

## DENTAL AND ORAL HEALTH CONGRESS

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**Association of salivary levels of IgA and amylase with oral-dental manifestations in type-2 diabetic patients****Marjan Kheirmand Parizi**

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**Objective:** The aim of present study was to evaluate the salivary immunoglobulin-A (s-IgA) and salivary amylase levels and their associations with oral-dental manifestations in patients with controlled and non-controlled type-2 diabetes.

**Material & Method:** This case-control study was performed on 90 subjects who referred to the Diabetes Center of Shahid Bahonar Hospital, Kerman University of Medical Sciences, Iran. Participants were divided into three groups: Group-1 uncontrolled diabetic patients (n=30), group-2 controlled diabetic patients (n=30) and group-3 healthy individuals (n=30). Unstimulated salivary levels of IgA and amylase were measured. All participants underwent a dental examination to explore the oral-dental manifestations.

**Result:** Significant higher level of s-IgA was found in uncontrolled diabetic patients compared to controlled diabetic ( $P \leq 0.0001$ ) and control subjects ( $P = 0.004$ ). Moreover, the mean levels of s-amylase in uncontrolled patients was significantly higher compared to controlled diabetic ( $P = 0.01$ ) and control subjects ( $P \leq 0.0001$ ). Uncontrolled diabetic patients with oral candidiasis, erythematous candidiasis, abscesses, or xerostomia had higher s-IgA levels compared to the controlled diabetic participants.

**Conclusion:** In conclusion, higher s-amylase and s-IgA concentrations may reflect oral-dental manifestations in T2DM. Moreover, the current findings suggest that s-amylase and s-IgA may serve as a complementary and alternative fluid in screening for diabetes mellitus.

**Biography**

Marjan Kheirmand Parizi has completed his DDS from Kerman University of Medical Sciences, Iran. She has published articles in journals and is currently working as Dentist at Hormozgan University of Medical Sciences, Iran.

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