

CHAPTER VI

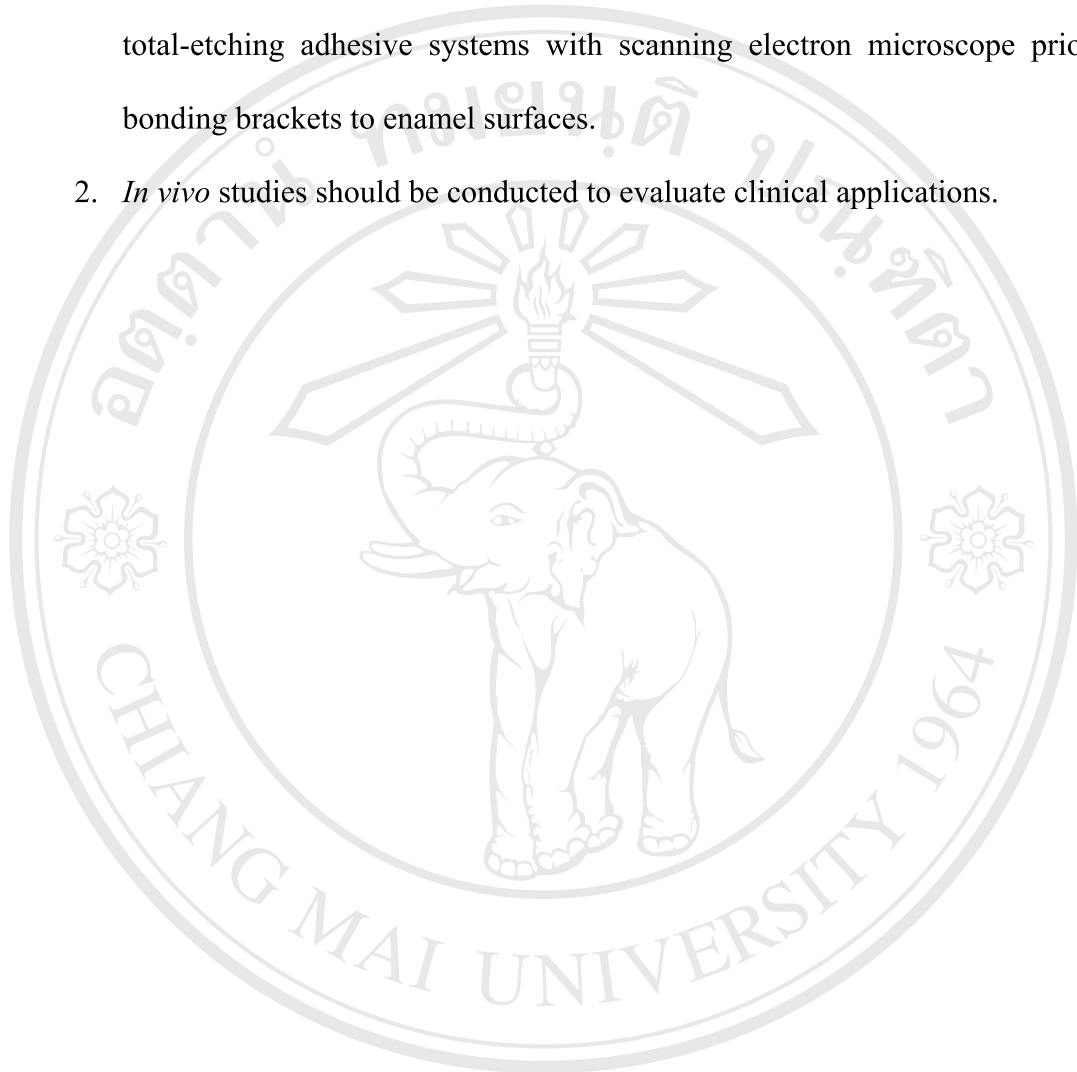
CONCLUSIONS

The purposes of this study were to compare the mean shear bond strength values of total-etching adhesive system, two-step self-etching and one-step self-etching adhesive systems for bonding uncoated and precoated ceramic brackets on tooth surfaces. This present study found as follows:

1. The mean shear bond strength values for the precoated ceramic brackets were significantly higher than those for the uncoated ceramic brackets with each adhesive system ($p<0.05$).
2. The mean shear bond strength values of the total-etching adhesive system were significantly higher than those of the two-step self-etching adhesive system and of the one-step self-etching adhesive system with either uncoated or precoated ceramic brackets ($p<0.05$).
3. The mean shear bond strength values of the two-step self-etching adhesive system were not significantly different from those of the one-step self-etching adhesive system with either the uncoated ceramic brackets or the precoated ceramic brackets.

Further studies

1. Evaluation of the enamel etching pattern of self-etching adhesive systems and total-etching adhesive systems with scanning electron microscope prior to bonding brackets to enamel surfaces.
2. *In vivo* studies should be conducted to evaluate clinical applications.



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