Virtual Assisted Lung Mapping (VAL-MAP)

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Disclosure

- I have nothing to disclose
What is VAL-MAP?

Geometric Information on the lung
Virtual Assisted Lung Mapping (VAL-MAP)

Use virtual bronchoscopy, virtual 3D images

Bronchoscopic injection of indigo carmine (blue dye)
Wedge resection

tumor (7 mm GGO)
VAL-MAP Technique
Conventional marking vs. Lung “mapping”

Marking

Hookwire
Resection line

Mapping
Wedge resection

Segmentectomy
VATS Rt S2b, S7a+8 double complex segmentectomies

Specimen extraction x 2  2 hr 15 min
Total operation time  3 hr 3 min
Minimal bleeding
Chest tube removal at POD 2
Ongoing Clinical Study
Multi-Institutional Lung Mapping (MIL-MAP) Study in Japan

- More than 300 cases safely done
- Excellent reproducibility
- Feasible in many institutions with variable settings
Future direction of VAL-MAP

◆ Make it even simpler!
