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ORIGINAL ARTICLE – THORACIC ONCOLOGY

Uniportal Single-Direction Thoracoscopic Right S9 Segmentectomy: Trans-Inferior-Pulmonary-Ligament Approach

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ABSTRACT

Background. We previously described a three-port single-direction thoracoscopic segmentectomy for the right S9, which is the most challenging anatomic segmentectomy. However, uniportal thoracoscopic surgery has been widely accepted for the therapy of early stage non-small cell lung cancer in the past decade.

Methods. In this multimedia article, we describe a uniportal thoracoscopic right S9 segmentectomy through an inferior pulmonary ligament approach following a single-direction strategy and using the stem-branch method for segmental structure tracking.

Results. The operation went successfully and the patient recovered smoothly.

Conclusions. By taking advantage of the stem-branch method, trans-inferior-pulmonary-ligament approach, and single-direction strategy, the uniportal thoracoscopic S9 segmentectomy can be performed successfully through optimization of some technical details.

Yunke Zhu and Liang Xia have contributed equally to this work.

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