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**Association between glycemic status and oral *Candida* carriage in patients with prediabetes**

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**Objective:** This study assessed the association between glycemic status and oral *Candida* carriage among patients with prediabetes.

**Study Design:** This was a comparative study of oral *Candida* carriage among individuals with prediabetes. Oral yeast samples were collected from 150 individuals: group A was 43 patients with prediabetes (fasting blood glucose levels and hemoglobin A1c, 100 to 125 mg/dL and  $\geq 5\%$ , respectively); group B was 37 individuals previously considered prediabetic but having fasting blood glucose levels  $< 100$  mg/dL and hemoglobin A1c  $< 5\%$ ; and group C was 70 medically healthy individuals. Oral yeasts were identified using standard techniques. Unstimulated whole salivary flow rate and number of missing teeth were recorded.

**Results:** Oral *Candida* was isolated from 100% of patients with prediabetes and from 65.7% of control participants. *Candida albicans* carriage was higher among patients with prediabetes (48.7%) ( $p < 0.01$ ) and patients in group a (51.2%) ( $p < 0.01$ ) than among controls (25.7%). *Candida* carriage, unstimulated whole salivary flow rate, and number of missing teeth were similar in groups A and B.

**Conclusions:** Oral *Candida* carriage was higher in patients with prediabetes than in controls and was independent of glycemic status in patients with prediabetes.

**Biography**

Fawad Javed (BDS, PhD) completed his Doctoral and Postdoctoral education from the Department of Dental Medicine, Karolinska Institute, Sweden in December 2008. Presently, he is a Research Associate at the Division of General Dentistry, Eastman Institute for Oral Health, University of Rochester, NY, USA. He has published over 85 studies in peer-reviewed indexed medical and dental journals. His research interests include oral immunology, oral mycology, oral oncology, oral radiology, implant dentistry and assessment of the influence of systemic diseases (particularly Diabetes) on oral health. He is also serving on the Editorial board and Peer-review panels of several ISI-indexed medical and dental journals.

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