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ABSTRACT

Perception of Periodontal Health Among Patients with BPE Score 4 in Tawau, Sabah, and the Associated Factors: A Cross-Sectional Study

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NMRR Research ID: NMRR-21-02157-JGS **Introduction:** Individuals' perception of periodontal health is influenced not only by signs and symptoms of periodontal diseases but also by socio-demographics and oral health practices. This study aimed to determine association between self-perceived the periodontal health. sociodemographic characteristics, and oral health practices. Methods: This is a cross-sectional study using a validated guestionnaire, which comprises sociodemographic characteristics, oral health practices, and self-perceived periodontal health. The calculated sample size was 149 adult subjects in Tawau District, Sabah with a Basic Periodontal Examination (BPE) score of 4. Multiple logistic/linear regression was used to determine the association between the variables. The significant level was set at p<0.05. Results: The total number of respondents was 149 and the mean (SD) age was 47.7 (14.92) years. Having been told by a dentist to have periodontal diseases (β = 1.167, Exp (B) = 3.214, P = 0.026) was found to be significantly associated with the perception of having periodontal diseases. The oral health practice of using mouthwash regularly (β = 1.027, Exp (B) = 2.791, P = 0.020), perceived to have bleeding gum ($\beta = 2.293$, Exp (B) = 9.906, P < 0.001) and perceived to have wobbly teeth $(\beta = 0.990, Exp (B) = 2.690, P = 0.037)$ were significantly associated with the perception of having gingival swelling. The use of dental floss regularly was significantly associated with the perception of needing specialist care for periodontal diseases ($\beta = 1.662$, Exp (B) =

5.268, P=0.017). **Conclusion:** In conclusion, dental visits and oral health practices were significantly associated with self-perceived periodontal health. This study helps to improve

the understanding among dental officers of the perception of periodontal health hence increasing the referral to periodontists.