

[Direct instillation of the fibrin glue into the ruptured bulla is an effective treatment for uncontrolled pneumothorax occurred from severe emphysematous bullae]. [Japanese]

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Abstract:

From May 2005 to October 2010. 9 patients with severe emphysematous bullae suffered from uncontrolled pneumothorax had been successfully treated by a new surgical method in our hospital. By using direct instillation of fibrin glue into the ruptured bulla following ligation of the ruptured bulla hole, 8 of 9 patients revealed no recurrence of new rupture and pneumothorax. Although the ligation of ruptured bulla hole tended to increase tension of surface of the bulla around the ligation and caused new rupture of the bulla, the fully instilled glue reduced intra air pressure of the ligated bulla and prevented new rupture. Additionally, the direct instillation of the glue immediately stopped the air leakage by itself. This direct instillation method of the glue encouraged us to challenge the surgery for the patients suffered from uncontrolled pneumothorax with severe emphysematous bullae.