

## Periodontal health knowledge and awareness among subjects with fixed orthodontic appliance

Elham S. Abu Alhaija<sup>1</sup>, Eman M. Al-Saif<sup>1</sup>, Dafi Q. Taani<sup>1</sup>

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**Objective:** To report on periodontal health knowledge and awareness among orthodontic patients and to investigate the effect of age, attitude and duration of orthodontic treatment on periodontal health awareness among orthodontic patients.

**Methods:** A total of 297 orthodontics patient (90 males, 207 females) with mean age of  $17.7 \pm 5.0$  years (older then 18 years = 119, 18 years or younger = 178) were included in this study. Subjects were currently wearing upper and lower fixed orthodontic appliances for an mean period of  $12.55 \pm 10.86$  months (less than or equal to 18 months = 231, more than 18 months = 66). Data was collected through a self-administered questionnaire (demographic characteristics, subjects' awareness toward their periodontal health, periodontal knowledge among orthodontic patient and patients' attitude toward orthodontic treatment regarding periodontal health) and clinical periodontal examination.

**Results:** Periodontal knowledge was poor among orthodontic patients in relation to dental plaque. Only 24 subjects (8%) correctly answered knowledge-related questions. Adult orthodontic patients reported negative attitude toward fixed orthodontic treatment in respect to periodontal health (p < 0.001). Duration of orthodontic treatment negatively affected subjects' attitude toward fixed orthodontic treatment (p < 0.01). The majority of subjects were in the high level of awareness group (64%). Orthodontic patients' awareness toward their periodontal health during fixed orthodontic treatment was affected by attitude scores (p = 0.005), number of teeth with gingival recession (p = 0.041), Gingival Index (p = 0.000), duration of treatment (p = 0.047) and age (p = 0.008).

**Conclusions:** Periodontal health knowledge among orthodontic patients was poor. Orthodontic patients' awareness of their periodontal health was moderate and was affected by age, attitude and duration of orthodontic treatment.

**Keywords:** Awareness. Attitude. Orthodontic. Periodontal health.

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Contact address: Elham S. Abu Alhaija E-mail: elham@just.edu.jo

<sup>\*</sup> Access www.scielo.br/dpjo to read the full article.

<sup>&</sup>lt;sup>1</sup> Jordan University of Science and Technology, Faculty of Dentistry, Department of Preventive Dentistry (Irbid, Jordan).