

Effect of Oral Health Promotion Program on Oral Health Behavior Among Adults Wearing Braces

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ABSTRACT

Periodontal disease is common side effect of orthodontic treatment owing to difficulty of tooth cleaning. Traditional oral hygiene instruction was provided to tackle this problem; however, the effect did not last. Therefore, a new oral health educational program promoting oral health literacy (OHL) via experiential learning is developed. The aim of this research is to evaluate the effectiveness of the program on OHL and oral health behavior (OHB). Before designing the program, oral health needs will be assessed via survey research by self-administered questionnaires, and related factors to OHB will be determined by systematic literature review. The information will be gathered to generate a suitable program for adult orthodontic patients. 60 adults wearing braces will be recruited for experimental design and divided into 2 groups. The participants in experimental group will be taught with a developed program consisting of OHL and experiential education while the participants in the control group will receive another dental knowledge. Data will be collected by self-administered questionnaires with IOC 0.6-1.0 of OHL, OHB and plaque index score (PI). The documents will be measured at initial, final, and 2 weeks follow-up. 2-way-MANOVA will be used to compare levels of OHL, OHB, and PI between experimental and control groups and also determine the interaction effect between the program and factors obtained from systematic literature review. The persistence of variables will be analyzed via repeated measure ANOVA. The research results would be advantageous in developing effective oral health educational program that promotes sustainable OHB and OHL.

Keywords: oral health literacy, oral health behavior, oral health program, orthodontics