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Bidirectional Associations between Oral Conditions, Glucose Abnormalities and Potential Nutrition-Related Mediators

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Message from the Guest Editor

Periodontitis is one of the potential complications of diabetes. Conversely, periodontitis could lead to tooth loss, which in turn could detrimentally impact dietary intake and lead to chronic disease like diabetes. Potential mediators include dietary and nutritional factors, dyslipidemia, markers of inflammation and endothelial dysfunction, and advanced glycation end-products.

In addition to diabetes, several glucose abnormalities such as insulin resistance, impaired glucose tolerance, and pre-diabetes have been evaluated in a few studies in this context, and findings are inconsistent. Longitudinal studies relating periodontitis and glucose abnormalities show inconsistent results in both directions. The causal interpretations of these associations are further complicated by numerous common risk factors that may confound the associations. More research is needed to better understand these associations, the reasons for inconsistencies, causal interpretation, and understanding pathways for these associations. This Special Issue welcomes original manuscripts and review articles that provide insight or new data to better understand these associations.



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