

Research Portfolio

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OVERVIEW

This research portfolio is submitted as part of the requirements for the degree Doctor of Clinical Dentistry. It consists of:

Introduction

The section provides background information relating to the main research project

Literature review

This review summarises relevant information about dental hard tissues, dentinal tubules and fluid, cariology and the factors that influence recurrent caries associated with indirect restorations.

Original research

This section includes:

- An expanded version of the background to the reported work
- A manuscript ready for submission to an appropriate journal. The paper describes the effect of dentinal tubule fluid on demineralization and remineralization associated with fixed restorations in an *in vitro* experimental system.

Draft manuscripts of four additional papers reporting associated work completed previously but not yet published are presented as background to the present study in the Appendix (for reference only).

Discussion and conclusion

This section reviews the progress toward understanding the effect of dentinal tubule fluid on demineralization and remineralization and suggests areas for future investigation

Other scholarly work

This section includes electronic versions of all of the other scholarly work undertaken during the three years of the Doctor of Clinical Dentistry programme.

DECLARATION

This work contains no material which has been accepted for the award of any other degree or diploma in any other university or other tertiary institution and to the best of my knowledge and belief, contains no material previously published or written by another person, except where due reference has been made in the text.

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My Anh Vu Thanh

Dated this 4th day of February 2011

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