Diagnosis of metastatic leiomyosarcoma by endobronchial ultrasound-guided transbronchial needle aspiration from right hilar lung mass: a case report

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OBJECTIVES
Leiomyosarcoma of the pulmonary vasculature is an extremely rare condition. Metastatic tumors of the pulmonary vasculature are uncommon.

Only a few cases of pulmonary vascular tumors diagnosed using endobronchial ultrasound-guided transbronchial needle aspiration (EBUS-FNA) have been reported in the literature.

METHODS

A CASE REPORT
- A 65 year old man with right lung hilar mass was diagnosed by computer tomography (CT). Patient is with previous history of leiomyosarcoma of right hand three years ago, treated by complete surgical excision and radiation. New tumor lung masses were found by CT after two years. New treatment was chemo- and biologic therapy.
- EBUS-FNA was performed from hilar mass. Papanicolaou smears and cell block were prepared.

CYTOLOGY (FNA-EBUS)
Groups of malignant spindle cells with foci of necrosis and several mitoses were present in the cell block. Desmin immunohistochemical stain was positive. Ki67 immunohistochemical stain was high, about 65%. Cytology diagnosis was metastatic leiomyosarcoma.

CONCLUSION
EBUS-FNA might useful in diagnosis of unusual metastatic tumors in mediastinum and lymph nodes.