CASE REPORT

IT LEAKS,BUT I’M INNOCENT : UNKNOWN CAUSE OF PRIMARY SPONTANEOUS PNEUMOTHORAX (PSP)

**Introduction**

Spontaneous pneumothorax occurs when there is air collection in pleural space. Primary spontaneous pneumothorax is when the caused is mostly idiopathic. It occurs in patient with no underlying lungs disease and not by trauma.

**Case description**

A 28 years old gentleman with no known underlying medical illness and non smoker presented with sudden onset of shortness of breath with right pleuritic chest pain for past 2 days. Symptoms occurred while at rest and there was no history of recent trauma. He also has no symptoms of upper respiratory tract infection and was previously well.

On examination, he was mildly tachypneic with RR 24, able to talk in full sentences and vital signs was stable with SPO2 maintained above 95% under room air. On auscultation, there was reduced breath sound on right side with hyperresonance on percussion. CXR shows right sided pneumothorax. He was put on oxygen and chest tube was inserted. CT Thorax done shown no bullae or significant abnormalities.

He was admitted to medical ward and subsequently discharge well.

**Discussion**

There are few classification of pneumothorax. Spontaneous pneumothorax can be classified by primary or secondary caused. Secondary pneumothorax usually happens in the presence of existing lung pathology such as tuberculosis. While primary pneumothorax occurs without any apparent caused and predominantly occurs in young, tall and thin males. The management of PSP is still the same as other pneumothorax which is chest tube drainage and treat the underlying pathology. CT Thorax should be done to look for the mechanism that leads to leakage in pleural space.

**Conclusion**

Most PSP is caused by spontaneous ruptured of bullae. However in some patient like in this case, no bullae or abnormality detected in CT scan.

Regardless, oxygen supplement and chest tube drainage are still the 1st line treatment in pneumothorax patient.

**Keywords**

Primary, pneumothorax, idiopathic