Initiative Improved Knowledge of COPD Care

BY SUSAN LONDON

FROM THE ANNUAL MEETING OF THE AMERICAN COLLEGE OF CHEST PHYSICIANS

VANCOUVER, B.C. - A live, interactive, case-based educational initiative improved primary care physicians' knowledge of chronic obstructive pulmonary disease, according to study results reported at the meeting.

In a cross-sectional study of 50 primary care physicians who participated in the initiative and 50 similar nonparticipants, the former were more likely to know

that alveolar destruction is a pathophysiologic feature of COPD (94% vs. 74%) and that women have greater susceptibility to the harmful effects of smoking (90% vs. 54%), according to Dr. Nicola A. Hanania and his coinvestigators.

Additionally, when presented with case vignettes, the participants were more likely to recog-

nize the presence of COPD in dyspnea patients (90%

"Even though this was sort of a one-time ... crosssectional survey, we believe that educational initiatives such as this one may at least improve the knowledge about COPD - both diagnosis and management," commented Dr. Hanania, an associate professor of medicine at Baylor College of Medicine, Houston.

Explaining the need for primary care-focused efforts, he noted that "the majority of COPD patients are [seen] in the primary care arena."

But statistics show that "COPD remains under-recognized and underdiagnosed in about 50% of the population out there, not only in the United States but in other countries as well. It also remains undertreated." even though the GOLD (Global Initiative for Chronic Obstructive Lung Disease) guidelines now stress that it is a treatable disease.

The initiative studied - called Improving COPD Patient Outcomes: Breaking Down the Barriers to Optimal Care - was designed to improve primary care providers' knowledge and competency in the guidelinebased diagnosis, staging, and management of COPD, Dr. Hanania said.

It consisted of a series of live half-day meetings conducted over a 3-month period that included short lectures, a video on correct use of inhaler devices, and small-group workshops that incorporated detailed case discussions and hands-on demonstrations and practice in the use of spirometry.

A total of 769 physicians attended the meetings. The investigators assessed the initiative's effectiveness with a case vignette-based survey, given to a randomly selected subset of 50 participants and 50 nonparticipants with similar demographics and practice characteristics.

The number of patients with COPD seen weekly was 11 for participants and 15 for nonparticipants. The

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DR. HANANIA

mean number of years in practice was 28 and 24, respectively. And both groups were about equally divided between family physicians and internal medicine physicians. Participants were somewhat more likely to be in solo practice (45% vs. 38%) or work in a government facility (25% vs. 0%), and less likely to be in group practice (31% vs. 58%).

Survey results showed that in the area of diagnosis, the participants were more likely than the nonparticipants to recognize COPD in case vignettes of patients with dyspnea (90% vs. 74%, P = .007) and to be aware of the greater susceptibility of women compared with men to the harmful effects of smoking (90% vs. 54%,

Also, when asked which of several pathophysiologic features was one of COPD, participants were more likely to correctly answer alveolar destruction (94% vs. 74%, P = .007). (The other options were muscular deconditioning, synovial inflammation, and increased ventricular filling pressure.)

While the groups did not differ significantly in terms of how likely they were to use spirometry for diagnosis and staging of COPD, participants were more likely than nonparticipants to indicate that difficulty in obtaining spirometry results in the office setting was a very significant barrier to COPD management (27% vs. 12%). "Maybe they acknowledged that it is an important tool, but they cannot do it," he commented.

The groups were statistically indistinguishable with respect to their approaches to caring for patients with repeated exacerbations and improving adherence, and their selection of appropriate maintenance therapy.

The survey also asked about barriers to managing

Major Finding: Participants were more likely than nonparticipants to know that alveolar destruction is a pathophysiologic feature of COPD (94% vs. 74%), to know that women are more susceptible than men to the harmful effects of smoking (90% vs. 54%), and to correctly identify COPD in patients with dyspnea (90% vs.

Data Source: A cross-sectional survey of 50 primary care physicians who participated in a COPD educational initiative and 50 similar primary care physicians who did not.

Disclosures: The initiative meetings were supported by an educational grant from Novartis Pharmaceuticals. Dr. Hanania did not have any conflicts of interest related to the study.

COPD, according to Dr. Hanania.

In addition to difficulty with spirometry, the groups were similarly likely to rate as very significant a patient's nonadherence to a recommendation to stop smoking, the complexity of the medical regimen, and a lack of clarity about the staging of COPD severity.

A calculation of the initiative's quality of education index showed that participants were 50% more likely than nonparticipants to provide evidence-based, guideline-driven COPD care, Dr. Hanania reported. "We estimate that participation in this half-day program can potentially improve the care of many patients per week, but this needs to be further tested," he commented.

We did not attempt to look at long-term [outcomes] - retention of knowledge or practice change which are very important," Dr. Hanania acknowledged. But a similar, ongoing initiative, being conducted by the ACCP, is currently assessing impact on real-life

That initiative is including not only physicians but also physician assistants and nurse practitioners, Dr. Hanania said. "In our primary care setting in the U.S., nonphysician extenders - PAs, nurse practitioners - play a major role in encountering COPD, and those are people we like to target." Furthermore, their role will likely increase if health care reform proceeds and primary care physicians are overwhelmed by demand.

The initiative meetings were supported by an educational grant from Novartis Pharmaceuticals. Dr. Hanania had no relevant conflicts of interest.

Healthy People 2020 Adds Sleep Health, COPD to Goals

BY SHARON WORCESTER

≺he Department of Health and Human Services launched its Healthy People 2020 goals on Dec. 2, and among the objectives set forth in its "ambitious, yet achievable" 10-year agenda for improving the nation's health are substantial improvements in sleep health, respiratory disease outcomes, and levels of tobacco use.

Sleep Health

Sleep health is a new topic in the Healthy People initiative. The main focus is on increasing public knowledge of how adequate sleep and treatment of sleep disorders lead to improvements in health. productivity, wellness, quality of life, and safety on the roads and in the work-

"Poor sleep health is a common problem, with 25% of U.S. adults reporting insufficient sleep or rest at least 5 out of hours for those aged 18-21 years, and 7 every 30 days," the report states.

The public health burden is substantial, and awareness of the problem is lacking; thus, Healthy People 2020 seeks to provide a "well-coordinated strategy to improve sleep-related health.

Objectives are to:

► Increase the proportion of persons with symptoms of obstructive sleep apnea who seek medical care (from 25.5% to 28%).

- ► Reduce the rate of vehicular crashes per 100 million miles traveled that are due to drowsy driving (from 2.7 to 2.1).
- ▶ Increase the proportion of students in grades 9-12 who get sufficient sleep, defined as 8 hours or more on an average school night (from 30.9% to 33.2%).
- ▶ Increase the proportion of adults who get sufficient sleep, defined as 8 or more

or more hours for those aged 22 years and older (from 69.6% to 70.9%).

Respiratory Disease

The respiratory disease category focuses on asthma and chronic obstructive pulmonary disease, and the main goal

Healthy People 2020 is to "promote respiratory health through better prevention, detection, treatment, and educa-

tion efforts," according to the report, which states that asthma affects 23 million people in the United States and COPD affects 13.6 million U.S. adults.

The cost to the health care system is high, and society pays through higher health insurance rates and lost productivity and tax dollars. Annual expenditures for asthma alone are estimated at nearly \$21 billion.

Healthy People 2020 seeks to reduce asthma-related deaths, hospitalizations, emergency department visits, activity limitations, and missed school or work days, and to increase the proportion of asthma sufferers who receive appropriate care. Improved surveillance at the state level is another goal.

For example, goals for 2020 in regard to asthma-related deaths include reductions from 11.0 to 6.0 deaths per 1 million people aged 35-64 years, and from 43.3 to 22.9 per 1 million people aged 65 and older. Goals regarding annual asthma-related hospitalization include a reduction from 41.4 to 18.1 per 10,000 children under age 5, from 11.1 to 8.6 per 10,000 people aged 5-64 years, and from 25.3 to 20.3 per 10,000 adults aged 65 years and older.

Goals regarding appropriate asthma care include specific improvements in the Continued on following page