

Pathology Report

Institution: Mock Pathology Labs

Patient Name: John Doe

Patient ID: 123456789

Age: 56

Gender: Male

Referring Physician: Dr. Smith

Collection Date: 2024-11-30

Report Date: 2024-12-01

Clinical History:

The patient presents with a persistent cough and unintentional weight loss over the past three months.

The patient has a significant smoking history of 1 pack per day for 20 years. Chest X-ray and CT scan revealed a 2.5 cm lesion in the upper lobe of the right lung.

Specimen Information:

Specimen Type: Lung tissue biopsy

Collection Site: Upper lobe of the right lung

Method: CT-guided needle biopsy

Macroscopic Description:

The specimen consists of three irregular, tan-white tissue fragments measuring 0.4 cm, 0.5 cm, and 0.6 cm in greatest dimension.

The tissue appears firm and slightly friable.

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Microscopic Description:

Microscopic examination reveals nests and cords of atypical epithelial cells with hyperchromatic nuclei, prominent nucleoli, and a moderate amount of cytoplasm. The tumor cells are infiltrating the surrounding stroma with evidence of desmoplasia.

Immunohistochemical staining shows positive expression for TTF-1 and Napsin A, confirming adenocarcinoma of lung origin.

Diagnosis:

Non-Small Cell Lung Carcinoma (Adenocarcinoma), Primary Site: Right Lung

Comments/Recommendations:

The findings are consistent with primary lung adenocarcinoma. Further molecular testing for EGFR mutations and ALK rearrangements is recommended to guide targeted therapy. The patient should be referred to an oncologist for staging and management.

Pathologist:

Dr. Jane Doe, MD

Board-Certified Pathologist