Watchful waiting safe strategy for uncomplicated pneumothor

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By Gene Emery

NEW YORK (Reuters Health) - In a trial that offers new evidence for doing less when patients have a coll watchful waiting is no less effective for uncomplicated cases of primary spontaneous pneumothorax that air from the chest cavity, at least in patients through age 50.

In the randomized non-inferiority study, including 316 patients, 98.5% in the intervention group had a full weeks versus 94.4% where an intervention was not done (P=0.02 for non-inferiority).

When patients with incomplete data were classified as a treatment failure, the full reexpansion rates we 82.5% without, which the researchers characterized as "modest, but statistically fragile evidence" that co not inferior.

However, patients in the conservative-management group were less likely to suffer a serious adverse even pneumothorax recurrence was 16.8% with intervention and 8.8% in the conservative-management group.

"On the basis of this randomized trial and the earlier reports, we should now be prepared to offer this cor young, healthy person with a large primary spontaneous pneumothorax if there is no hemodynamic cor provisos: the patient is informed and agrees to the approach, is readily available for outpatient follow-up scuba diving," writes Dr. Courtney Broaddus of the University of California, San Francisco, in an editorial Medicine, where the study appears.

"This is simple bedside research that answers an important question," chief author Dr. Simon Geoffrey A Hospital in Australia told Reuters Health by phone.

Pneumothorax care has been trending in this direction for decades, said Dr. Rade Vukmir, a spokesman: Emergency Physicians, who was not involved in the research.

The so-called PSP study, combined with earlier research that offered similar findings, shows "this is a variation families and providers who want to take a conservative approach," he told Reuters Health by phone.

About one in 7,000 adults and adolescents will develop spontaneous pneumothorax each year, and in a t obvious cause or history. Treating with a chest tube or surgery carries risk.

The study was undertaken because one member of the research team was treating his pneumothorax capproach. His colleagues disagreed.

The result is what's being billed as the first randomized study to compare the techniques, done at 39 Aus healthcare settings.

All the volunteers had a collapse of 32% or more. "The majority of patients had a complete collapse," said of Aeromedical and Retrieval Medicine, Ambulance Tasmania.

Half were drained without suction and a chest X-ray was taken an hour later. If the lung had re-expande longer bubbled, the drain was closed.

The patient was sent home four hours later if another X-ray showed pneumothorax had not recurred an Otherwise they were admitted.

The remaining patients were observed for at least four hours, at which point another chest X-ray was ta

"You're watching very carefully for any changes," Dr. Brown said.

If the patients could walk comfortably, did not need supplementary oxygen, and showed no warning sig instructions and analgesia.

All were assessed within 72 hours, at two, four and eight weeks, and at six and 12 months.

Based on X-ray results, patients in the intervention group got better faster, with a median of 16 days to radays with conservative management. But there was no significant difference in time to symptom resolu intervention group and 14.0 days in the conservative-management group.

And not only were recurrences nearly twice as common in the intervention group, median time to recur days in the intervention group and 234 days in the group treated conservatively, said Dr. Brown.

Dr. Broaddus, in her editorial, observes, "One possible explanation (for the fewer recurrences) is that ches healing by pulling open the defect in the lung, whereas allowing the lung to reexpand slowly on its own

There were 49 adverse events in 41 patients (27%) in the intervention group versus 16 events among 13 parallel waiting group, a significant difference.

The serious adverse events were usually related to the chest tube. In the intervention group, the odds of 1 times higher.

The mean length of hospital stay was almost five days longer with intervention, and the number of days longer. Patients reported less satisfaction with the interventional approach than the conservative approach

"Conservative management spared 85% of the patients from an invasive intervention and resulted in few likelihood of prolonged chest-tube drainage, less need for surgery, and fewer adverse events and serious interventional management. The percentage of patients with early pneumothorax recurrence was also I management group," the researchers write.

The study was done in younger patients because there was less likely to be underlying disease that wou findings may apply to older patients whose collapse is idiopathic, said Dr. Brown.

Dr. Brown said he suspects his colleagues will embrace the new findings because they're more than hap new findings give them a justification to take the watchful-waiting approach.

Dr. Vukmir, who is also a professor of clinical emergency medicine at Drexel University, in Philadelphia, it's a doctor who deals with this problem day to day . . . they already have this comfort level."

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