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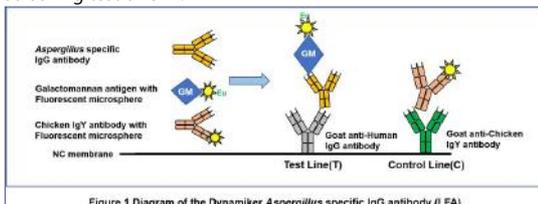
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Rapid identification of *Aspergillus*-Specific IgG antibody via a fluorescence immunochromatography assay

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Abstract:

Background Chronic pulmonary aspergillosis (CPA) is an uncommon and problematic pulmonary disease, complicating many other respiratory disorders. Measurement of *Aspergillus*-specific IgG antibodies had a higher sensitivity than either IgM, IgA, or IgE and it should therefore be considered the most appropriate test for screening CPA. *Aspergillus*-specific IgG antibody levels have been successfully used to monitor the response of CPA to medical therapy. Recently, a novel rapid test for *Aspergillus*-specific IgG antibody from Dynamiker Biotechnology (Tianjin) Co., Ltd. was released as a screening test of CPA. It is a fluorescent immunochromatographic cassette test using a monoclonal antibody against *Aspergillus*-specific IgG antibody and Europium nanoparticles (Eu NP) (Figure 1). It is a semi-quantitative test that was easy to operate, rapid with portable detection devices, and can be widely accepted by clinical and primary medical. We collected clinical samples to verify the detection performance of the Dynamiker Quic™ *Aspergillus*-specific IgG antibody (LFA) test. **Methods** In total, 102 patients were included and 42 patients were diagnosed with CPA. The pathogen was identified from sputum, BALF culture, lung resection surgery, bronchoscopy with transbronchial biopsy, percutaneous lung biopsy, and BALF GM assay. **Results** The sensitivity, specificity, PLR, NLP and Kappa index of the IgG antibody test were 78.6%,94.4%,14.0% ,0.23% and 0.72, respectively. **Conclusions** The current work indicates that the Dynamiker Quic™ *Aspergillus*-specific IgG antibody (LFA) test shows a promising application in the diagnosis of CPA. The results are accurate and reliable, which could be used as an aid for the early rapid screening test of CPA.



Topic (Complete): Microbiology and Infectious Diseases ; Hematology/Coagulation

Related Division (Complete): Critical and Point-of-Care Testing Division ; Clinical and Diagnostic Immunology Division ; Hematology and Coagulation Division

Oral Presentation (Complete): None selected

Division Awards (Complete):

I have read and understand the eligibility requirements for any awards I have selected. (required) : True

Additional Awards (Complete):

Attached Files: No Files Attached

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