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surgeon in National Cancer Center, Korea. His majors are minimally invasive surgery including VATS and Robotic surgery as well as major thoracic surgery for lung cancer and esophageal cancer. Dr. Lee has begun robotic surgery since 2009 and performed about 170 cases of robotic surgeries. He is currently performing the advanced education program of robotic surgery for lung cancer.

Robot-Assisted Pulmonary Resection for Lung Cancer

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Minimally invasive surgery (MIS) for early stage lung cancer has been an important treatment modality. However, the ergonomic discomfort and counterintuitive instruments hindered the application of VATS to more advanced procedures. To improve the compliance with MIS, robotic surgery was adopted. This advance aimed to alleviate the shortcomings of VATS by maximizing the comfort of the surgeon while providing instruments that enabled technically demanding operations and three-dimensional views with increased freedom for intrathoracic movement owing to *EndoWrist*[®]. In this session, I will introduce the clinical applications and its results of robot-assisted thoracic surgery in the field of lung cancer surgery.

Robot-assisted lobectomy

Robot-assisted pulmonary segmentectomy

Figure 1. Port placement and patient position during robot-assisted pulmonary resection using THREE ARMS versus FOUR ARMS.

