RESEARCH PORTFOLIO

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Submitted in partial fulfilment of the requirements for the degree

Doctor of Clinical Dentistry in the discipline of Prosthodontics

August 2011
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NOTE:
Please refer to the list of presentations on page 78 for their availability online
OVERVIEW

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

Section one consists of:

Introduction

The section provides background information relating to the main research project.

Literature review

This review considers in vitro methods for the study of microleakage associated with composite resin restorations and includes: the definition of microleakage; changes in microleakage over time; the adverse effects of microleakage; alternative in vitro methods for assessing microleakage; some technical considerations in designing microleakage studies; and, the results of previous in vitro studies.

Original research

This work is presented as a manuscript ready for submission to Journal of Adhesive Dentistry. The paper investigates a non-destructive methodology for studying microleakage of resin composites and compares microleakage in a siloxane/oxirane-based resin composite (Filtek Silorane) with a conventional methacrylates-based material (Filtek Supreme XT).

Summary

This section reviews the progress toward understanding the effect of microleakage associated with composite restorations and suggests areas for future investigation.

Section two consists of 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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Chin Nguyen

Dated this 31st day of August 2011
ACKNOWLEDGEMENTS

The work leading to this scholarly work could not be achieved without the guidance, support and encouragement from a number of people and organizations.

I begin by thanking my supervisors, Professor Lindsay Richards, Associate Professor John Abbott and Dr Tom Berekally for their kind support and encouragement over the course of this study. In particular, I received important help from Professor Richards and A/Professor Abbott during the development of this piece of work.

The assistance I received from the staff of the Adelaide Microscopy, the staff of the CACDRC and the staff of the East Lab-School of Dentistry was valuable. Their willingness to support this study both in sample collection and material supply played an important part in the completion of the experimental phase. My thanks are also to Professor Richards, Dr Berekally, Dr Dudley, Dr Wilkinson and Dr Maiolo for their support in the development of the scholarly work of the section two. Thank you for assisting me with my education.

I am thankful to be chosen for the AIS scholarship-The University of Adelaide, which has helped me greatly achieve a degree of Doctor of Clinical Dentistry.

Finally, a special mention goes to my wife, Son Chau and two kids, Nguyen Xuan and Gia Phuc. Their love, sacrifice and understanding have encouraged me to go to Adelaide to complete this work. To them I owe the greatest debt of gratitude.