

**TABLE OF CONTENT**

	Page
FRONT COVER	i
LEMBAR PENGESAHAN	ii
SURAT PERNYATAAN BEBAS PLAGIARISME	iii
ACKNOWLEDGEMENT	iv
ABSTRACT	v
ABSTRAK	vi
TABLE OF CONTENT	vii
LIST OF FIGURES	ix
LIST OF TABLES	ix
LIST OF APPENDIX	ix
LIST OF ABBREVIATIONS	x
CHAPTER I - FORWARD	1
1.1 Background	1
1.2. Research Questions	3
1.3 Research Objectives	3
1.3.1 General Objective	3
1.3.2 Specific Objectives	4
CHAPTER II - LITERATURE REVIEW	5
2.1 Definition of pharyngitis in adults	5
2.2 Bacteria causing pharyngitis	5
2.3 <i>Streptococcus pyogenes</i>	6
2.3.1 Pathophysiology of <i>S. pyogenes</i> causing acute pharyngitis	7
2.3.2 Antibiotic resistance	8
2.3.3 Mechanism of Resistance of <i>S.pyogenes</i>	9
2.3.4 Antimicrobial susceptibility testing (AST)	10
2.3.5 Situation in Indonesia	12
2.4 Ethnicity	12
2.4.1 “Personalized” oral bacteria	13
2.5 Non-Indonesians in Jakarta	14
2.6 Environmental and non-infectious factors in the etiology of pharyngitis	14
2.6.1 Jakarta’s Traffic	14
2.6.2. Occupational or hazard-associated irritants	13
CHAPTER III - CONCEPTUAL FRAMEWORK AND RESEARCH HYPOTHESIS	16
3.1 Conceptual Framework	16
CHAPTER IV- METHODOLOGY	17



4.1 Study Design	17
4.2 Place and Time of research	17
4.3 Study population/Sample size	17
4.3.1 Inclusion Criteria	18
4.3.2 Exclusion Criteria	18
4.3.3 Sampling method	18
4.4 Variables	19
4.5 Data extraction and data collection	21
4.5.1 Instrument	22
4.6 Data Processing	22
4.7 Ethical Consideration	23
4.8 Strength of this study	23
4.9 Limitation of this study	23
CHAPTER V - RESULT	25
5.1 Demographics	25
5.2 Clinical Presentation	26
5.3 Bacteria	28
5.4. Antibiotic Resistance	31
CHAPTER VI - DISCUSSION	33
6.1 Discussion	28
6.2 Weakness of the study	41
CHAPTER VII - CONCLUSION	42
7.1 Conclusion	35
REFERENCES	43
APPENDIX	47