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Molecular Detection of *Candida aaseri* in Oral Cavity of Immunocompromised Patients

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Authors' contributions

This work was carried out in collaboration among all authors. Author SJR carried out the experiments. Authors MYAl-M and SJR wrote the manuscript. Authors MYAl-M and AAB supervised the project and conceived the original idea. All authors read and approved the final manuscript.

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ABSTRACT

The impaired human immune system, resulting from diabetes mellitus, can lead to the transition of *Candida* from a commensal to a pathogenic status, causing oral fungal infections. *Candida aaseri* is a dimorphic yeast with lipolytic activity which has not been previously reported in clinical infections. This study reports an extremely rare oral fungal infection associated with *C. aaseri* in a patient with type II diabetes mellitus. The patient, a 42-year-old female with diabetes mellitus type II from Basrah, Iraq, was and identified with a fungal oral infection. Swab samples were collected from the patient's oral cavity for microbial investigation and cultured on Sabouraud Dextrose Agar (SDA) at 37°C for 48 hours. The results revealed pure yeast growth. Blue colonies were observed on CHROMagar Candida. The genomic DNA of the isolated yeast was extracted for molecular-level

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