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Invasive pulmonary aspergillosis mimicking organizing pneumonia after mTOR inhibitor therapy: a case report

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Highlights

- This is a first case report of invasive filamentous fungal infection complicated after the treatment by mTOR inhibitor.
- Opportunistic infection should be considered as well as organizing pneumonia as an adverse events after treatment by mTOR inhibitor.
- Reversed halo sign is not specific findings in organizing pneumonia but also in invasive fungal infection.

SUMMARY

A 67-year old man visited our hospital with complaints of fever and cough. He had a past medical history of renal cell carcinoma and had just started treatment with temsirolimus, a mammalian target of rapamycin (mTOR) inhibitor. A 1-week course of antibiotics did not have any effect on his symptoms. Chest computed tomography (CT) scan showed reversed halo sign (RHS). Organizing pneumonia induced by mTOR inhibitor treatment was initially considered. However, transbronchial biopsy revealed clusters of fungal

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