

**ASSOCIATION OF HLA GENOTYPES AND ABACAVIR AND NEVIRAPINE
AND STAVUDINE INDUCED ADVERSE DRUG REACTIONS:
A SYSTEMATIC REVIEW AND META- ANALYSES**

WIMONCHAT TANGAMORNSUKSAN

**A Thesis Submitted to the Graduate School of Naresuan University
in Partial Fulfillment of the Requirements
for the Master of Science Degree in Pharmacology**

July 2014

Copyright 2014 by Naresuan University

ACKNOWLEDGEMENT

I would like to express my very great appreciation to Assistant Professor Dr. Manupat Lohitnavy for his patient guidance, enthusiastic encouragement and valuable suggestions of my research work and my lifestyle.

I would like to thank and offer my sincere gratitude to Professor Dr.Nathorn Chaiyakunapruk for giving me a great opportunity to learn and work with him and his team.

I also would like to give special thanks to my co-advisors Assistant Professor Chuenjid Kongkaew, Professor C.Norman Scholfield, Associate Professor Brad Reisfeld Mrs.Ornrat Lohitnavy and Dr.Anunchai Assawamakin for their guidance, and helpful comments that were offered throughout the length of my study.

I would like to acknowledge Drs.Piyameth Dilokthornsakul, Rosarin Sruamsiri and Surasak Saokaew for their technical assistance and helpful suggestions.

I would like to offer my special thanks to Opa Tangpitukkul's scholarship and PERCH-CIC for their valuable and generous financial support. Without your support this thesis would not have been possible.

Last, but by no means least, I would like to give a special thanks to my family for their endless love, supporting and encouraging me with their best wishes.

Wimonchat Tangamornsuksan