

TABLE OF CONTENTS

RATIFICATION PAGE	Error! Bookmark not defined.
STATEMENT OF ORIGINALITY	iii
ABSTRACT	vi
LIST OF TABLE	x
LIST OF FIGURE	xi
List of Abbreviations	xiii
CHAPTER I INTRODUCTION	1
1.1 Background	1
1.2 Problem Formulation	2
1.3 Objective	3
1.4 Research Benefit	3
1.4.1 Theoretical Benefit	3
1.4.2 Practical Benefit.....	3
1.5 Research Authenticity	4
CHAPTER 2 LITERATURE REVIEW	7
2.1 Biliary Atresia	7
2.1.1 Cholestasis in Biliary Atresia	9
2.2 Kasai Surgery	10
2.3 Prognosis Factor of Successful KPE Surgery	12
2.3.1 Age of Kasai Surgery Conducted and Jaundice Clearance.....	12
2.3.2 Post-Operative Biliary Duct Proliferation	14
2.3.3 CMV Infection in Biliary Atresia Patient	16
2.3.4 Correlation Between Biliary Duct Proliferation and CMV Infection...	18
2.4 Theoretical Framework	20
2.5 Conceptual Framework	21
2.6 Hypothesis	21
CHAPTER 3 METHODOLOGY	23
3.1 Research Design	23
3.2 Time and Place of Research	23

3.3 Population	23
3.4 Sample Size.....	24
3.5 Research Instrument.....	24
3.6 Variable and Operational Definition	25
3.6.1 Research Variable	25
3.6.2 Operational Definition	25
3.7 Data Analysis Techniques.....	26
3.8 Ethical Clearance.....	26
3.9 Research Schedule.....	26
CHAPTER IV RESULT AND DISCUSSION.....	28
4.1 Result	28
4.2 Discussion	35
CHAPTER V CONCLUSION AND SUGGESTION	40
5.1 Conclusion	40
5.2 Suggestion.....	41
REFERENCES.....	43
ATTACHMENT.....	47

LIST OF TABLES

Table 1. Research Authenticity	4
Table 2. Research Schedule.....	26
Table 3. Basic Characteristics of Research Subjects.....	29
Table 4. Optimal Cut-off Point of ROC Curve	31
Table 5. Bivariate Analysis of Patient's Baseline Characteristics with Bile Duct Proliferation.....	32
Table 6. Multivariate Analysis of Patient's Baseline Characteristics with Bile Duct Proliferation.....	34

LIST OF FIGURES

Figure 1. Theoretical Framework.....	20
Figure 2. Conceptual Framework.....	21
Figure 3. Sample Search Flow	28
Figure 4. ROC Curve Characteristics Against Bile Duct Proliferation.....	31

LIST OF ATTACHMENT

Attachment 1. Ethical Committee Letter	47
Attachment 2. Basic Characteristics of Research Subjects	48
Attachment 3. Variable Association with Bile Duct Proliferation	50
Attachment 4. Multivariable Binomial Logistic Regression on Bile Duct Proliferation.....	56

List of Abbreviations

AB/BA	: Atresia Bilier/Billiary Atresia
CMV	: Cytomegalovirus
KPE	: Kasai Portoenterostomy/Kasai Sugery