Pulmonary alveolar microlithiasis
An incidental finding in a patient with COPD

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A 67-year-old male with a history of chronic obstructive pulmonary disease and heavy smoking consulted due to progressive worsening of his dyspnea over the previous week along with a dry cough and unquantified fever at home. A chest x-ray showed bilateral calcified micronodules. A high-resolution computerized tomography confirmed these findings. The diagnosis was confirmed by the histological results of a bronchoalveolar lavage showing characteristic laminar microliths.

Pulmonary alveolar microlithiasis is a rare hereditary pulmonary disease characterized by microcalcifications within the alveolar spaces (1). It is caused by mutations of the SCL34A2 gene which encodes the phosphate cotransporter in type II alveolar cells. This results in increased phosphate and calcium in lung surfactant, which leads to the formation and deposition of microliths within the alveoli as well as in other parts of the body (2). The definitive diagnosis requires histological identification of the microliths (3).

References

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