

6. Conclusion and Suggestions for Future Studies

6.1 Conclusion

Within the limitation of this study, the main conclusions can be made:

1. In different pH value whether acidic, alkaline or neutral, there was no statistical difference in microleakage between 3M Filtek™ Z 250 Universal Composite using Scotchbond etching gel and Adper Single Bond 2 and tooth surface.
2. Leakage present at both the occlusal and cervical margin in all groups, with no statistically significant differences.
3. More leakage was seen at the cervical area than the occlusal margin even though both margins were on enamel.

6.2 Suggestions for Future Studies

1. Similar study can be repeated but using different restorative materials such as nano filled composite, compomer, glass ionomer cement and resin modified glass ionomer cement
2. Similar study can be repeated but longer immersion time in respective pH should be used.
3. Similar study can be repeated using same immersion time but more frequent.
4. Clinical trials should be done to see the effect of pH on microleakage in patients with oral fluid imbalance such as Xerostomic patients or patient with acid reflux problem.