

Contents

	Page
Abstract	iii
Acknowledgements	vii
Contents	viii
List of Tables	x
List of Figures	xi
Chapter	
1 Introduction	1
1.1 Rationale for study	2
1.2 Literature review	3
1.3 Definition of terms	8
1.4 Objectives and plan of thesis	8
2 Methodology	10
2.1 Data sources and data management	10
2.2 Study variables	11
2.3 Statistical methods	14
<i>Univariate analysis</i>	14
<i>Logistic regression model</i>	14
<i>Log-transformed linear regression model</i>	15
<i>Poisson and negative binomial regression model</i>	16

Chapter	Page
2.4 Graphical display	17
<i>Thematic map</i>	17
<i>Histograms and bar charts</i>	18
<i>Residual plot</i>	18
<i>Confidence interval plot</i>	19
3 Study results	20
3.1 The first study	20
3.2 The second study	31
4 Conclusion and discussion	48
4.1 Overall findings	48
4.2 Discussion of the implicated results	58
4.3 Limitations and suggestions for further study	59
References	61
Vitae	69

List of Tables

Table	Page
2.1 Regions used in analysis of victims of terrorism in southern Thailand	12
4.1 Results for models fitted to $\ln(\text{LOS}+1)$.	50
4.2 Characteristics of the Muslim victims and incidence rates per 100,000 populations classified by region and year which caused injury or death	52
4.3 Characteristics of the Muslim victims and incidence rates per 100,000 populations classified by gender and age-group which caused injury or death	52-53

List of Figures

Figure	Page
2.1 Path diagrams for variables used in the two studies	13
4.1 Distribution of $\ln(\text{LOS}+1)$ for hospital mortality in central Thailand 1999 – 2007	49
4.2 Normal score plot against Standardized residual	51
4.3 Risk of becoming a Muslim victim classified by gender and age group	55
4.4 Three risk groups of a Muslim victim classified by region	56
4.5 Stacked bar charts in three color-coded risk groups of a Muslim victim classified by region	57