

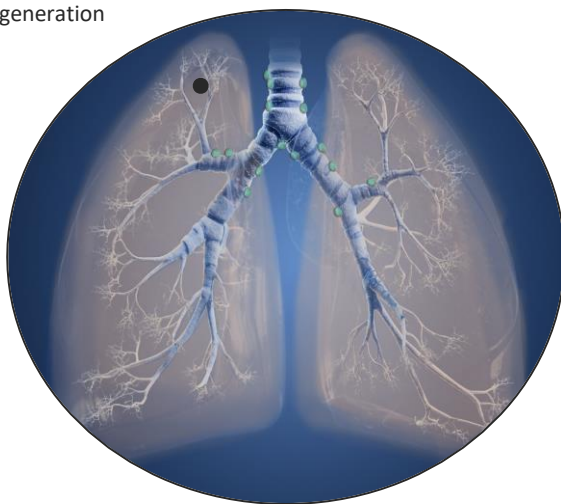
## Peripheral Lung Cancer Diagnosis with New Generation Convex-Probe Endobronchial Ultrasound Bronchoscope: A Case Report

Pardessus A, Chalela R, Sánchez-Font A. Arch Bronconeumol. Published online October 11, 2025.

The peripheral EBUS bronchoscope enabled access to the fifth bronchial generation in the right upper lobe apical sub-segment, where a hypoechoic lesion with hyperechoic margins was sampled using a ViziShot™ 2 25G needle (three passes).

### Description of Lesion

Location:	Right upper lobe (RUL)
Generation:	5 <sup>th</sup> bronchial generation
Size:	31 mm
Bronchus Sign:	Yes
PET:	Increased metabolic activity



Illustration; Please refer to publication for original images

### Objective

To describe the use of a peripheral EBUS-TBNA bronchoscope (Olympus BF-UCP190F; 5.9 mm outer diameter; 170° upward angulation) in a patient with a spiculated mass in the right upper lobe (RUL).

### Results

- 64-year-old male, heavy smoker (70 pack-years), HIV on antiretroviral therapy and hepatitis C-related cirrhosis grade 2.
- CT identified a 31 mm spiculated mass in RUL with bronchus sign, focal scarring, calcifications; no significant lymphadenopathy. PET scan confirmed increased metabolic activity.
- Initial bronchoscopy with r-EBUS located the lesion; cultures and brush cytology were negative for malignant cells.
- After the second bronchoscopy using Olympus BF-UCP190F, EBUS-TBNA cytology revealed atypical epithelial cells consistent with non-small cell lung carcinoma.
- Final diagnosis was a T2aN0M0 lung cancer and patient was scheduled for surgical resection.

### Conclusion

This case demonstrates the advanced capability of the peripheral EBUS bronchoscope to reach and sample deeply located pulmonary nodules using real-time ultrasound guidance and precise needle aspiration, marking a step forward in bronchoscopic technology.

Olympus BF-UCP190F (5.9 mm outer diameter; 170° upward angulation)  
ViziShot™ 25G Needle (NA-U401SX-4025N)  
Olympus Radial EBUS Probe (UM-S20-17S)

[Link to Publication](#)