

AB007. Needlescopic-assisted uniportal thoracoscopic pulmonary anatomical resection

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Background: Pulmonary anatomical resection can be standard treatment for small non-small cell lung cancer. Uniportal video-assisted thoracoscopic surgery (VATS) has recently showed favorable surgical outcomes, but remains technical demanding, especially in a complex procedure like anatomic segmentectomy. This manuscript demonstrates the surgical techniques for uniportal VATS pulmonary anatomical resection with the assistance of additional needlescopic instruments.

Methods: Data of 35 consecutive patients who underwent 37 needlescopic-assisted uniportal VATS pulmonary

anatomical resection between December 2016 and July 2017 was analyzed.

Results: There were 9 lobectomies, and 28 segmentectomies. The mean operation time was 178.3 minutes. The mean duration of chest tube drainage was 5.2 days, and the mean duration of hospital stay was 7.4 days. There were two episodes of major bleeding and one case that required conversion to lobectomy.

Conclusions: Under the assistance of additional needlescopic instruments, pulmonary anatomical resection can be performed more easily and safely with uniportal VATS.

Keywords: Needlescope; uniportal video-assisted thoracoscopic surgery (uniportal VATS); anatomical resection

doi: 10.21037/jtd.2017.s007

Cite this abstract as: Ko HJ, Yang SM. Needlescopic-assisted uniportal thoracoscopic pulmonary anatomical resection. *J Thorac Dis* 2017;9(Suppl 14):AB007. doi: 10.21037/jtd.2017.s007