



(CASE REPORT)



PULMONARY SCLEROSING PNEUMOCYTOMA WITH ATYPICAL IMAGING FEATURES: A CASE REPORT

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ABSTRACT

This educational case report designed to illustrate the imaging approach to pulmonary sclerosing pneumocytoma with atypical imaging features. The synthetic radiological figure demonstrates representative appearances rather than actual patient imaging. Imaging findings, differential diagnosis and limitations are discussed to support structured radiological interpretation.

Keywords: Sclerosing pneumocytoma; Pulmonary nodule; CT; PET-CT.

1 INTRODUCTION

Pulmonary sclerosing pneumocytoma with atypical imaging features presents diagnostic challenges because imaging findings may overlap with more common conditions. Cross-sectional imaging is important for identifying lesion origin, defining anatomical relationships and guiding subsequent evaluation.

2 CASE REPORT

A 26-year-old woman underwent chest imaging after an incidental pulmonary opacity was detected. CT demonstrated a well-defined solid nodule in the left lower lobe. The lesion enhanced after intravenous contrast administration. In the simulated diagnostic workup, the patient underwent additional metabolic imaging because the nodule could not be characterized definitively by morphology alone.

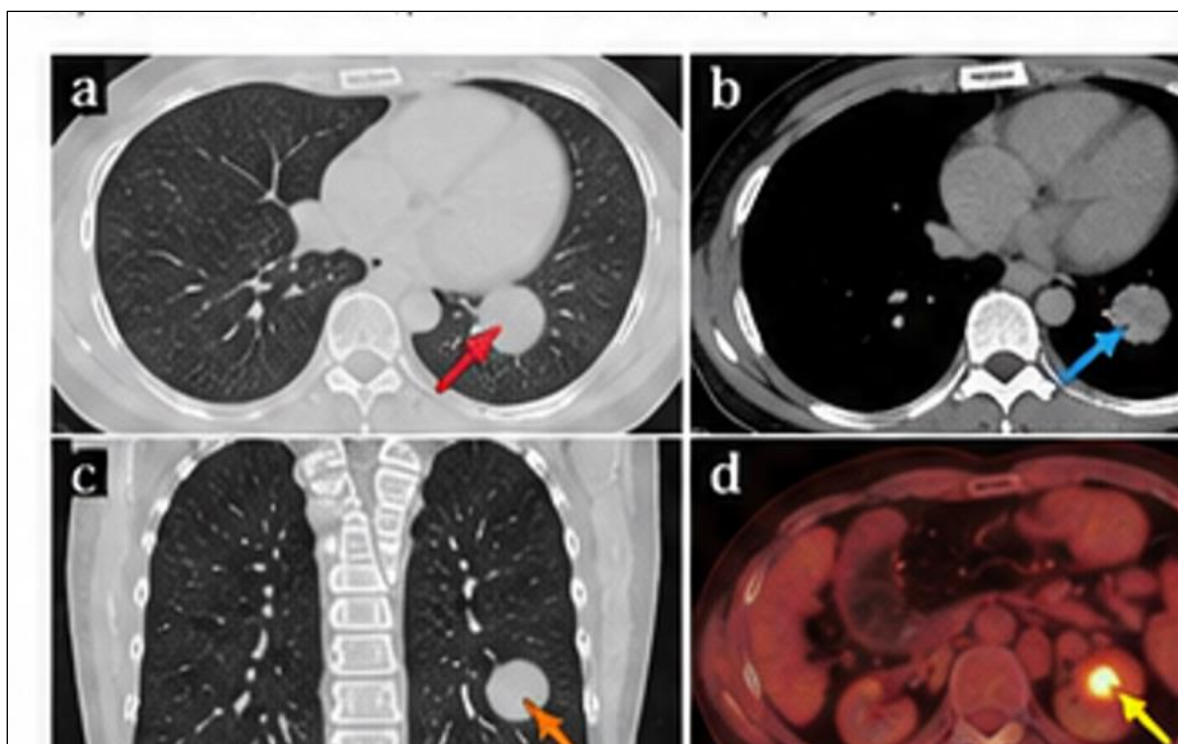


Figure 1: (a) Axial lung-window CT showing a left lower-lobe nodule (red arrow); (b) axial soft-tissue CT (blue arrow); (c) coronal lung-window reconstruction (orange arrow); (d) PET-CT panel (yellow arrow).

3 DISCUSSION

Pulmonary sclerosing pneumocytoma is a rare, predominantly benign pulmonary neoplasm that often presents as a well-circumscribed solitary pulmonary nodule. Although computed tomography plays an essential role in lesion detection and characterization, its imaging features may overlap with those of other pulmonary tumors, particularly carcinoid tumors. Histopathological examination, supported by immunohistochemical analysis, remains essential for definitive diagnosis. Complete surgical resection is generally associated with an excellent prognosis, with recurrence and metastatic spread being exceptionally rare.

4 CONCLUSION

Pulmonary sclerosing pneumocytoma is a rare, predominantly benign pulmonary tumor with nonspecific imaging features. CT plays a key role in its detection and characterization, although differentiation from other pulmonary neoplasms remains challenging. Definitive diagnosis relies on histopathological and immunohistochemical examination. Complete surgical resection is generally curative and associated with an excellent long-term prognosis.

STATEMENTS ON COMPLIANCE WITH ETHICAL STANDARDS

Disclosure of conflict of interest

The author(s) declared no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

Statement of informed consent

Written informed consent was obtained from a legally authorized representative(s) for anonymized patient information to be published in this article.

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