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Rapid detection of sporotrichosis by ABC-ELISA

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Abstract

Background: Avidin-biotin-horseradish peroxidase enzyme complex, enzyme-linked immunosorbent assay (ABC-ELISA) is widely used in detecting the soluble bacterial, viral antigen and antibody, but the reports of detecting mycotic antigens were few. We used the method to detect Sporothrix schenckii pathogen of sporotrichosis in smear.

Aim: To provide a rapid diagnostic method for sporotrichosis.

Methods: 20 cases of sporotrichosis-in doubt we scraped pus or tissue fluid from the skin lesion and perform ABC-ELISA by reagent vectastatin ABC kit, rabbit anti Sporothrix schenckii serum.

Results: 18 of 20 cases were diagnosed as sporotrichosis. 14 of 18 cases were positive (77.8%) by ABC-ELISA stain, 5 of 18 cases were positive (27.7%) by Gram stain.

Conclusion: ABC-ELISA is new fashioned biological amplification technique. Due to its sensitivity this method is 77.8% in smear, the specificity is 100%. Only three hours is needed, so this method can be used to detect Sporothrix schenckii rapidly.

Biography

Xianling Cong, M.D is an Associate Professor of Dermatology in the third hospital of Jilin University, Changchun, China. She got her medical degree in Jilin University, and completed her post dcotoral research in the Sidney Kimmel Cancer in San Diego in U.S. With 20 years of clinical experience in dermatology, she is specialized in the diagnosis of Sporotrichosis.