

عنوان مقاله:

Characterization and identification of candiduria due to Candida species in diabetic patients

محل انتشار:

سرطان معده, دوره 2, شماره 3 (سال: 1395)

تعداد صفحات اصل مقاله: 5

نویسندگان:

Mehraban Falahati - Department of Parasitology and Mycology, School of Medicine, Iran University of Medical Sciences, Tehran, Iran

Shirin Farahyar - Department of Parasitology and Mycology, School of Medicine, Iran University of Medical Sciences, Tehran, Iran

Lame Akhlaghi - Department of Parasitology and Mycology, School of Medicine, Iran University of Medical Sciences, Tehran, Iran

Kamran Sabzian - Department of Pediatrics, Shahid Rahimi hospital, Lorestan University of Medical Sciences, Khorramabad, Iran

Mohamad Yarahmadi - Department of Medical Parasitology and Mycology, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran

Reza Aslani - Department of Parasitology and Mycology, School of Medicine, Iran University of Medical Sciences, Tehran, Iran

خلاصه مقاله:

Background and Purpose: The presence of Candida yeasts in urine, known as candiduria, is an indicator of infection or colonization of the urinary tract by Candida species. This condition in diabetic patients can be hazardous due to diminished immune system response. The objective of this study was to investigate the incidence of candiduria in diabetic patients and to identify its causative agents. Furthermore, the demographic and laboratory (HbA)c, urine glucose and pH, urine culture colony count, and fasting blood sugar) data and their possible associations with candiduria were investigated. Materials and Methods: This cross-sectional, descriptive study was performed on ۳۰۵ diabetic patients referred to the diabetes research center, Hamedan, Iran, during April ۲۰۱۵ to September ۲۰۱۵. Urine and blood specimens were collected and urine analysis, urine culture, FBS, and HbA\c tests were performed. Positive cases were subjected to colony count and the causative agents were subsequently identified through the routine identification tests, as well as colony color in CHROMagar Candida medium, and the assimilation patterns in API Yo C auxanographic method. Results: Among the ۳۰۵ cases, ۳۸ (%۱۲.۵) were positive for candiduria. Causative agents were identified as Candida glabrata (n=19, Δο%), C. albicans (n=17, ٣١.۶%), C. krusei (n=۴, 10.Δ%), C. tropicalis (n=7, ۵.۳%), and C. kefyr (n=1, ۲.۶%). According to the results of the statistical analyses, there were significant association between candiduria and female gender, high FBS and urine glucose, uncontrolled diabetes (HbAtc ≥A), and acidic urine pH (P < /em><...Δ). Conclusion: Considering the high incidence rate of candiduria in diabetic patients, control of .diabetes, predisposing factors, and causal relationships between diabetes and candiduria should be highlighted

کلمات کلیدی: Candida, Diabetes, HbA۱c, Urinary tract infections

https://civilica.com/doc/1838227

لینک ثابت مقاله در پایگاه سیویلیکا:

