

## عنوان مقاله:

Candidemia due to *Candida guilliermondii* in an immunocompromised infant: a case report and review of literature

## محل انتشار:

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## خلاصه مقاله:

**Background and Purpose:** Candidemia is a life-threatening fungal infection with significant mortality and morbidity in neutropenic individuals, immunosuppressive chemotherapy recipients, and broad-spectrum antibiotics consumers. The epidemiology and antifungal susceptibility testing of non-albicans *Candida* species have been poorly studied. These species are characterized by low susceptibility to azoles and echinocandins. Herein, we report the first pediatric case of candidemia due to *C. guilliermondii* in Iran and review the literature on fungemia caused by *C. guilliermondii*. **Case report:** We presented the first candidemia case due to *Candida guilliermondii* in a 4-month-old male infant with neuroblastoma in Iran. This study also involves a comprehensive literature review on fungemia caused by *C. guilliermondii* during a period of 18 years (i.e., 2000-2018) to discuss the epidemiology, clinical features, and treatment of this disease. The literature review resulted in the identification of 501 cases of candidemia caused by *C. guilliermondii*. Most of the patients were adults and had multiple risk factors. However, the main risk factors were significantly related

to cancer chemotherapy, followed by central venous catheter use and Intensive Care Unit admission. Mortality rate due to this disease had a range of ۳.۴-۶۶.۶%; in this regard, the patients with cancer had the highest mortality rate. Conclusion: Given the high mortality of candidemia, the early diagnosis of this infection and timely initiation of antifungal therapy significantly improve the patients' survival rate and result in better outcomes. Consequently, it is highly recommended to monitor the local epidemiology of this life-threatening infection and raise awareness in this regard.

### کلمات کلیدی:

*Candida guilliermondii*, Candidemia, cancer, Pediatric

### لینک ثابت مقاله در پایگاه سیویلیکا:

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