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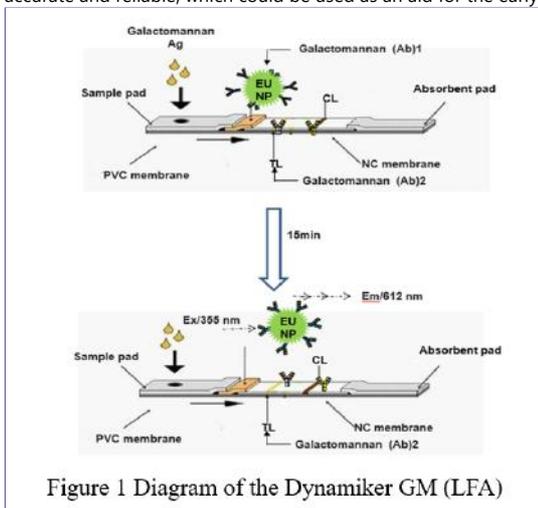
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### A Novel Rapid test for *Aspergillus* Galactomannan

**Author Block:** J. Guo, W. Wu. Department of Laboratory Medicine, Shanghai East Hospital, Tongji University School of Medicine, Shanghai, China.

#### Abstract:

**BACKGROUND** Invasive Aspergillosis (IA) is a life-threatening opportunistic mycosis that occurs in some people with a compromised immune system. The detection of *Aspergillus* galactomannan (GM) rapidly gained widespread acceptance as part of the diagnostic workup of a patient suspected of IA. Recently, a novel QuicGM™ *Aspergillus* Galactomannan Ag Lateral Flow Assay (LFA) from Dynamiker Biotechnology (Tianjin) Co., Ltd. was released as a screening test of IA. It is a fluorescent immunochromatographic cassette test using a monoclonal antibody against GM 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 conducted a comparative study between the Dynamiker QuicGM™ *Aspergillus* Galactomannan Ag (LFA) and the Dynamiker *Aspergillus* Galactomannan Assay (ELISA) to validate the performance of the novel assay. **METHOD** A total of 113 serum samples and 3 BALF samples were collected. The samples were tested in parallel using the *Aspergillus* Galactomannan Assay (ELISA) and QuicGM™ *Aspergillus* Galactomannan Ag (LFA). **RESULTS** The total coincidence rate, positive coincidence rate, and negative coincidence rate of the two assays were 93.1%(108/116), 87.8%(36/41), and 96%(72/75) (Kappa value was 0.83>0.75) in 116 samples respectively. **CONCLUSIONS** The performance of the QuicGM™ *Aspergillus* Galactomannan Ag (LFA) and the *Aspergillus* Galactomannan Assay (ELISA) were highly consistent, and the performances of the Dynamiker *Aspergillus* Galactomannan kit were all in line with the statement of the manufacturer. The results are accurate and reliable, which could be used as an aid for the early rapid screening test of IA.



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

**Related Division (Complete):** Critical and Point-of-Care Testing Division ; Clinical and Diagnostic Immunology Division ; Personalized Medicine Division

**Oral Presentation (Complete):** None selected

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