

The Association Between Periodontal Disease And Arthritis: A Nationwide Population-Based Study

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Objectives:

To investigate the association between periodontal disease and arthritis with a cross-sectional study in Taiwan.

Methods:

A sample of 1,878,401 individuals covered by the National Health Insurance in 2005 was recruited. We identified 9,305 patients with periodontitis and 6,722 patients with arthritis in our study. Multiple logistic regression was used to analyze the association between periodontal disease and arthritis, and the model was adjusted for age, sex, insurance amount, and region.

Results:

In the outcome of multiple logistic regression analysis, patients with periodontal disease showed a statistically significantly higher risk with arthritis in women (OR=1.39) after adjusted by age, sex, insurance amount and region.

Conclusions:

An association between periodontitis and arthritis in women existed in our study.

Key words: Periodontal Disease, Arthritis, National Health Insurance Database.