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Oral health status of children with type 1 diabetes: A comparative study (Article)

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Abstract

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The aim of this study was to compare the oral health status of children with type 1 diabetes and healthy controls. This comparative study involved 64 children, 32 children with type 1 diabetes and 32 age- and gender-matched controls. Oral health examination was conducted using WHO criteria. Dental caries experience was recorded using DMFT/dmft index and periodontal parameters were assessed using plaque, gingivitis, gingival bleeding and calculus indexes. Dental caries and periodontal parameters between the two groups were compared using the Mann-Whitney U-test. Children with diabetes exhibited significantly greater plaque deposits (p=0.01) and a higher mean plaque index (p<0.01), when compared to healthy subjects. No significant difference in DMFT and dmft scores, mean bleeding index, calculus index and gingival index was found between the two groups. Children with type 1 diabetes had a poor oral health status with greater plaque accumulation than children without diabetes. © 2017 2017 Walter de Gruyter GmbH, Berlin/Boston.

Author keywords

caries children oral health periodontal health type 1 diabetes

Indexed keywords

EMTREE medical terms:

Article calculus index child clinical article comparative study controlled study dental caries dental health DMFT index female gingiva bleeding gingival bleeding index gingival index gingivitis Hong Kong human insulin dependent diabetes mellitus male periodontal disease assessment plaque index tooth calculus tooth plaque

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