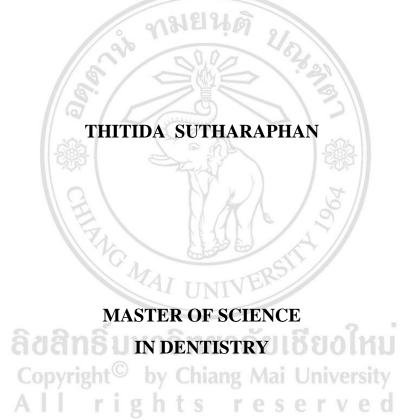
SUCCESS RATE OF PULPAL ANESTHESIA WITH SUPPLEMENTAL INTRALIGAMENTARY INJECTION AFTER FAILURE OF INFERIOR ALVEOLAR NERVE BLOCK IN YOUNG PERMANENT TEETH



GRADUATE SCHOOL
CHIANG MAI UNIVERSITY
SEPTEMBER 2014

SUCCESS RATE OF PULPAL ANESTHESIA WITH SUPPLEMENTAL INTRALIGAMENTARY INJECTION AFTER FAILURE OF INFERIOR ALVEOLAR NERVE BLOCK IN YOUNG PERMANENT TEETH

THITIDA SUTHARAPHAN

A THESIS SUBMITTED TO CHIANG MAI UNIVERSITY IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE
IN DENTISTRY

All rights reserved

GRADUATE SCHOOL, CHAING MAI UNIVERSITY
SEPTEMBER 2014

SUCCESS RATE OF PULPAL ANESTHESIA WITH SUPPLEMENTAL INTRALIGAMENTARY INJECTION AFTER FAILURE OF INFERIOR ALVEOLAR NERVE BLOCK IN YOUNG PERMANENT TEETH

THITIDA SUTHARAPHAN

THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE IN DENTISTRY

Examination Committee:	Advisory Committee:
6. Nehonda Chairman	
(Assoc. Prof. Dr. Siriruk Nakornchai)	(Lect. Papimon Chompu-inwai)
Tamida Srisuwan Member	Tam'de S
Papun (luongui mi Member	
(Lect. Papimon Chompu-inwai)	

19 September 2014 Copyright © by Chiang Mai University

ACKNOWLEDGEMENT

I would like to express my sincere gratitude to many people whose generosity and helpfulness have contributed to this project.

First of all, I would like to extend my appreciation to my thesis advisor, Dr. Papimon Chompu-inwai, Lecturer, Department of Orthodontics and Pediatric Dentistry, Faculty of Dentistry, Chiang Mai University, for her invaluable advices, patience, motivation, enthusiasm and immense knowledge. Her guidance helped me throughout the making and writing of this thesis as well as other aspects of my Master's course. Without a lot of her support and encouragement, this research would not have been finished and achieved the goal.

Besides my advisor, I am also indebted to Associate Professor Dr. Siriruk Nakornchai, Department of Pediatric Dentistry, Faculty of Dentistry, Mahidol University, chairperson, that I really appreciate her excellent advices in this thesis. I am most greatful to Dr. Tanida Srisuwan, Department of Restorative and Periodontics, and Dr. Patchanee Chuveera, Department of Family and Community Dentistry, Faculty of Dentistry, Chiang Mai University, for their helpful suggestions and supports.

My sincere thanks also go to Dr. Thanapat Sastraruji, researcher, Faculty of Dentistry, Chiang Mai University, for his excellent advices and helps on statistical analysis.

This research would not be possible without the research fund from the graduate school and Faculty of Dentistry, Chiang Mai University.

Besides the beloved professors, I also would like to thank my Vital pulp team; Dr. Issaraporn Koipanich, Dr. Suthida Theppimarn and Dr. Sophon Simprasert for their cooperation attribute to the research. I am also grateful to all teachers and Master degree students in Division of Pediatric Dentistry, Faculty of Dentistry, Chiang Mai University,

for their helpfulness in referring cases to this research and Pediatric Dental assistant team, for their assistance in clinical works.

Last but not least, I would like to express my profound gratitude and indebtedness to my beloved parents and relatives from Sutharaphan's family, for their warmness love, encouragements, and supports spiritually throughout my entire life. I would like to also give my special thanks to my friend, Dr. Nuttapon Thachooprakorn for his helpful in formating my thesis book and my boyfriend, Dr. Teerawat Suriyadet for his vigorous support in my time of need, always.

Without all their love and support I am sure that I would not have been able to achieve so much. This thesis is especially dedicated to them.

For any errors or inadequacies that may remain in this work, of course, the responsibility is entirely my own.

Thitida Sutharaphan

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่ Copyright[©] by Chiang Mai University All rights reserved