

عنوان مقاله:

Invasive fungal infections in a pediatric hematology-oncology department: A ۱۶-year retrospective study

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نویسندگان:

Nikoleta Kazakou - Hematology-Oncology Unit, ۲nd Department of Pediatrics, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

Timoleon-Achilleas Vyzantiadis - First Department of Microbiology, School of Medicine, Aristotle University of Thessaloniki, Greece

Anastasia Gambeta - Hematology-Oncology Unit, ۲nd Department of Pediatrics, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

Eleni Vasileiou - Hematology-Oncology Unit, ۲nd Department of Pediatrics, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

Eleni Tsotridou - Hematology-Oncology Unit, ۲nd Department of Pediatrics, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

Dimitrios Kotsos - Hematology-Oncology Unit, ۲nd Department of Pediatrics, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

Athina Giantsidi - Hematology-Oncology Unit, ۲nd Department of Pediatrics, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

Anna Saranti - Hematology-Oncology Unit, ۲nd Department of Pediatrics, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

Maria Palabougiouki - Hematology-Oncology Unit, ۲nd Department of Pediatrics, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

Maria Ioannidou - Hematology-Oncology Unit, ۲nd Department of Pediatrics, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

Emmanuel Hatzipantelis - Hematology-Oncology Unit, ۲nd Department of Pediatrics, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

Athanasios Tragiannidis - Hematology-Oncology Unit, ۲nd Department of Pediatrics, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

خلاصه مقاله:

Background and Purpose: Invasive fungal infections (IFIs) are a major cause of morbidity and mortality in immunocompromised children. The purpose of our study was to evaluate the incidence of IFIs in pediatric patients with underlying hematologic malignancies and determine the patient characteristics, predisposing factors, diagnosis, treatment efficacy, and outcome of IFIs. **Materials and Methods:** For the purpose of the study, a retrospective analysis was performed on cases with proven and probable fungal infections from January ۲۰۰۱ to December ۲۰۱۶ (۱۶ years). **Results:** During this period, ۲۹۷ children with hematologic malignancies were admitted to the ۲nd Pediatric Department of Aristotle University of Thessaloniki, Greece, and ۲۴ cases of IFIs were registered. The most common underlying diseases were acute lymphoblastic leukemia (ALL; n=۱۹, ۷۹%), followed by acute myeloid leukemia (AML; n=۴, ۱۷%) and non-Hodgkin lymphoma (NHL; n=۱, ۴%). The crude incidence rates of IFIs in ALL, AML, and NHL were ۱۰.۵%, ۱۸.۲%, and ۲.۸% respectively. Based on the results, ۲۵% (n=۶) and ۷۵% (n=۱۸) of the patients were diagnosed as proven and probable IFI cases, respectively. The lung was the most common site of involvement in ۱۶ (۶۶.۷%) cases. Furthermore, *Aspergillus* and *Candida* species represented ۵۸.۳% and ۲۹.۱% of the identified species, respectively. Regarding antifungal treatment, liposomal amphotericin B was the most commonly prescribed therapeutic agent (n=۲۱), followed by voriconazole (n=۹), caspofungin (n=۳), posaconazole (n=۳), micafungin (n=۱), and fluconazole (n=۱). In addition, ۱۲ children received combined antifungal treatment. The crude mortality rate was obtained as ۳۳.۳%. **Conclusion:** As the findings of the present study indicated, despite the progress in the diagnosis and treatment of IFIs with the use of new antifungal agents, the mortality rate of these infections still remains high.

کلمات کلیدی:

Invasive fungal infections, children, Hematologic malignancies, Aspergillosis, Invasive candidiasis

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