

# **Fibrin Glue-Minocycline Combination as a Sustained Release for the Prevention of Postoperative Alveolar Air Leak in Thoracoscopic Lung Resections.**

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Publication Date: 2016

## **Abstract:**

Although the ultrasonic scalpel is known to avoid inadvertent thermal injury to pulmonary parenchyma owing to its lower tip temperature, there are reports suggesting late onset postoperative alveolar air leakage by using it. Herein, a novel method of preventing postoperative air leakage was developed by using a sustained release system of fibrin glue-minocycline combination. This method ensures that the effect of fibrin glue is followed by the effect of minocycline, which functions as a sustained release formulation. This study demonstrates a simple and effective method of preventing postoperative air leakage, without any increase in the rate of adverse events.

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