

# PETIMAGING

## INTEGRATED PET/CT SCANNING CASE STUDY N<sup>o</sup> 99

### SPN Post Bronchoscopy

A 74 year old female patient with a history of COPD presents to her pulmonologist with complaints of shortness of breath and pain and tightness in her chest. A recent chest x-ray shows a prominence in the left hilum. Bronchoscopy is unremarkable with negative cytology. A chest CT performed 4 days after the bronchoscopy reveals a 1.8 x 1.5 cm spiculated noncalcified lesion in the lateral aspect of the left upper lobe. Despite the negative cytology, the pulmonologist remains concerned about the pulmonary nodule as the patient is a smoker, and her brother and sister both died of lung cancer. A PET/CT scan ordered for characterization of the SPN reveals significant uptake in the 2 cm nodule with an SUV of 14.9. Fortunately for the patient, the PET/CT does not reveal any additional site of regional or distant metastatic disease, and she is found to be a surgical candidate.

