



INFECTIOUS DISEASES (BACTERIAL, FUNGAL, VIRAL, PARASITIC, INFESTATIONS)

## CUTANEOUS INFECTION CAUSED BY FUSARIUM LICHENICOLA IN A PATIENT WITH VERRUCOUS HYPERPLASIA VERMICULATUM MANIFESTATION

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Case Report: A 4-year-old girl presented with a 2 years history of verrucous hyperplasia vermiculatum in the right cheek. Culture from the biopsy material grew a white mode. The isolate was identified as *Fusarium lichenicola* based upon morphologies and phylogenetic tree analysis which was created based on the analysis for TEF1 $\alpha$  gene of 43 *Fusarium* species. The drug susceptibility test showed the MICs to be 0.25ug/ml for AmB, 2ug/ml for voriconazole and posaconazole, >64ug/ml for 5-Fc, and >16ug/ml for Itr. We started treatment with intravenous AmB with initiated dose of 0.1 mg per kg of body weight per day and increased to 0.8mg/kg on day 7 and maintained for a total of 750 mg for 65 days. Then the girl was treated with injections of intralesional AmB (2.5mg/L) in the outpatient department every one or two weeks for 10 times with little improvement. Followed treatment with oral voriconazole (50mg bid) and the lesion is getting improved with reducing infected area till now. In previous cases of infection caused by *Fusarium lichenicola*, this species has been characterized as causes of keratitis, mycetoma, athlete's foot, scaly lesions in the webspaces, localized invasive lesion in a case of acute myelogenous leukemia (AML) and disseminated infection in two case of neutropenic patient with acute Leukemia. The clinical manifestation were characterized by localized involvement, slow pace of progression, lesion of scaly verrucous formation and laceration. Rarely, the infection lead to invasive disease in immunocompromised patients. Mostly, terbinafine, itraconazole and/or AmB were used and showed effective for the treatment.

Conclusions: Herein, we report the first case of localized cutaneous infection presented as verrucous hyperplasia vermiculatum caused by *Fusarium lichenicola* in an immunocompetent 4-year-old girl in Mainland China.

