

عنوان مقاله:

Invasive fungal infections in children with leukemia in a tertiary hospital in Oman: An eight-year review

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خلاصه مقاله:

Background and Purpose: Invasive fungal disease (IFD) is a common and serious consequence of leukemia in children and the incidence of these infections has increased due to chemotherapy. This study aimed to present the epidemiology of IFD in a cohort of children with leukemia from a tertiary reference institution in Oman. Materials and Methods: A retrospective study of IFDs in pediatric patients below 1th years of age with newly diagnosed or relapsed leukemia was conducted at the Royal Hospital in Muscat, Oman. From Yolo to YolV, IFD episodes in children with leukemia were evaluated retrospectively, considering age, gender, type of leukemia, chemotherapy regimen, IFD detection phase, neutropenia, prevention, diagnostic method, and treatment.Results: Between Yolo and YolV, 19A children with leukemia were admitted and treated at Royal Hospital. Invasive fungal infection (IFI) was diagnosed in ٣٢ patients out of 19λ (1۶.1%), and IFI was defined as probable and proven in ΔΨ% (n=1V) and FV% (n=1Δ) of the cases, respectively. At 1.1:1, the male-to-female ratio was roughly equal. According to chest computed tomography scans, 56.5% of patients had radiological features of fungal infections. Positive fungal cultures were found in the bronchoalveolar lavage of three patients, ٣٧.۵% of whom had positive blood cultures, and ٣% had positive urine cultures as a neonatal invasive candidiasis. In three patients, invasive aspergillosis caused pulmonary IFD, accounting for 9.7% of all infection sites. Candidaemia was found in YA% of IFD patients, and the most common organism was Candida tropicalis (۱۵.5%), followed by Candida prapsilosis (۶.۲۵%). Furthermore, the major risk factor was febrile neutropenia. Conclusion: In children with leukemia, invasive fungal infection is common and serious. Despite .aggressive treatment, mortality among these high-risk patients remains high

كلمات كليدى:

Acute Lymphoblastic Leukemia, Antifungal, Aspergillus, Candida, children, Invasive fungal infection, Prevalence

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