中文題目:肋膜積水導致橫膈下陷經抽吸術後肺功能改善程度

- 英文題目: Changes in pulmonary mechanics and gas exchange following thoracentesis on inversion of a hemidiaphragm
- 作 者:王正信1

服務單位:安泰醫院內科1

**Background:** The present study was designed to test whether there was a significant improvement in pulmonary function and arterial blood oxygenation after therapeutic thoracentesis on patients with inversion of a hemidiaphragm due to pleural effusion. **Materials and Methods:** In 21 patients with inversion of a hemidiaphragm because of a pleural effusion, we studied the changes in pulmonary mechanics and gas exchange that occurred in 24 h after removal of 600 to 2,700 mL of fluid by thoracentesis.

**<u>Results</u>:** There was a small but significant increase in the forced expiratory volume in 1 s (FEVI) and forced vital capacity (FVC) (p<0.001). The alveolar-arterial oxygen gradient (P [A-a] 02) and partial pressure of arterial oxygen (PaO2) showed a significant increase (p<0.001), but there was no change in partial pressure of arterial carbon dioxide (PaCO2).

**Conclusions:** In the present study, all patients with a large pleural effusion had inversion of a hemidiaphragm documented by chest sonography, and that was an important factor to observe significant improvement in pulmonary mechanics and gas exchange.