

# SPINDLE CELL SARCOMA OF THE RIGHT LUNG": A CASE REPORT

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September 15, 2025

## ABSTRACT

### Introduction

Primary pulmonary spindle cell sarcoma is an extremely rare and aggressive neoplasm that primarily affects middle -aged and younger people with poor prognosis. Establishing this diagnosis requires the exclusion of a wide number of other neoplasms with multimodal techniques, including clinical assessment, diagnostic imaging, histopathological, and immunohistochemical procedures.

### Methods

We present a unique case of spindle cell sarcoma of the right lung in a 42-year-old man, diagnosed immunohistochemically before performing a right lower bilobectomy. Imaging, diagnostic workup, histological and immunohistochemical characteristics, including surgical treatment, are discussed

### Results

The sequential methods of treatment for this unique case provided insight for an accurate diagnosis and prompt surgical management leading to optimal patient outcome.

### Conclusion

Primary spindle cell sarcoma is a sporadic intrathoracic tumor often seen in young to middle-aged adults. When a primary tumor occurs in the chest, it usually presents as a

large intrathoracic mass without involving any bone or mediastinum. Histologic analysis and immunostaining of a tumor biopsy can help establish a definitive diagnosis for further management. Treatment is based on a multimodal approach including surgical resection, chemotherapy, and radiotherapy.