

According to GOLD classification [3] the patient was categorized with severe chronic obstructive pulmonary disease (COPD). COPD is the most common cause of secondary pneumothorax. Cough is a common symptom in the course of COPD. The increase in intrathoracic pressure during cough can cause or augment pneumothorax. [1]

On the other hand, these patients have generally bleb or bulla due to airway obstruction. In contrast to these negative effects, our patient showed a well improvement without a therapy. This finding may be due to "higher" permeability of the pleural surfaces. In our knowledge, this is the first case in which secondary total pneumothorax showed a spontaneous remission.

References

1. Baumann MH. Management of spontaneous pneumothorax. Clin Chest Med. 2006 Jun;27(2):369-81.
2. O'Rourke JP, Yee ES. Civilian spontaneous pneumothorax: Treatment options and long-term results. Chest 1989; 96: 1302-6.
3. The Global Initiative for Chronic Obstructive Lung Disease (GOLD) Executive Summary: Global Strategy for Diagnosis, Management, and Prevention of COPD, Updated 2009.