

AB008. Single port subsegmentectomy: experience of single institution

Chao-Chun Chang, Ying-Yuan Chen, Wei-Li Huang, Yi-Ting Yen, Tzu-Hung Lin, Yau-Lin Tseng

Division of Thoracic Surgery, Department of Surgery, National Cheng Kung University Hospital, Tainan, Taiwan

Background: For benign lesion and early stage lung cancer, the current trend is precise resection with more preservation of pulmonary function. In this study, we reviewed the perioperative date and outcome of single port subsegmentectomy in our hospital.

Methods: The patients who received single port subsegmentectomy from 2015/05 to 2017/09 were all included. Patients' characteristics (age, gender), perioperative data (operative time, blood loss, intraoperative complication), and outcomes (recovery period, postoperative complication, mortality, disease free survival and overall survival of primary lung cancer) were all collected.

Results: There were 38 patients receiving single port subsegmentectomy in our hospital. The mean age was 63.1 years old, mean operative time was 172.2 minutes, mean blood loss was 39.5 cc, and the mean duration of chest tube placement was 2.8 days. There was no intraoperative complication or conversion. One patient had prolonged air leak (n=1, 2.6%), and another patient had bronchopleural fistula (n=1, 2.6%) who received completion lobectomy later. No recurrence or mortality developed in the 22 patients with primary lung cancer.

Conclusions: Single port subsegmentectomy is safe and provide precise resection for the small lung lesion. Preoperative 3D CT reconstruction helps to establish detailed surgical plan and improve surgical safety.

Keywords: Single-incision; single-port; segmentectomy; subsegmentectomy

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