## Contents

	Page
บทคัดย่อ	(3)
Abstract	(4)
Acknowledgements	(5)
Contents	(6)
List of Tables	(8)
List of Figures	(9)
Chapter	
1 Introduction	
List of Tables  List of Figures  Chapter  1 Introduction  Objectives  Definition of Terms  Review of Literature	3
Definition of Terms	4
Review of Literature	5
2 Methodology	
Study Design	12
Data Collection and Management	14
Statistical Analysis	15
Graphical Methods	21
3 Preliminary Data Analysis	
Summaries of All Variables of Interest	23
Association between the Outcome and the Determinants of Interest	27
Confounding	31

		Page
4	Statistical Modeling	
	Model Building	35
	Fitting the Model	40
	Logistic Modeling	44
5	Conclusions and Discussion	
	Conclusions	47
	Discussion	48
	Limitations	50
	Recommendations	51
	Bibliography	52
	Appendix	56
	Vitae	77
	Limitations  Recommendations  Bibliography  Appendix  Vitae	
	Dation of the second	

## **List of Tables**

Tab	ole	Page
1.1	Pulmonary TB features with stage of HIV infection	8
3.1	Variables and data codings	24
3.2	Crude odds ratio and p-values for associations between HIV status and	
	demographic variables	28
3.3	Crude odds ratios and p-values for associations between disease	
	characteristics and HIV status	29
3.4	Crude odds ratios and p-values for associations between HIV status and	
	intervening variables	30
3.5	Adjusted odds ratios and p-values for all significant variables	31
	Prince of Pattani Camprus	

## **List of Figures**

Figure	Page
1.1 Schematic diagram representation of HIV status in pulmonary TB patients	11
2.1 Relationships of data structure	15
3.1 Summaries of all variables in comparison group	25
3.2 Summaries of all variables in study group	26
3.3 Factors association with HIV infection adjusted for age or gender	32
4.1 Full model of demographic factors and intervening variables	36
4.2 Significant demographic factors and intervening variables	37
4.3 Full model of characteristics of disease	38
4.4 Significant characteristics of disease	39
4.5 Full logistic model with selected variables of interest	40
4.6 The model with all significant variables	41
4.7 The penultimate model	42
4.8 The final model	43