

## C865180 : MAJOR PROSTHODONTICS

KEYWORD : RETENTION GROOVE / BONDING / ACRYLIC TEETH / DENTURE BASE

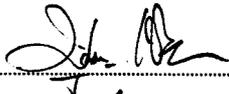
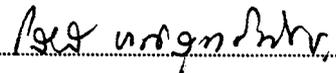
BOONCHAI CHAOKLAIWONG : EFFECT OF RETENTION GROOVES ON BONDING  
BETWEEN ACRYLIC TEETH AND DENTURE BASE. THESIS ADVISOR : PROF.  
SOBHI CHATSUTHIPUN. 97 pp. ISBN 974-637-252-1

This research has the objective to study the effects of pattern and direction of retention grooves on bonding between acrylic teeth and denture base. There were 3 main groups of specimen, depending on pattern of the burs used for retention grooves preparation which were fissure bur, inverted cone bur and round bur. Each main group divided to be 3 minor groups by the direction of retention groove that were Mesio-Distal, Labio-Lingual and Both direction. The control group which had no retention groove preparation and each minor group consisted of 10 specimens. Total 100 specimens were tested for shear-compressive strength by Lloyd universal testing machine. Data were analysed and the results are as follow:

There are no interaction effects between the pattern and the direction of retention groove on bonding between acrylic teeth and denture base at 95% confidence interval when analysed with two-way ANOVA with replication. There is neither any effect of the pattern nor the direction on the bonding. The means of the force gotten from every group of the specimen are not different from the control group significantly at 95% confidence interval when analysed with one-way ANOVA.

This research concludes that the pattern and direction of retention groove have no effect on bond strength between acrylic teeth and denture base.

ภาควิชา.....ทันตกรรมประดิษฐ์.....  
สาขาวิชา.....ทันตกรรมประดิษฐ์.....  
ปีการศึกษา.....2540.....

ลายมือชื่อนิสิต.....  
ลายมือชื่ออาจารย์ที่ปรึกษา.....  
ลายมือชื่ออาจารย์ที่ปรึกษาร่วม.....