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Keywords: Periodontal disease, Host-microbial interactions, HIV infection, pharmacology, infection

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Abstract Disclosures

Objective: Highly active anti-retroviral therapy (HAART) was associated with alterations in subgingival biofilm and periodontal disease. It was the purpose of this study to investigate the association between different HAART regimens and the prevalence of periodontal pathogens in HIV-infected patients with chronic periodontitis in a case series.

Method: Subgingival periodontal pathogens were determined by a DNA chip microarray in a case series in fourteen HIV-infected subjects receiving HAART with different drug combinations: protease inhibitor based (PI)/HAART vs. non nucleoside reverse transcriptase inhibitor based (NNRTI)/HAART. In a statistical analysis, it was calculated whether specific HAART regimens were associated with ten periodontal pathogens using odds ratios.

Result: At baseline and after treatment, the subjects did not show significant clinical and immunological differences. In general, the highest odds ratios for the prevalence of periodontal pathogens were found in the PI/HAART group for *A. viscosus* (OR: 303), *C. rectus* (OR: 90), and *T. denticola* (OR: 25). In the NNRTI/HAART group, higher odds ratios were documented for *F. nucleatum* (OR: 56) and *E. corrodens* (OR: 25). The association between *A. viscosus* and PI/HAART was statistically significant ($p=0.03$).

Conclusion: The results demonstrated statistical associations between subgingival bacteria and anti-retroviral drug therapies. Further investigation on the clinical significance and underlying mechanisms are needed to lighten these findings.

Abstract

Influence of HAART on the subgingival biofilm in HIV-infected patients

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