

CHAPTER SIX: CONCLUSION

6.1 Conclusion

Within the limitation of this study the following conclusions can be drawn:

- 1- Qat extract cause enamel demineralization.
- 2- Enamel demineralization on smooth enamel surface and at restoration interface for acid gel is significantly higher compare to qat extract.
- 3- There is no significant difference in the demineralization potential of 10% qat extract and 20% qat extract.
- 4- The depth of wall lesion was not affected by the location of cavity margins

6.2 Further Study

Further improvements will involve,

1. Further investigation needed to evaluate the effect of qat chewing on enamel and around restorations *in vivo*.
2. Improved standard experimental protocol for qat extracts procedure and acid gel technique to facilitate direct comparison between qat and other acids (much clinical trials).
3. Further investigations are required to determine tannins and fluoride contents in different qat concentration.