

Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 58723

Manuscript Type: CASE REPORT

Clinical characteristics of pulmonary cryptococcosis coexisting with lung adenocarcinoma: Three cases reports

Pulmonary cryptococcosis coexisting with lung adenocarcinoma

Abstract

BACKGROUND

Pulmonary cryptococcosis (PC) is an invasive fungal disease caused mainly by *Cryptococcus neoformans* or *C. gattii*. It may be present in immunocompetent or immunocompromised patients. The radiographic features of PC vary, and the most common computed tomography manifestation is the presence of solitary or multiple pulmonary nodules or masses distributed in the outer zone of the lung field. The appearance of nodular or mass-like PC on computed tomography scans resembles that of primary or metastatic lung cancers, and differential diagnosis is sometimes difficult. The coexistence of PC and malignant tumors is rarely observed.

CASE SUMMARY

This study reported three cases of PC combined with lung adenocarcinoma diagnosed by video-assisted thoracic surgery lung biopsy, which were successfully managed by

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cosis [5]. As far as we know, **pulmonary cryptococ-cosis coexisting** with malignant tumor was only revealed in a few cases [4, 6–8]. It was reported that **lung cancer coexisted pulmonary cryptococcosis** was mainly histologically diagnosed with **adenocarcinoma**, which probably both of them were likely to occur in the periphery of the **lung** [9].

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lung biopsy and was diagnosed with **pulmonary cryptococcosis coexisting** with **adenocarcinoma**.

Delayed treatment of malignant tumor resulted in lymph node metastasis, higher pathologic stage, and probably poorer prognosis. Conclusions: Our patient's case serves as a reminder not to misdiagnose **pulmonary cryptococcosis coexisting** with **adenocarcinoma**.

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Nov 02, 2018 · **Pulmonary cryptococcosis coexisting with adenocarcinoma:** a **case** report and review of the literature. Li L(1), Zhuang L(2), Zhou J(1), Shao C(3). Author information: (1)Shanghai Respiratory Research Institute, Department **of Pulmonary** Medicine, Zhongshan Hospital, Fudan University, Shanghai, 200032, China.

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