

Thesis Title      Prevalence of Temporomandibular Disorders  
                         after Orthodontic Treatment.

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Date of Graduation   5 August B.E. 2535 (1992)

#### ABSTRACT

The relationship between orthodontic treatment and temporomandibular disorders were investigated in an effort to determine whether orthodontic treatment causes, cures, or does not influence Temporomandibular disorders, 120 Thais with previous orthodontic treatment, age range from 15 to 30 years were examined to evaluate the function and dysfunction of the masticatory system. Their functional status was evaluated according to Helkimo's dysfunction index by using clinical examination and questionnaires.

39.2 % were completely absent of subjective symptoms (Ai0), 35.8 % had mild subjective symptoms (Ai I) and 25 % had severe symptoms (Ai II). Clinical

examination showed that 25 % were completely absent of clinical symptoms (Di 0), 65.8 % had mild symptoms (Di I) 7.5 % had moderate symptoms (Di II), and 1.7 % had severe symptoms (Di III).

Statistical analysis showed no significant relationship between clinical dysfunction index and various variables at 95 % confidence interval except for the relationship between clinical dysfunction index and the overjet, clinical dysfunction index and the occlusal interferences. Comparison of the prevalence of TM disorders in the present study to the other studies showed that the prevalence of Temporomandibular Disorders after orthodontic treatment was lower than those without orthodontic treatment.