

Patient Case "Joan"*: Abnormal Finding on LDCT in high-risk patient



Initial presentation



LDCT



CyPath® Lung

PATIENT BACKGROUND

- 72 yo WF with COPD, OSA with chronic respiratory failure on O2
- 50 PYHx smoker; quit 2021, using vape pen
- Presented with 14mm LUL cavitating nodule 3/2023
- 50-pound weight loss x 2 years

IMAGING

- PET scan 3/23/23 with LUL avidity SUV of 12.0
- CT scan 10/4/23 s/p LUL wedge rection for clinical stage 1A NSCCa
- CT scan 4/15/24 with subtle changes to LUL post-op resection site

NEXT STEPS w/o CYPATH LUNG

- Pt with wedge resection for stage 1A NSCCa requires close follow-up
- Serum marker contra-indicated x 5 years with cancer dx
- Subtle post-op changes common and represent diagnostic dilemma

NEXT STEPS with CYPATH LUNG

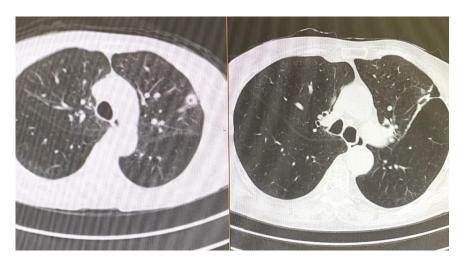
- CyPath® Lung reported 5/21/24, 0.83
- Because this represents a real-time possible recurrence, follow-up PET ordered 7/19/2024

^{*}The patient described in this case study is a real individual; however, the name has been changed to protect his/her privacy.

Patient Case Joan: Images from Initial LDCT

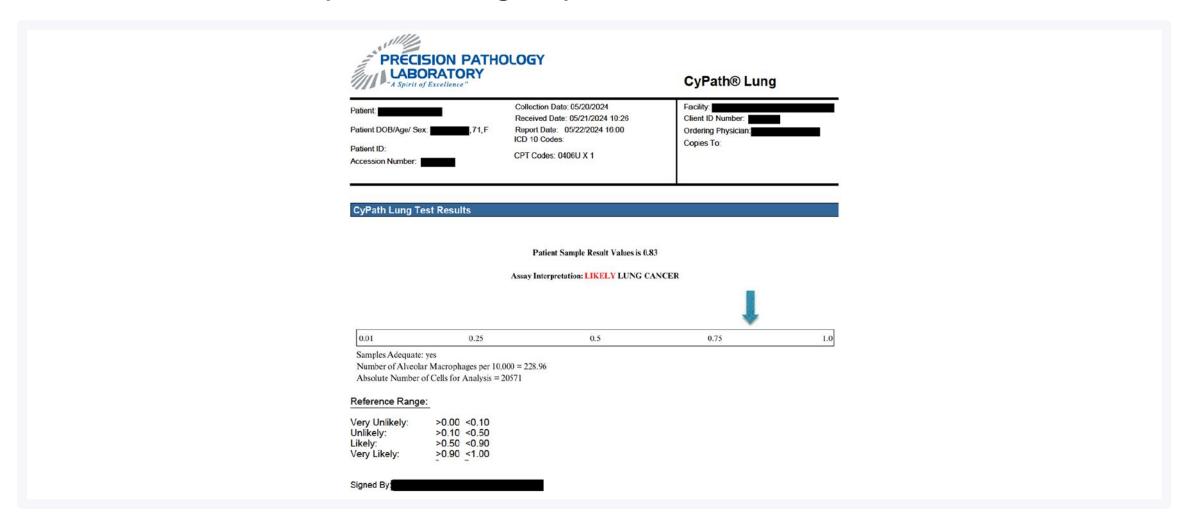


14 mm cavitating nodule, SUV 12



Pre- and post-op wedge resection, post-op increased nodularity from 10/4/23 to 4/14/24

Patient Case Joan: CyPath® Lung Report



Patient Case Joan: Follow-Up PET 7/19/24

CyPath® Lung of 0.82 leads to this PET

Post-op scar without avidity but right hilum and mediastinum grossly positive

Unusual presentation for metastatic NSCCa from LUL lesion



Patient Case Joan: Abnormal Finding on LDCT (continued)



PATIENT BACKGROUND

- Wedge resection LUL for 14 mm stage 1A NSCCa
- CyPath® Lung positive sputum 5/21/24 and positive PET 7/24 in lung and liver
- Follow-up liver biopsy dx metastatic small cell cancer, second primary lung cancer

IMAGING

- Serial CT scans post wedge resection on 10/23, 4/24
- PET scan 7/19/24

NEXT STEPS with CYPATH LUNG

- CyPath® Lung positive result led to PET scan with right lung right mediastinal and liver uptake
- Liver biopsy confirms new small cell lung cancer as second primary
- Original LUL was a stage 1A resected cancer

OUTCOME

Pt is currently being treated for advanced stage small cell carcinoma of the lung