondhand smoke is to eliminate smoking indoors,” according to the report.

Arguments that such no-smoking policies would cripple the hospitality industry carry no weight in the surgeon general’s report. Assessing the evidence demonstrates that “smoke-free policies and regulations do not have an adverse economic impact on the hospitality industry,” the report stated.

The report “absolutely” goes physicians more clout with smokers, said Dr. Shy RIGHT side of the report and say that smokers risk pulmonary health of the “near and dear ones” by smoking.
Dark Fungi Emerging as Cause of Often Lethal Infections

Melanin in the cell wall provides coloration of these pathogens and seems to protect against free radicals.

By Nancy Walsh

Las Vegas — Dematiaceous, or darkly pigmented, fungi are emerging as an important cause of disease, and certain types of infections with these pathogens are associated with high rates of mortality, even among the immunocompetent, Dr. Sanjay G. Revankar said at a meeting on fungal infections sponsored by Imedex. This is a heterogeneous group of fungi that includes more than 60 genera and 100 species found worldwide in soil and air. Melanin, present in the cell wall, provides the coloration of these pathogens and appears to be a virulence factor, providing protection from free radicals, hydrolytic enzymes, and ultraviolet damage.

One of the clinical syndromes associated with various species of dematiaceous fungi increasingly being seen is phaeohyphomycosis. Most of the species implicated are opportunists, but some may be true pathogens, said Dr. Revankar of the University of Texas Southwestern Medical Center, Dallas.

The diagnosis of phaeohyphomycosis requires expert interpretation of colony and microscopic morphology. The histologic findings that are typically observed with this species include irregularly swollen hyphae and yeastlike forms. In contrast to many other fungi, there are no adequate serologic or antigen tests for the contrast to many other fungi, there are no adequate serologic or antigen tests for the species of Exophiala, Alternaria, or Phialophora. Successful treatment often requires only excision, although an azole is sometimes also given.

Allergic disease.

Most cases of si-nusitis and bron-chopulmonary mycosis are caused by species of Curvula-raria or Bipolaris. Similarity is characterized by the presence of allergic mucin and elevated IgE; treatment includes surgery plus corticosteroids. Bronchopul-marimentary mycosis has been found in immunocompetent patients, and may be characterized by hemoptysis. Among the pathogens implicated are species of Exophiala and Cladophialaphora.

Lipid amphotericin B is the preferred treatment for these seriously ill patients, followed by an azole if the patient stabilizes, but mortality is high, he said.

CNS phaeohyphomycosis. This infection shows a 3:1 male predominance and has been reported worldwide. “What is re-a-lly unusual is that more than half of pa-tients seem to have no risk factors—no chemotherapy, HIV, or other immunode-ficiency,” Dr. Revankar said.

In a series of 101 patients with CNS infec-tion, the classic triad seen with bacterial amphotericin B, 5-fluorocytosine, and itraconazole was associated with improved survival, but only six patients in the series received this combination. Voriconazole and posaconazole have shown in vitro activity, but there is very little clinical experi-ence with these agents for this indication, he said.

Disseminated phaeohyphomycosis. This has been seen increasingly during the past 10-15 years, probably reflecting the type of patients we are seeing, such as those who are immunocompromised from treatment for other diseases,” Dr. Revankar said. Prior cardiac surgery, particu-larly involving bioprosthetic valve replacements, also has been identified as a risk factor.

In a series of 72 patients, fever was pre-sent in only 70%. Skin lesions were seen in 33%, sepsis in 11%, and eosinophilia in 11% (Clin. Infect. Dis. 2002;34:467-76).

Blood cultures were successfully com-monly revealing Scedosporium prolificans in more than half of patients. Most of the cases were in Spain and Australia. Overall mortality was 79%. In the immuno-compromised it was 84%, and in the immunocompetent it was 65%.

S. prolificans is resistant to all available agents, and no single drug or combination of drugs was associated with improved outcome in this series. In two cases, how-ever, the combination of an azole plus terbinafine was successful. “I wouldn’t recommend this routinely, but if you have no other options it might be something to consider,” Dr. Revankar said. Terbinafine is not considered a useful systemic drug because of its pharmacokinetics, but in these cases there really is not much else left,” he said.

Hyperglycemia Linked to ICU Mortality in Specific Disorders

By Jeff Evans

Washington — Hyperglycemia is associated with increased mortality in ICUs, independent of the severity of illness, according to the largest and most definitive report on the subject to date.

In a review of 216,775 consecutive patients who were admitted for the first time to ICUs at Veterans Affairs medical centers, the association of hyperglycemia and increased ICU mortality was strongest in patients with cardiovascular disorders, such as myocardial infarction, unstable angina, and stroke, and in those without diagnosed diabetes, Dr. Mercedes Falciglia reported at the annual scientific sessions of the American Diabetes Association.

For cardiovascular disorders and many other diseases for which data was available, there was a statistically significant association with increased ICU mortality, the risk of death increased in a stepwise fashion with increases in the level of mean blood glucose from 111-145 mg/dL to more than 300 mg/dL.

Patients without diagnosed diabetes had an increased risk of death associated with hyper-glycemia that ranged from 40% at the lowest level of hyperglycemia to a fourfold greater risk at the highest levels, while individuals with diagnosed diabetes did not have a significantly increased risk of death unless their blood glucose level exceeded a value for 146 mg/dL.

The study involved mostly men (97%) in 177 surgical, medical, and cardiac ICUs at 73 VA medical centers during 2002-2005. Two-thirds of the patients in the study were older than 60 years of age, and 29% had diagnosed diabetes.

Using a model that has been validated in determining the severity of illness, Dr. Falciglia and her colleagues analyzed the inability to establish glycemic control in hospitalized patients with pneumonia, the likelihood of death did not change in step with the severity of hyperglycemia. Other diseases, such as chronic obstructive pulmonary disease and liver failure, showed no significant relationship between hyperglycemia and ICU mortality.

Previous studies have reported hyperglycemia as a significant risk factor for mortality in the ICU in patients with an acute myocardial infarction, coronary artery bypass graft, or stroke, and for patients in general staying in pediatric or adult ICUs. But many of these studies have been limited by inadequate adjustment for the severity of illness, small sample sizes, and measurement of blood glucose levels only at entry to the ICU, Dr. Falciglia said.

Randomized trials of critically ill patients in surgical and medical ICUs have shown that tighter control of blood glucose levels reduced mortality. But a few recent trials involving patients with acute myocardial infarction have reported mixed results, which have been attributed to insufficient power and the inability to establish glycemic control in intervention groups. This led many investigators to question whether higher glycemic control can be generalized across all critically ill patients and all disease types, she said.

Findings from the current study suggest that “future randomized trials examining glycemic control in hospitalized patients may benefit from focusing on diseases where the risk of death from hyperglycemia appears to be greatest,” Dr. Falciglia said.

“In diseases where we were not able to demonstrate a correlation between hyperglycemia and mortality, the benefit of tighter glycemic control may still impact other adverse outcomes that we did not measure in this study,” she added.
An Italian study points to a correlation between bradyarrhythmias and hypoxemia during sleep.

BY KATE JOHNSON
Elsevier Global Medical News

BOSTON — Obstructive sleep apnea is a risk factor for cardiac arrhythmias, and cardiologists should consider the diagnosis and treatment of this sleep disorder in terms of cardioprotective benefit, according to Dr. Maria Teresa La Rovere.

In a study she presented in a poster at the annual meeting of the Heart Rhythm Society, Dr. La Rovere found a significant correlation between oxygen desaturation in obstructive sleep apnea syndrome (OSAS) and bradyarrhythmias, but not tachyarrhythmias.

“We found strong evidence that bradyarrhythmias are related to sleep apnea syndrome—while for tachyarrhythmias, the role of oxygen desaturation is more controversial,” said Dr. La Rovere in an interview.

Other factors may contribute to tachyarrhythmias, such as β2-agonist treatment, which was found to be more common among patients who had tachyarrhythmias, she said.

The study included 300 subjects who were referred for sleep studies because of snoring. OSAS was diagnosed in 248 (83%) of them. Although there was a trend toward more arrhythmias in the patients with OSAS than in those without OSAS (18% vs. 11%), the difference was not significant, reported Dr. La Rovere, a cardiologist at the Fondazione Salvatore Maugeri clinic in Pavia, Italy.

Patients who exhibited arrhythmias during sleep were older than nonarrhythmic subjects (58 vs. 52 years) and had more profound oxygen desaturation (23% vs. 13% total sleep time spent with less than 90% oxygen saturation). While no significant relationship was found between tachyarrhythmias and hypoxemia, bradyarrhythmias were significantly correlated. Patients who had bradyarrhythmias had significantly more hypoxemia, compared with nonarrhythmic patients, with an apnea-hypopnea index of 34 vs. 31 and an oxygen saturation nadir of 69% vs. 77%.

Dr. La Rovere said a recently published study performed in the general population and using a stricter definition of OSAS found similar evidence that people with sleep-disordered breathing have between two and four times the odds of having complex cardiac arrhythmias, compared with those without sleep apnea (Am. J. Respir. Crit. Care Med. 2006;173:910-6).

Specifically, the results of the study showed that sleep-disordered breathing was associated with four times the odds of atrial fibrillation, three times the odds of nonsustained ventricular tachycardia, and almost twice the odds of complex ventricular ectopy. There was no adjustment for age, sex, body mass index, and prevalent coronary heart disease.

Another recently published study found that OSAS was associated with almost double the risk of stroke or death, even after adjustment for age, sex, race, smoking status, alcohol consumption, body mass index, diabetes mellitus, hyperlipidemia, atrial fibrillation, and hypertension (N. Engl. J. Med. 2003;353:2044-41).

While treatment of OSAS with continuous positive airway pressure (CPAP) is well established for the relief of sleep disturbances and improvement in quality of life, Dr. La Rovere says cardiologists should also recognize its value in preventing the development of cardiac arrhythmias.

“The mechanism of breathing disorders also affects cardiac function. So in the long term, these subjects may also develop heart failure,” she said.

“I think there is an increasing awareness,” but cardiologists have not yet focused on the cardiac benefits of treating sleep apnea.

She added that while CPAP not only prevents sleep-related heart rhythm disturbances but also can correct them, it is advisable to consider a pacemaker for patients whose CPAP compliance is questionable. “I know the CPAP will correct my patient’s arrhythmia, but I do not know if my patient will use the CPAP,” she said.

OSAS Underestimated in Pediatric Down Syndrome

BY KATE JOHNSON
Elsevier Global Medical News

YOUNG CHILDREN with Down syndrome should be routinely evaluated for sleep disorders, regardless of whether their parents perceive any problems, according to Dr. Sally R. Shott of the Cincinnati Children’s Hospital Medical Center.

Their 5-year longitudinal study of 56 children with Down syndrome (DS) revealed that while 80% had abnormalities revealed on polysomnography (PSG), only 23% of parents correctly predicted the problem (Arch. Otolaryngol. Head Neck Surg. 2006;112:432-6).

All children entered the study at age 2 years or younger.

“In general, parents of children with DS significantly underestimated the severity of their child’s sleep disturbances,” the investigators said. Because of the high incidence of obstructive sleep apnea syndrome in young children with Down syndrome, and the poor correlation between parental impressions of sleep problems and PSG results, the investigators recommended baseline PSG in all children with Down syndrome at age 3-4 years.

The study involved overnight PSG that was performed in all children at a mean age of 42 months. If parental history or examination results suggested possible upper airway obstruction before the scheduled PSG, the test was performed earlier.

Twentysix of the 56 children underwent multiple PSgs.

The PSG generated data regarding sleep duration, percentage of time spent in various stages of sleep, sleep arousals, apnea index (number of obstructive sleep apnea episodes per hour of sleep), hypopnea index (number of hypopneas per hour of sleep), apnea/hypopnea index or obstructive index (OI, desaturation index (number of oxygen desaturation episodes per hour of sleep), time spent during sleep with oxygen desaturation less than 90%, peak and average end-tidal carbon dioxide, and time during sleep with end-tidal carbon dioxide greater than 45 mm Hg and greater than 50 mm Hg.

Of the 56 children, 57% had abnormal results as defined by abnormal OI, hypoxemia, and/or hypoxemia—evidence of obstructive sleep apnea syndrome (OSAS). However, when an elevated arousal index was included, abnormalities were seen in 80%.

“The significance of an elevated arousal index alone, with the other measured components of the PSG being normal, has not yet been fully established,” noted the authors. However “the increased arousal rate in children with DS may affect their daytime function and could exacerbate learning or behavior disorders.”

These problems may then be ‘assumed to be caused by the limited intellectual abilities commonly assigned to children with DS.”

Before the sleep study, 45 of the 56 parent couples completed questionnaires about their children’s sleep. Eleven of the 35 parents reported that their children had sleep problems, but only 36% of these parents were correct. Of the 24 parents who reported no sleep problems in their children, 54% were incorrect.
Bocavirus Reported for First Time in U.S. Children

The virus was found in 5.2% of respiratory patients younger than 2 years in New Haven, Conn.

BY JANE SALODOF MACNEIL
Elsevier Global Medical News

SAN FRANCISCO — A new parvovirus linked to respiratory tract infections in young children is circulating in the New Haven area of Connecticut, an infectious disease laboratory at Yale University has reported.

Dr. Deniz Kesebir said the laboratory found the pathogen, human bocavirus (HBoV), in respiratory specimens from 22 (5.2%) of 426 children under the age of 2 years who presented with respiratory symptoms at hospitals and clinics associated with the university.

“To our knowledge, this is the first description of human bocavirus in the United States,” Dr. Kesebir of Yale University, New Haven, said at the annual meeting of the Pediatric Academic Societies.

Canine and bovine forms of the virus are known to infect animals of all ages, but cause illness primarily in infants of those species, according to Dr. Kesebir. She said young infected cattle can have massive diarrhea.

Investigators working at Karolinska University Hospital, Huddinge, Sweden, published the first report of a bocavirus infecting a human in September of last year (Proc. Natl. Acad. Sci. USA 2005;102:12891-6). They identified the virus in 17 (3.1%) of 540 children less than 3 years old who were hospitalized for respiratory disease.

A month later, an Australian group reported finding the new pathogen in 18 (5.6%) of 324 children in the same age group who had respiratory tract infections (J. Clin. Virol. 2006;35:99-102).

Japanese investigators published a third report this March (J. Clin. Microbiol. 2006;44:1132-4). They found HBoV in 18 (5.7%) of 318 nasal swabs from children under the age of 3 years who were treated for respiratory tract infections.

Dr. Kesebir said the Yale infectious diseases laboratory headed by Dr. Jeffrey S. Kahn did a retrospective search for HBoV in children less than 2 years of age who presented with respiratory symptoms but screened negative on a direct immunofluorescence assay (DFA) for adenovirus, respiratory syncytial virus, and various influenza viruses.

All the positive samples were taken from children who presented with symptoms from October through April. Specimens collected from May through September were negative for HBoV.

The researchers do not know whether the virus jumped species or just had not been detected in humans before.

Dr. Kesebir reported on 20 of the 22 positive cases at the meeting, which is sponsored by the American Pediatric Society, Society for Pediatric Research, Ambulatory Pediatric Association, and American Academy of Pediatrics. Her presentation excluded data on one child whose chart was unavailable for review and another who was infected with an adenovirus.

She said 15 (75%) of the remaining 20 infected children were hospitalized for up to 18 days. Nine children were hospitalized for 1-3 days and three for 4-18 days. Another three developed nosocomial infections. The other five children were seen in an emergency department or clinic. Seventeen children (85%) had a comorbidity, which she defined as asthma, eczema, bronchopulmonary dysplasia, or seizures.

For signs and symptoms, she reported that 19 children presented with rhinorrhea, 15 with fever, and 14 with cough. Ten children presented with wheezing, and six had oxygen saturation levels below 87%.

Abnormal chest x-rays were seen in 13 (72.2%) out of 18 children for whom chest x-rays were available. Dr. Kesebir cited peribronchial cuffing, infiltrates, and hyperinflation.

Of particular interest were eight children who presented with gastrointestinal symptoms. Dr. Kesebir and her colleagues concluded that HBoV is associated with upper and lower respiratory tract disease in children, and speculated that it also may be the cause of gastrointestinal symptoms.

Among the future studies planned are screening of children up to age 5 for HBoV, DFA screening of positive specimens for coinfection with other viruses, and a search for the cause of gastrointestinal symptoms.

In the interview, Dr. Kesebir said the researchers do not know whether the virus jumped species or just had not been detected in humans before.

“It is in adults as well, but most of the findings of symptoms are in children,” she said. “Probably the adults are carriers, and are less symptomatic or immune,” she added.

Prednisolone Eased Rhinovirus-Linked Recurrent Wheezing

Children with rhinovirus who received oral prednisolone suffered significantly less recurrent wheezing compared with children with respiratory syncytial virus who also received the steroid or children who received placebo.

By reducing recurrent wheezing, prednisolone use significantly decreased the time children required supplemental oxygen. The other five children were seen in an emergency department or clinic. Seventeen children (85%) had a comorbidity, which she defined as asthma, eczema, bronchopulmonary dysplasia, or seizures.

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Prednisolone was well tolerated; no clinically significant adverse events were reported.
New Drivers of ICU Policy and Organizational Change

Physician and nurse supply, regulatory agencies, and the public’s expectation of quality care will drive changes.

Recently, the ICU has experienced fundamentally new drivers of policy and organizational change that have and will continue to result in new directions of care for all critically ill patients, even those not yet admitted to the ICU. These drivers include the effects of new evidence-based medicine, supply and organization of critical care personnel, organization of the ICU, and pressing internal and external influences.

Pre-ICU Care
Evidence-based medicine has always driven care of the ICU patient, but several papers now describe data that require a fundamental change in our thinking about the approach to the initial care of the critically ill patient. In years past, intensivists primarily focused on the ICU patient in the ICU, especially continuing management, sometimes over a long period of time. Recent data suggest the importance of very early diagnosis and early intensive therapy in acutely ill patients, especially those with sepsis. Early and goal-directed therapy, initiated within 6 h in the emergency department, as compared to standard therapy, reduced the mortality of severe sepsis and septic shock (Rivers et al. New Engl J Med 2001; 345:1368). The approach involved adjustments of cardiac preload, afterload, and contractility to balance oxygen delivery with oxygen demand. This concept of immediate and aggressive care has been extended to the acutely ill hospitalized patient, not yet in the ICU.

The need for early intervention extends beyond the ICU patient, with the goal of rapidly responding to a pre-identified hospitalized patient at risk in order to provide early onset of therapy. Like early therapy for sepsis, implementation of a rapid response team is also associated with improved outcomes in the hospitalized patient (Bellomo et al. Crit Care Med 2004; 32:916). The team of hospital personnel, usually including an ICU nurse, respiratory therapist, and/or physician, responds to set patient distress triggers and treats patients immediately. Common patient triggers include hypotension, tachypnea, desaturation, oliguria, or sometimes, simply, the nurse’s assessment that the patient “just doesn’t look right.” This approach to acute and immediate care of the hospitalized patient is one of six initiatives in the Institute of Healthcare Improvement’s “Saving 100,000 Lives” Campaign (www.ihi.org). At the University of Kansas, the institution of a rapid response team has been accepted and utilized. Initial data suggest a decrease in codes outside the ICU.

Both of these initiatives represent a fundamentally different approach to the initial diagnosis and care of a critically ill patient. Trauma surgeons have always described the importance of the “golden hour” of immediate care in trauma patients. Early, goal-directed therapy of sepsis and the rapid response team approach to a hospitalized patient in distress represents an understanding of the importance of reversing pathophysiologic mechanisms early in the course of the illness, rather than treating aggressively when the disease is fully developed. Important improvements in outcome are present with such an approach, especially in sepsis.

The Team Approach
One of the important concepts of the rapid response team is that it is a team of skilled professionals bringing different competencies to care for the patient. In the last 10 to 15 years, the concept of intensive care medicine becoming a “team sport” has developed. In contrast to the physician being captain of the ship, now the physician is seen as part of the team that cares for the ICU patient. This team includes doctors, nurses, respiratory therapists, physical therapists, nutritionists, social workers, and other skilled professionals. Discussions and decisions are made using a team approach.

An excellent example of this approach is the multidisciplinary team rounds concept, where short, patient-directed rounds are made with the team at the beginning of the day. Ward rounds follow. Multidisciplinary team rounds have the advantage of brevity, information supplied from all members of the team, and focused decision making. The recent University Health System Consortium ICU benchmarking study indicated that ICU units, with an intensivist-directed team and multidisciplinary team rounds, are better performers of evidence-based guidelines (Keroack et al. Am J Med Qual 2006; 21:91).

Workforce Issues
A very important driver of current and future ICU care is the increased demand for intensivists, a demand not met by supply. Almost 6 years ago, the American College of Chest Physicians, the American Thoracic Society, and the Society of Critical Care Medicine collaborated in a workforce project that indicated an inadequate supply of intensivists (Agnus et al. JAMA 2000; 284:2762). The data have proven accurate in describing the demand but under-estimated the rate at which the demand has increased. Popular opinion 10 years ago was that there was a physician surplus, especially in specialty medicine. Now, it is clear that a physician shortage exists, especially for ICU physicians.

Recently, specific recommendations have been developed by the same three societies to meet the crisis. They include the adoption of standards to ensure uniformity and quality, leveraging of information technology, development of incentives to attract health-care professionals into critical care, and research to define the optimal role for ICU professionals in delivery of critical care (Ewart et al. Chest 2004; 125:1518).


Quality of Care
In addition to this demand, internal and external factors are affecting ICU policy and organization.

The national Leapfrog Group is promoting several criteria that they believe improve the quality of care delivered. A consortium of businesses directs their employees to choose hospitals that meet the Leapfrog ICU standards. These ICU standards include the presence of an intensivist during daytime hours, who provides care exclusively in the ICU, as well as returns pages and returns to the bedside within 5 minutes. Currently, only 10% of hospitals in the United States meet this standard. Another important external influence is the mandated Joint Commission on Accreditation of Healthcare Organizations ORTX performance measure.

Measures are available for multiple disease states, such as community-acquired pneumonia, acute myocardial infarction, and congestive heart failure. ORTX measures for the ICU are being developed. Draft measures include stress ulcer prophylaxis, deep venous thrombosis prophylaxis, appropriate sedation, use of intensivists, length of stay measures, and risk-adjusted mortality. Current measures are compiled by each hospital and publicly reported on the Internet. It is anticipated that ICU core measures would also be publicly reported.

Quality of care is an expectation, not only from patients, but also from hospitals and independent agencies.

The objectives of the Institute of Healthcare Improvement’s “Save 100,000 Lives” Campaign is to save lives through the introduction of six, proven, health-care interventions over 18 months (ended June 14, 2006) and to enroll a minimum of 1,600 hospitals to accomplish the goal. In addition to deployment of rapid response teams, initiatives impacting the ICU are prevention of central line infections, prevention of surgical site infections, and prevention of ventilator-associated pneumonia.

Increasing Demands for Care
Societal issues are also impacting the ICU. As the baby boomers age, there will be increasing numbers of geriatric patients in the ICU. The doubling of patients over the age of 65 years by 2030 will require a marked expansion of ICU resources, unless other strategies, such as rationing, are pursued. Additionally, the potential of a worldwide pandemic, such as the avian flu, would require the same increases in ICU resources, but they would be needed now, not 20 years from now.

Conclusion
Many forces, influences, and new data are changing our approach to the care of the ICU patient. External forces, such as physician and nurse supply, regulatory agencies, and the public’s expectation of quality care, will clearly continue to drive ICU policy and organizational structure.

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Editor’s Insight
Dr. Deborah Shure, Master FCCP
Editor Pulmonary Perspectives
Dr. Aymara Robles, FCCP
Deputy Editor Pulmonary Perspectives

Many changes in patient care in the past 15 years have seemed less than helpful to many physicians. There has been a sense of barriers created in intervening levels of organizational control. The changes described by Dr. Pingleton in this Perspective are actually welcome ones that should fit with our training and our community’s approach to patient care. It is encouraging to see the team approach, utilizing the skills of many health-care professionals, recognized as an effective tool. The concepts of early and targeted therapy based on solid outcomes studies, will also be welcome by many physicians. It is time to exercise intensive care prevention, as well as intensive care. We can all look forward to more advances in this area.

—Editor
NEWS FROM THE COLLEGE

PRESIDENT’S REPORT

The Importance of Health-care Teams

In a departure from my usual habit of ‘‘penning’’ the monthly President’s Report in an airport, I am, at the moment, back in my office at the H. Lee Moffitt Cancer Center and Research Institute. I have just emerged from the mountain of e-mails that awaited my return from California, where I attended the American Association of Critical-Care Nurses (AACN) National Teaching Institute and Critical Care Exposition and the American Thoracic Society (ATS) meeting. Al Lever and I spent a considerable amount of time going back and forth on Interstate 5 in an attempt to be in two places at one time. Despite the hectic nature of the trip, it was an unqualified success.

If you ever have a chance to attend the AACN meeting, by all means, attend (more importantly, advise your ICU nurses to attend). I was very impressed, not only by the quality of the program, but the vast array of subject matter and presentations.

I was most impressed, however, by the enthusiasm of the attendees. The feeling was almost palpable. The ACCP values its strategic alliance with the AACN. Much as we do at CHEST each year, the AACN presents a Presidential Symposium, at which the presidents of the ACCP, the AACN, and the Society of Critical Care Medicine (SCCM) join to deliver short talks on a theme, followed by a panel discussion. (The ATS was unable to participate this year due to the proximity of their meeting.) This year’s AACN topic, as chosen by President Debbie Brinkner, was “Team Competence.” My talk addressed the efficient and effective team. I thought I would relay a few facts from my talk:

A number of factors have worked against the use of teams in health care, but new team-oriented organizational structures and work patterns are evolving. The easy part has been changing the organizational chart and writing the “PKPs.” The more difficult part has been modifying interpersonal and interprofessional relationships, along with the modified work patterns.

For teams to be effective, the ‘‘teamwork’’ concept must be embraced by all components of the organization. Clinicians, especially physicians, have been slow to adapt to the concept. Traditional training does not include the study of teams or teamwork. Moreover, the education of physicians promotes values independence and personal responsibility for individual decisions, rather than team (or collective) decision making.

This view works against the development of effective multidisciplinary teams in the clinical setting.

There is no doubt that health care in 2006 is a team sport. The development of effective and efficient health-care teams is crucial to the delivery of quality, patient-focused care as we go forward.

Inside ACCP: Health Affairs Division Continues to Grow

BY LYNN MARCUS
ACCP Vice President of Health Affairs

AND

MARLA BRIGHTA
ACCP Assistant Vice President, Health Affairs

The ACCP Health Affairs Division grew from a seed that was planted in 1954 when the Tobacco Industry Research Committee was advised to send representatives to the ACCP annual meeting. Their mission was to report back on the results of research conducted on the health effects of tobacco and to counter the results with a public relations campaign promoting “Big Tobacco’s” message. A Committee of the American Medical Association, created in 1993 in response to the RBRVS and the expansion of the Current Procedural Terminology and Relative Value Update Committees of the American Medical Association, was formed in 1993 in response to the RBRVS and the creation of the Current Procedural Terminology and Relative Value Update Committees of the American Medical Association.

The information presented at the 1954 ACCP annual meeting and throughout the years in the CHEST journal propelled the ACCP toward understanding the importance of initiating a public dialogue that included education addressing the hazards of tobacco—resulting in further elimination of the demand for the critical care workforce crisis; launched a webinar series on practice management topics.

Health Affairs: Past, Present, and Future

1968: Deliberated with the US Public Health Service on tobacco control

1979: Initiated the non-smoking pledge at the ACCP annual meeting Convocation

1983: Worked to pass the Smoking Prevention Health and Education Act of 1983

1998: Worked with (now Senator) Richard Durbin advocating for smoking bans on domestic flights; formed the Government Relations Committee

1991: Submitted amicus brief in Cipollone v Liggett Group Supreme Court case

1993: Formed the Practice Management Committee

2006: Successfully advocated for the writing and publication of the Health Resources and Services Administration report on the pulmonary and critical care workforce crisis; launched a webinar series on practice management topics


2008: To successfully advocate for appropriate reimbursement for physician services under Medicare

2010: To work with Congress to write and pass legislation addressing the demand for increasing the critical care workforce

2020: To successfully advocate for federally mandated education addressing the hazards of tobacco—resulting in further elimination of the critical care workforce crisis.

Dr. Udaya Prakash, FCCP, and Ms. Lynne Marcus.
Amassadors Group member, Monir Almassi, organized a very successful 3K Walk/Run for Kids’ Lung Health at Wisconsin Hills Middle School on May 3, 2006. About 200 students, parents, and staff participated in this event, which is in its second year. A lesson on how smoking affects your lungs and how to keep your lungs healthy was presented, which was followed by the walk/run. Each participant received a Love Your Lungs™ wristband and a Puffree keychain. Mrs. Almassi also distributed a booklet about teens and smoking that she secured from her area Police Department.

The art teachers encouraged the children to create posters with an anti-smoking message, and these posters lined the school’s hallways during the week of the walk/run. The CHEST Foundation salutes Monir Almassi and thanks her for all her efforts in organizing this very successful event!

Ambassadors Group members seek out new opportunities to educate the general public about the dangers of smoking, to communicate the values and mission of The CHEST Foundation, and to network with other exceptional ACCP members and their families. Recent Ambassadors Group activities have included providing lung health education in schools, universities, and sororities; funding an annual Humanitarian Recognition Award; increasing health awareness through the “Love Your Lungs™” wristband project; and publishing the Stories at the End of Life booklet set.

Ambassadors Group

About 200 students, parents, and staff participated in the 3K Walk/Run for Kids’ Lung Health at Wisconsin Hills Middle School, held May 3, 2006.
In the last edition of Sleep Strategies, Dr. Peter Gay quoted a Neil Young song about tin men in his article about recent changes in CMS coding and reimbursement for central sleep apnea and complex sleep-disordered breathing. Not to be outdone in the music department, in this month’s Sleep Strategies, I offer my own quotation from another midwestern singer-songwriter, Bob Dylan. Just as Dylan sang about the tumultuous 60s and how “the times they are a changin’,” the field of sleep medicine is experiencing tumultuous times, as well. These are times of tremendous growth (practitioners and laboratories), changes in physician credentialing (new board certification opportunities), and changing technology (increasingly sophisticated diagnostic and treatment options). Another trend that is beginning to have an impact on sleep medicine is the quality of care movement. Quality of care is something that all of us strive for in our clinical work, no matter what our practice circumstances are. All would agree that delivering quality care is something of a central tenet of our profession. After all, who among us would want to be associated with anything less than the highest “quality of care”? Quality of care, while certainly not new, is currently receiving a great surge of attention from physicians, insurers, health policy makers, and regulatory agencies. Part and parcel of quality of care is our attempt to improve the care we give our patients. Implicit in quality of care discussion is that we are never satisfied with quality care; we want to improve it, to make the quality better. Hence, the recent interest in quality improvement initiatives, both within the ACCP and outside, is understandable. The quality of care revolution has not gone unnoticed by the ACCP sleep medicine community. The Sleep Institute and Sleep Medicine Network have discussed this in various ways over the past year. Other groups in the field are doing the same. Dr. D. Levinson. “It is through a consensus conference on the ‘continuing care’ of the patient with sleep apnea. Continuing care is an important but poorly understood aspect of care that I have often termed a ‘black box.’ Looking inside ‘the box,’ we see a web of relationships that sleep apnea patients have with their primary care physician, their sleep center and their primary care physician, their sleep medicine specialist. One can rightly ask, ‘Who is in charge?’ and ‘How do we know that the patient is successful with therapy?’ The answer to these questions is that we don’t. Often, the patient is left unsupported because the parties involved assume someone else is taking care of the patient. In reality, no one is taking care of that patient. The Continuing Care Consensus Conference aims to open up the black box and try to make sense of what we find inside. Ultimately, we plan to develop recommendations about rationalizing the continuing care of the patient with sleep apnea. All the main conclusions will be represented at the conference, including sleep apnea patients themselves. The conference is planned for early September.” T e Office of Inspector General (OIG) posted its Semiannual Report to Congress for October-March of FY 2006 and an accompanying press release (www.oig.hhs.gov/publications/docs/press/2006/SemiannualSpringRelease2006.htm). The Semiannual Spring Release (www.oig.hhs.gov) is the first part of OIG’s mission. OIG continues to be a strong voice within HHS to improve the efficiency and effectiveness of the Department and to sanction those who defraud its programs. The Semiannual Report describes OIG investigation and evaluation and audit reports finalized during the reporting period. To read about OIG activities go to: http://oig.hhs.gov/publications/semiannual.html. E ducating our primary care colleagues is essential to better recognition of disease. But knowing how to give sleep apnea patients the best care possible in order to optimize clinical results is equally important. The ASA addresses this in point 2 of its letter: as much attention needs to be given to the long-term management of the patient as is given to making the appropriate diagnosis in the sleep laboratory. The Sleep Institute fully agrees. ‘That’s why the other large project we are planning is a consensus conference on the “continuing care” of the patient with sleep apnea. Continuing care is an important but poorly understood aspect of care that I have often termed a “black box.”’
ACCP WORLDWIDE

International Meetings Successful in Italy and Spain

Dr. Francesco de Blasio, FCCP, and Mr. Antonio Schiaivoli submitted the following report:

The ACCP Italian Chapter National Meeting was held May 4-6, 2006, at Science City Congress Center, Naples, Italy. Co-Chairmen of the meeting were Dr. Francesco de Blasio, FCCP; Dr. Mario Del Donno, FCCP; Dr. Mario Polverino, FCCP; Presidents of the meeting were Dr. Dario Olivieri, FCCP, and Dr. Giuseppe U. Di Maria, FCCP.

The scientific program included three postgraduate courses (pulmonary rehabilitation, pulmonary diagnostic, and cardiopulmonary exercise testing), one ACCP forum on COPD, nine plenary laboratory Care (molecular pathology, clinical and radiologic grand round, one interactive case session, and two original communications oral presentation sessions.

The meeting registered the highest total attendance ever, with more than 750 registered participants (120 faculty included). ACCP President Dr. W. Michael Alberts, FCCP, CHEST Editor in Chief Dr. Richard S. Irwin, FCCP, and ACCP CEO Mr. Alvin Lever, FCCP (Hon) were among invited faculty and actively participated in the opening ceremony with the awards recognition to young researchers and acknowledgments for those international officers whose terms are ending this year. Dr. Giuseppe U. Di Maria, FCCP, International Regent for the ACCP Italian Chapter, announced that Dr. Francesco de Blasio, FCCP was unanimously nominated by the Italian Chapter Board of Officers as the new International Regent.

Dr. Jorge Sinclair Avila, FCCP, submitted the following report:

Successful Meeting in Spain

The “First International Campus of Respiratory Care” took place in Madrid, Spain, from May 3-5, 2006, with the endorsement of the ACCP. Forty-two distinguished professors from nine countries comprised the faculty, and the scientific committee had representatives from SECUR (Spanish Society of Respiratory Care), the ACCP, the American Association of Respiratory Care, The International Council of Respiratory Care, and the International Alliance of Respiratory Care and Applied Technologies. Antonio Esquinas, MD, FCCP; President of SECUR, and Jorge Sinclair Avila, MD, FCCP, Chair of the ACCP Council of International Regents and Governors, were Director and Co-Director of the congress.

More than 150 attendees represented clinicians, intensivists, pulmonologists, respiratory therapists, nurses, and critical care residents. There were three master lectures and 20 seminars, covering such topics as organization, equipment, and techniques of respiratory care; respiratory care in conventional mechanical ventilation; ventilator technology; respiratory care in cardiopulmonary resuscitation, and preventing infection in the ICU.

Dr. Avila discussed the roles of the ACCP and The CHEST Foundation and invited attendees from several countries to become members of the College. The meeting was regarded as a great educational event by everyone involved.

Collaborating To Advance Care,
Detection and Management of Depression and Anxiety in COPD: A Multidisciplinary Scientific Workshop

September 15 – 16, 2006
American College of Chest Physicians
Northbrook, IL
Chair: Janet Maurer, MD, MBA, FCCP
Co-Chair: Nicola A. Hamania, MBBS, FCCP

Join a multidisciplinary team of investigators and clinicians to discuss the interplay of depression and anxiety in patients with COPD. This cooperative review of best practice standards and examination of patient care issues will promote understanding that will empower investigators to identify research needs and direct future studies. Clinicians to better diagnose and treat patients with COPD.

Attendees will:
- Review the prevalence of depression and anxiety in patients with COPD.
- Assess the accuracy of currently validated screening tools.
- Evaluate the efficacy of current therapies by integrating results from high-grade published studies.
- Identify the future research needed to improve diagnosis and management strategies.
- Disseminate the findings and recommendations to key audiences.

Register now for discounted fees.
Online registration available at www.chestnet.org.

Supported by NIH grant #13MH073328.
Additional support from the Alpha One Foundation.

Collaborative Care to Manage Depression and COPD

By Soo Borson, MD
Workshop Planning Committee and Faculty Member

Depression is a common complication of COPD and is often associated with significant anxiety. Managing depression and anxiety effectively in primary and specialty medical settings is considerably more complicated than prescribing an antidepressant medication.

Over the last 10 years, extensive evidence has been developed that collaborative care—that is, collaboration between a mental health provider or team and the patient’s principal physician—achieves much better outcomes for mood disorders than management by the physician alone.

Collaborative care is a structured approach to managing patients who are not responding adequately to antidepressant interventions offered by the primary physician. A specially trained depression care manager, who works in the patient’s primary healthcare site, collaborates with the primary care provider to improve the depression outcomes. Collaborative care models facilitate access to specialized mental health interventions without requiring that patients leave their usual medical care setting.

Evidence supporting the value of collaborative care for patients with serious medical illness will be presented during the “Detection and Management of Depression and Anxiety in COPD” multidisciplinary scientific workshop to be held on September 15 and 16, 2006, at the ACCP headquarters in Northbrook, IL. The workshop is funded by the National Institute of Mental Health.

Visit www.chestnet.org/education/ courses/dmdacopd06/index.php or call ACCP Customer Relations at (800) 343-2227.
Board certification and maintenance of certification are of great importance to physicians—more so today than in any other period in history. As of 2005, board certification issues time-limited certificates that necessitate subsequent recertification. Most board certifications are at intervals of 10 years or less, with application fees for renewal ranging from $1,000 to $2,000 or more. However, time-limited certification is not a new concept in all areas of medicine. The American Board of Family Medicine has issued time-limited certificates since 1970, and the American Board of Surgery has had a program in place since 1976. The future theme is that board certification for life is a thing of the past. In addition, maintenance of certification is now a growing program that entails shifting from testing that is conducted every 6 to 10 years to a more continuous process of assessing physician competence. Maintenance of Certification includes the evaluation of four components: (1) professional standing; (2) continued learning; (3) cognitive expertise; and (4) performance in practice. As of January 2006, the American Board of Internal Medicine (ABIM) implemented the completion of a self-evaluation module for practice performance, a peer-and patient-feedback module, and participation in approved quality improvement programs developed by a medical group, a health plan, an insurer, or a medical society. Board certification changes represent a response to the quality improvement concerns of the public and those of the Institute of Medicine. This was further highlighted in the February 2005 issue of the Annals of Internal Medicine by Dr. Choudhry and colleagues. He and his colleagues found, through a systematic review of the literature, an inverse relationship between the number of years that a physician has been in practice and the quality of care that the physician provides (Choudhry NK, Fletcher RH, Soumerai SB). Systematic review of the relationship between clinical experience and quality of health care. Ann Intern Med 2005; 142:260-273).

Interestingly, patients are also increasingly more convinced that there is a connection between physician quality and board certification. The ABIM commissioned a poll to assess the importance of certification to the public, and the results were outlined by the Gallup Organization in 2004. Key findings indicated the relative importance of physician’s quality indicators, as expressed by patients: 1.73% = Re-evaluation of physician qualification is necessary every so often. 2.68% = Physicians should periodically pass a written test of medical knowledge or have a high success rate for the diseases they treat most often. 3.60% = Physicians should have a low number of malpractice claims. 4.64% = Physicians should have evaluations by an independent board of doctors. 5.58% = Physicians should have high ratings from their patients. 6.52% = Physicians should practice technical skills in a simulated situation. 7.49% = Physicians should obtain high ratings from the physicians with whom they work. 8.47% = Physicians should earn a credential or award for high quality patient care. 9.43% = Physicians should obtain high ratings from the nurses with whom they work. The era of certification and maintenance of certification is not without critics. There are many who have indicated that these new requirements place unnecessary administrative and financial burdens on physicians. There are others who have indicated that the processes in place will not establish the expected goals, which is improved medical practice and patient care. The ACCP is working with ABIM on how best to structure their systems and educate physicians about these new requirements. Identifying collaborative efforts with ABIM to assist in this transition is by far the best strategy. More can be learned about this during ACCP’s August 2006 Pulmonary, Critical Care, or Sleep Medicine Board Review courses in Orlando, FL. Visit www.chest.net/education/calendar.php. Information about ABIM’s board certification and Maintenance of Certification program and requirements can be found at www.abim.org/resources/publications/PD04-0321-2006.pdf. I hope this article has highlighted some of the important points that you, as a physician, should be aware of and the value your patients might be placing upon having board certification.

For supplemental information, please contact: American Board of Internal Medicine, 310 Walnut Street, Suite 1700, Philadelphia, PA 19106-3699; www.abim.org

Board Certification: What Does It Mean to You?

BY ED DELLERT, RN, MBA
ACCP Vice President, Educational Resources

Salt Lake City: Let’s Eat!

Food, drink, and fun are readily available any day of the week in Salt Lake City. It’s true! Restaurants, bars, clubs, and even breweries offer an array of options to suit any liking. During your stay, prepare to take a taste of Salt Lake City, where the dining scene has arrived and is ever-expanding. Start the night off right by indulging in whatever you crave. Even the most sophisticated of palates are sure to be impressed by the culinary offerings of Salt Lake City. Regional favorites can be sampled at any of the casual family restaurants around town.

For a more intimate experience, try fresh pastas and seafood at one of the many fine-dining eateries. Or, indulge in the exotic and explore delightful ethnic options, ranging from Afghan to Vietnamese cuisine. And, Salt Lake’s restaurants do serve alcohol with the purchase of food. Did you know that the Salt Lake City area is the fourth fastest growing restaurant market in the nation? With over 600 restaurants and eating establishments, Salt Lake City offers a vast selection, sure to fit any taste or budget. Thanks to the TRAX light-rail service, you can treat yourself to one of greater Salt Lake County’s 1,400 restaurants, nestled in the outlying areas.

So, whether you are looking for gourmet or buffet, family style or high profile, you’re guaranteed to find your appetite’s delight. Salt Lake City’s food with a view is the perfect excuse to arrive early or stay late at CHEST 2006, October 21-26.

For more information about Salt Lake City, visit www.visitsaltlake.com.

Questions about CHEST 2006? Visit www.chestnet.org/CHEST.

Product Highlight: ACCP-SEEK

The Assessment in Critical Care and Pulmonology Self-Education and Evaluation of Knowledge (ACCP-SEEK) is a self-study opportunity in printed format for pulmonary and critical care physicians and fellows-in-training. It is designed to stimulate and challenge clinical thought processes regarding recall, interpretation, and problem-solving skills.

The case-based questions contain histories, laboratory results, and images and provide education concerning current diagnostic and treatment strategies.

Each volume contains 75% new questions, answers, and rationales, in addition to selections from the previous volumes that are considered by the expert editors to be the best-written items. The rationales provide thorough explanations and reasoning for the correct and incorrect answers.

Each ACCP-SEEK volume has a total of 200 questions. ACCP-SEEK is used most commonly as an invaluable study tool for physicians interested in certifying and recertifying in pulmonary and critical care specialties.

Watch for the August 2006 release of the newest ACCP-SEEK Volume XVI—Critical Care Medicine. ACCP-SEEK can be purchased online at www.chestnet.org or by calling (800) 343-2227.
NetWorks: Partnering Inside and Outside the ACCP

Palliative and End-of-Life Care
The Palliative and End-of-Life Care (PEOLC) NetWork strives to fulfill its mission and objectives through a number of collaborative educational activities. The ACCP and the European Respiratory Society (ERS) are cosponsoring a symposium, “Improving End-of-Life Care” at the Annual Congress of ERS in Munich, Germany. Representatives from the PEOLC Steering Committee include symposium co-chair Dr. Gerald Baum, FCCP, and speakers Dr. Randall Curtis, FCCP, and Dr. Basil Varkey, FCCP. A large number of ACCP members practice palliative medicine as their primary area or are devoting a major portion of their time to clinical, educational, and research aspects of palliative care. Several members have been awarded the Roger C. Bone Advances in End-of-Life Care Award. Those interested in this area can contact the PEOLC NetWork at networks@chestnet.org. The PEOLC Steering Committee invites you to visit its Web page at www.chestnet.org/nnetworks/peolc/index.php.

Pediatric Chest Medicine
The Pediatric Chest Medicine NetWork currently has 416 members and encourages all ACCP members with pediatric interests to join. For more information about the NetWork, please contact Lee Ann Fulton, Staff Liaison, at networks@chestnet.org.

We look forward to an excellent pediatric program at CHEST 2006. Pediatric highlights will include pulmonary complications of gastroesophageal reflux disease and sickle cell disease. The Pediatric Chest Medicine NetWork Open Meeting, to be held on Wednesday, October 25, from 8:15 AM - 9:45 AM, will feature a talk by Dr. Greg J. Redding, FCCP, Chief, Pulmonary Division at Seattle Children’s Hospital, on the current state of the pediatric pulmonary workforce and fellowship training. The 8th Pediatric Fellows Conference will take place on Sunday, October 22.

Practice Administration
The Practice Administration NetWork encourages you to bring your practice administrators and managers to CHEST 2006. In 1997, five pulmonary practice administrators attended the annual CHEST meeting in New Orleans hoping that the ACCP would become the organization to provide resources and educational opportunities specific to the business of running a chest medicine practice. Recognizing this growing need, the ACCP committed to providing resources on national policy development, regulatory compliance, and reimbursement issues affecting management of specialty practices.

Today, there are 88 practice administrators who are allied health members of the ACCP. Their involvement and hard work has brought new expertise to our multiprofessional society.

At CHEST 2006, the practice management and administration curriculum includes two half-day postgraduate courses — “Physician Reimbursement Essentials: Basic Office and Hospital Documentation, Coding, and Compliance for Pulmonary, Critical Care, and Pediatric Pulmonary Patients,” and “New Procedural Coding and Novel Practice Management Issues.”

Private Practice
A major focus of the ACCP leadership is to enhance the value of membership. In recent years, the College has become an important resource in the area of practice management and serves to enhance the value of individual practices for physicians and their patients.

The ACCP Practice Management Department was created in 2004 with the goal to provide education, advocacy, and resources to members for efficient practice management for optimal patient care. Both the Private Practice and Practice Administration NetWorks help the Practice Management Department and the Practice Management Committee achieve these goals.

While the NetWork is specifically designed to represent and promote the interests of clinicians working in the private practice setting, the NetWork leadership recognizes many areas of shared interest among physicians in academic settings.

The NetWork also works closely with the Practice Management Committee and the Government Affairs Committee to address issues of coding and reimbursement, evaluation, and management guidelines, as well as workforce and manpower issues. It is the goal of the Private Practice NetWork to involve the ACCP private practice community in leadership and in advocacy at the local and national level.

Pulmonary Function, Physiology, and Rehabilitation
The Pulmonary Function, Physiology, and Rehabilitation (PPFR) NetWork is contributing to a number of ACCP projects and activities.

Several of the members of the PPFR NetWork Steering Committee are serving on the Health and Science Policy Committee panel to update the “Pulmonary Rehabilitation: Joint ACCP/American Association of Cardiovascular and Pulmonary Rehabilitation Evidence-Based Guidelines.” The previous review was published in 1997.

An updated guideline should add significantly to the current knowledge base in the field of pulmonary rehabilitation.

Progress is ongoing with the education training survey. The survey was developed to determine deficiencies and needs in pulmonary training programs. An update will be provided at CHEST 2006.

Members of the NetWork represented the ACCP on a joint committee made up of representatives from the multiple societies and organizations that recently met to discuss sending a proposal to the American Medical Association Current Procedural Terminology Editorial Panel for pulmonary rehabilitation services.

The committee came to agreement regarding the next step to improve the billing, coding, and reimbursement for pulmonary rehabilitation services under Medicare. The consensus of the group is being forwarded to each of the respective organizations for approval.

For Web pages for the 26 ACCP NetWorks, you can be viewed at www.chestnet.org/networks/descriptions.php. To keep members informed of current activities, the minutes of the steering committee conference calls are posted on the individual NetWork Web pages.

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PROFESSIONAL OPPORTUNITIES

Kentucky

Pulmonary Physician
Join a well-established and very reputable group of pulmonary physicians in Louisville, KY -Louisville Pulmonary Associates, PSC.

Join a pulmonary practice with 2 ABIM BE/BC pulmonary physicians that was established in 1983. We have office locations in Louisville and Southern Indiana both adjacent to major hospitals in the area. We provide service to patients at hospitals in Louisville and Southern Indiana. Applicant must be ABIM/BE/BC in internal medicine and pulmonary disease.

We offer: Guaranteed salary plus bonus, partnership track, full benefits package, shared call schedule.

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Contact: Send your CV to: Stacy Raiston, 4402 Churchman Avenue, Suite 305, Louisville, KY 40215 Fax: 502 368-9616 Email: sraliston3@hotmail.com

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THE CHEST FOUNDATION

CHEST PHYSICIAN • JULY 2006
‘Late Show’ Musician to Host CHEST Foundation Dinner

The CHEST Foundation’s Making a Difference Awards Dinner will be a celebration worth remembering. Join your colleagues and friends for this exciting celebration of The CHEST Foundation’s 10th anniversary and the 2006 Humanitarian Recognition Award and Project Development Grant ceremonies.

This year’s Making a Difference Awards Dinner will again be hosted by musician and TV personality, Paul Shaffer, of The Late Show with David Letterman. The dinner will be held on Saturday, October 21, 2006, 7:00 pm-10:30 pm, at the scenic Wells Fargo Building, 23rd Floor, in downtown Salt Lake City, Utah. Bus service to and from The Grand America Hotel will be provided.

There will be a special reception honoring all previous ACCP pro bono service award winners going back to the inception of the program in 1998. Current 2006 award and grant winners, including the special Hurricane Katrina and Rita Relief Fund project winners and the special Ambassadors Group Humanitarian Recognition Award winner, will be joined at this reception by past Governors Community Service Award and Humanitarian Recognition Award and Project Development Grant winners for an opportunity to share the current status of their projects and continued successes with one another and dinner attendees.

Seating is limited, so reserve your place early! Price per ticket is $150, and registration is available at www.chestfoundation.org. As a show of appreciation, CHEST Foundation annual donors at the $500 and $1,000 levels will be provided with one or two tickets, respectively. Please contact Teri Ruiz at truiz@chestnet.org, for more information.

This Month in CHEST: Editor’s Picks

BY DR. RICHARD S. IRWIN, FCCP
Editor in Chief, CHEST

- A Randomized Controlled Trial of Follow-Up of Patients Discharged From the Hospital Following Acute Asthma: Best Performed by Specialist Nurse or Doctor? Dr. James A. Nathan, et al
- Improvement in Bronchodilation Following Deep Inspiration After a Course of High-Dose Oral Prednisone in Asthma. Dr. Annelies M. Slats, et al
- Quantitative Analysis of Fibroblastic Foci in Usual Interstitial Pneumonia. Dr. Noriyuki Enomoto, et al
- Delayed Administration of Antibiotics and Atypical Presentation in Community-Acquired Pneumonia. Dr. Grant W. Waterer, FCCP, et al
- Antibiotic Timing and Diagnostic Uncertainty in Medicare Patients With Pneumonia: Is It Reasonable To Expect All Patients To Receive Antibiotics Within 4 Hours? Dr. Mark L. Meetersky, FCCP, et al
- The Controller-to-Total Asthma Medication Ratio Is Associated With Patient-Centered, as Well as Utilization, Outcomes. Dr. Michael Schatz, et al

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*Must register by July 25.
By Damian McNamara
Elsevier Global Medical News

NAPLES, FLA. — A myriad of online and other resources are available for keeping current with reimbursement, coding, documentation, and compliance, according to a presentation at the annual meeting of the National Association for Medical Direction of Respiratory Care.

Although this takes constant vigilance and more work, you will have higher reimbursement, lower costs, fewer appeals, fewer denials, and improvements in account receivables” if you stay up to date, said Sam Birnbaum, a certified medical practice executive and a practice management consultant in Hilton Head, S.C.

Information overload and limited time can cause some physicians to react solely to practice concerns rather than to fundamental management, Mr. Birnbaum said.

“You can lose money—that is really bad. You may be asked to return some payments from CMS,” he said. The Centers for Medicare and Medicaid Services (CMS) gets money returned in some cases after filing a claim against a medical practice under the False Claims Act.

“The worst thing of all that can happen is incarceration,” Mr. Birnbaum said. “I do know of one case, a dermatologist in Sarasota [Fla.], who, shall we say, is going away for a while.”

For respiratory care specialists, Mr. Birnbaum recommended the “Appropriate Coding for Critical Care Services and Pulmonary Medicine 2006,” published by the American College of Chest Physicians (ACCP). “I urge you to keep a copy of this book on your desk,” he said. Mr. Birnbaum has no financial relationship with any book or product he recommended at the meeting.

A more comprehensive source of coding information is Code Manager, published by the American Medical Association in print and CD-ROM formats.

“It’s my favorite,” Mr. Birnbaum said. “It’s pretty easy to use.” One CD-ROM contains all the CPT codes, the ICD-9M codes, the Healthcare Common Procedure Coding System codes from Medicare, Relative Value Units, and local fee calculations according to geographic location.

“IT will tell you all the things you need to do to satisfy the requirements for that CPT code, as well as the requirements of the carrier.”

Another recommended Web site is www.cms.hhs.gov/HealthCareConInit.官员 at the Centers for Medicare and Medicaid Services have also released information on outpatient and physician services. By fall, similar information for the state of Pennsylvania at www.hgsa.com. These sites feature a list of comprehensive error rate testing (CERT) contractors.

A meeting attendee asked Mr. Birnbaum if he recommended requesting a CERT consult from a contractor. “It sounds like a good idea, but I agree it could be hazardous,” he responded. “It’s easy to download the audit sheets and do self-audits. Just use a checkoff sheet, and you grade it yourself.” If you have more than one physician in your practice, have each one do the self-audit, he added.

Although each physician in a group is evaluated individually by CMS, Mr. Birnbaum said, “by reviewing each other’s billing . . . you get a much more appropriate billing pattern in the practice.”

Additional resources include specialty training sessions and publications, the ACCP, the Medical Group Management Association (www.mgma.org), the American Medical Association, state and local medical societies, and carrier Web sites.


Medicare Payments to Hospitals Are Now Posted

By Mary Ellen Schneider
Elsevier Global Medical News

Patients and physicians can now find out how much Medicare pays hospitals for certain common elective procedures and other admissions, and by fall, similar information on outpatient and physician services will be accessible.

The hospital information, which is posted on Medicare’s Web site, includes aggregated payment information by county for fiscal year 2005.

Officials at the Centers for Medicare and Medicaid Services have also released information on the volume of these procedures at each hospital.

“People need to know how much their health care costs,” Health and Human Services Secretary Mike Leavitt said during a press briefing. “They need to know the quality of the care they receive, and they need to have a reason to care.”

Mr. Leavitt said this information is the first step to greater transparency of health care cost and quality information. This summer, CMS officials plan to post Medicare payment information for common elective procedures performed at ambulatory surgery centers. And in the fall, the agency plans to post Medicare payment information for common hospital outpatient and physician services.

Ultimately, consumers will be able to use this type of information to make better decisions about their care, Mr. Leavitt said.

The information released last month includes the range of Medicare payments and the volume of services for 36 conditions with the highest utilization rates among all Diagnosis Related Groups, including implanting cardiac defibrillators, hip and knee replacements, and gallbladder operations.

Data also are available on conditions that were not in the top 30 DRGs but which are of interest to the Medicare community.

Hospital payment information is posted at www.cms.hhs.gov/HealthCareConCust.
Philadelphia — A costly electronic health record system is not necessary to engage in quality improvement and par-
ticipate in the growing number of pay-for-
performance programs, Dr. Rodney Hornbake said at the annual meeting of the American Medical Informatics Association.
Patient registries are one of the best tools for physicians participating in pay-
for-performance programs, Dr. Hornbake said. Many electronic health records (EHRs) and other health information technology (IT) systems were developed with funding from government programs or institutional endowments, and therefore cannot generate simple reports on the physician’s performance on certain measures. Most EHR vendors can build interfaces with patient registries, but that generally an added cost, he said.

There are a number of patient registry programs available, a comprehensive program can be purchased for less than $1,000 per provider, Dr. Hornbake said. Some are available for free. For example, Dr. Hornbake tested the Compendia Disease Management Database (COMORBID) software in his practice. This registry system is available for free from the Mississippi Quality Improvement Organization. And technology-savvy physicians can use programs like Microsoft Access to design their own registries, he said.

Dr. Hornbake tried out COMORBID in his practice to help keep up with the pay-for-performance programs in his local market. One insurer—Anthem Health Plans Inc. of Connecticut—has a program that offers incentives for practices and outcome measures based on a number of health-related information technology, including electronic prescribing, EHRs, and patient registries. The insurer also offers incentives for physicians to generic pre-
scribing, he said.

Dr. Hornbake said that he exported demographic information from his billing system into COMORBID and manually entered the clinical information from patient charts himself. After using the billing system to identify all of the patients who had conditions included in his registry, he hand-entered the data into COMORBID using red stickers on those patient charts. He flagged this the patients for special at-
tention from the staff, he said. For exam-
ple, patients whose charts had stickers received follow-up calls if they missed an appointment.

To keep the registry up to date, every 2 months the staff pulls the charts of all registry patients and Dr. Hornbake updates the system manually. He spends about 1.5 hours per day updating the registry.

Dr. Hornbake said that he prefers to en-
ter the diagnostic codes by hand be-
cause it helps him to identify any chronic disease patients who have slipped through the cracks.

“It’s really an excellent starting place for quality improvement in the ambulatory setting,” said Dr. Hornbake, an internist in private practice in Essex, Conn.

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