

عنوان مقاله:

Advances in diagnosis approaches of invasive fungal infections in haematological malignancy patients

محل انتشار:

بیست و سومین کنگره بین المللی میکروب شناسی ایران (سال: 1401)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Background and Aim : Invasive fungal infections (IFI) remain important causes of morbidity and mortality in hematologic malignancy patient's population. It is clear that new approaches to the management of IFIs are required. Recent advances in diagnosis now allow the use of very sensitive imaging techniques with an extremely low negative predictive value. New diagnostic methods facilitate an early diagnosis of invasive fungal disease and allow for utilization of a pre-emptive treatment approach, which may ultimately lead to improved treatment outcomes and reduced toxicity. **Methods :** The aim of this article is to review classical and new diagnostic tools for IFIs in hematologic malignancy patient's and to summarize current limitations of these methods. **Results :** Since conventional diagnostic tools such as culture lack sensitivity and specificity, alternative diagnostic assays have been developed. In recent years, progress has been made in the development and evaluation of sensitive sero-diagnostic assays, including detection of genomic DNA sequences and fungal antigens, which aid in a rapid, early diagnosis of IFI. Both serology and PCR can be used to monitor the response to antifungal therapy. The optimal use of non-culture based methods is in prospective screening of patients at high risk. **Conclusion :** The early diagnosis of IFIs still remains a problem as existing tools lack sensitivity or specificity. Therefore, the combination of microscopy, culture-based methods, and serological and molecular techniques is necessary to allow early detection of IFIs.

کلمات کلیدی:

Invasive fungal infections; new approaches; haematological malignancy

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