

First case report of human infection with *Micrococcus yunnanensis* identified by 16S rRNA gene sequencing

A case report

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Abstract

Background: *Micrococcus yunnanensis* (*M. yunnanensis*) is an endophytic actinomycete that was originally isolated from the roots of *Polyspora axillaris* in 2009, and no human infections caused by this organism have yet been reported. We report the first case of community-acquired pneumonia caused by *M. yunnanensis* and propose that *M. yunnanensis* should be considered as an emerging pathogen in medical practice. A 30-year-old woman was admitted to our hospital with fever, paroxysmal dry cough with sputum, and pharyngalgia. Laboratory tests revealed an increase in several inflammatory indicators, and a computerized tomography scan of the chest showed scattered infection foci in both lungs. Bronchoalveolar lavage fluid was collected via bronchoscopy for microbial culture and pathological examination.

Methods: The isolate from bronchoalveolar lavage fluid was identified as *M. yunnanensis* by 16S rRNA gene sequencing. The patient was diagnosed with community-acquired pneumonia based on the diagnostic criteria.

Results: The patient was treated with intravenous amoxicillin/clavulanate potassium, levofloxacin hydrochloride tablets, and compound methoxyphenamine capsules on the day after admission. After 3 days of treatment, the patient's physiological conditions and inflammatory indicators normalized, and 6-month follow-up showed no abnormalities.

Conclusion: Although the pathogenicity of *M. yunnanensis* is unclear, the present case indicates an emerging pathogen in medical practice. MALDI-TOF MS has a limited ability to identify novel or rare pathogenic species, and 16S rRNA gene sequencing is of great value in some circumstance.

Abbreviations: AST = antimicrobial susceptibility test, BALF = bronchoalveolar lavage fluid, MALDI-TOF MS = matrix-assisted laser desorption/ionization/time of flight mass spectrometry.

Keywords: 16S rRNA, case report, community-acquired pneumonia, emerging pathogen, *Micrococcus yunnanensis*.

1. Introduction

Micrococcus yunnanensis, an endophytic actinomycete, was initially isolated from the roots of *Polyspora axillaris* in Yunnan Province, South-west China.^[1] Subsequent studies have reported that *M. yunnanensis* was also isolated from *Carlinus rostratus* and pharmaceutical sewage.^[2–4] Recently, Lee et al reported the complete genome sequence of *M. yunnanensis* TT9 obtained from the skin of the forehead of a

healthy volunteer.^[5] *M. yunnanensis* has been characterized as a nonpathogenic organism that shows no external signs of infection in its host. Most studies have focused on the role of *M. yunnanensis* in industrial wastewater treatment and plant growth promoting activities,^[6–7] little is known about its role in the medical field. Here, we describe a case of human infection caused by *M. yunnanensis* isolated from bronchoalveolar lavage fluid (BALF) of a patient diagnosed with community-acquired pneumonia.

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The authors have no conflicts of interest to disclose.

The datasets generated during and/or analyzed during the current study are publicly available.

Ethical review and approval were obtained from the Medical Ethics Committee of The Central Hospital of Wuhan, Tongji Medical College, Huazhong University of Science and Technology, China. Written informed consent was obtained from the participant for the publication of this case report (including all data and images).

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