

TABLE OF CONTENTS

LIST OF FIGURES	vi
LIST OF TABLES	vii
LIST OF ABBREVIATIONS	ix
DECLARATION OF AUTHENTICITY	x
ACKNOWLEDGEMENT	xi
ABSTRACT.....	xii
CHAPTER I. INTRODUCTION.....	1
A. Background.....	1
B. Relevance	5
C. Problem Statement	6
D. Research Objectives.....	6
E. Research Impact	7
F. Originality.....	7
CHAPTER II. LITERATURE REVIEW	11
A. Literature Review.....	11
B. Theoretical Framework	19
C. Conceptual Framework	20
D. Research Questions	21
CHAPTER III. RESEARCH METHOD	21
A. Research Type and Design.....	21
B. Research Settings and Time	22
C. Research Subjects.....	22
D. Identification of Research Variables.....	25
E. Operational Definition of Variables	27
F. Data Collection and Research Instrument	29

G. Data Analysis Methods	30
H. Research Ethics	31
I. Strength and Limitation of Research	32
J. Research Process	32
CHAPTER IV. RESULTS AND DISCUSSION	33
A. Results.....	33
B. Discussion	68
CHAPTER V. CONCLUSION AND RECOMMENDATIONS	71
A. Conclusion	71
B. Recommendations	72
BIBLIOGRAPHY	73
APPENDIX.....	79
A. Informed Consent for Quantitative Study (English Language)	79
B. Informed Consent for Quantitative Study (Burmese Language)	83
C. Informed Consent for Quantitative Study (Kachin/ Jinghpaw Language).....	87
D. Informed Consent for Qualitative Study (English Language)	92
E. Informed Consent for Qualitative Study (Burmese Language).....	96
F. Informed Consent for Qualitative Study (Kachin/ Jinghpaw Language)	100
G. Questionnaire Form for Quantitative Study (English Language)	105
H. Questionnaire Form for Quantitative Study (Burmese Language)	115
I. Questionnaire Form for Quantitative Study (Kachin/ Jinghpaw Language).....	128
J. Questionnaire Form for Qualitative Study (English Language)	141
K. Questionnaire Form for Qualitative Study (Burmese Language)	145
L. Questionnaire Form for Qualitative Study (Kachin/ Jinghpaw Language).....	153
M. Qualitative Data Matrix.....	162
N. Ethical Approval Letters	177

LIST OF FIGURES

Figure 1. National malaria treatment guidelines (DOPH, 2019).....	2
Figure 2. The trend in the composition of malaria species in Myanmar.....	4
Figure 3. The trend in the composition of malaria species in Waingmaw Township.....	4
Figure 4. The multidimensional adherence model (WHO, 2003).....	19
Figure 5. Conceptual framework on influencing factors affecting adherence to the 14-day primaquine treatment regimen in Plasmodium vivax infection.....	20
Figure 6. Reasons for non-adherence to the 14-day primaquine treatment regimen	34
Figure 7. Distributions of the supportive and non-supportive scores of the patient-related factors among the non-adherence and adherence groups	36
Figure 8. Distributions of the supportive and non-supportive scores of the therapy-related factors among the non-adherence and adherence groups	36
Figure 9. Distributions of the supportive and non-supportive scores of the health-condition-related factors among the non-adherence and adherence groups.....	37
Figure 10. Distributions of the supportive and non-supportive scores of the socioeconomic factors among the non-adherence and adherence groups	37
Figure 11. Distributions of the supportive and non-supportive scores of the healthcare team and system-related factors among the non-adherence and adherence groups	38

LIST OF TABLES

Table 1.	Scientific publications related to influencing factors affecting the adherence to the primaquine treatment regimen in Plasmodium vivax infection	8
Table 2.	Evidences on influencing factors affecting the adherence to the primaquine treatment regimen in Plasmodium vivax infection.....	13
Table 3.	List of participants for the qualitative study approach	24
Table 4.	Operational definitions of research variables for the quantitative research design.	27
Table 5.	Summary statistics between the general characteristics of the Plasmodium vivax- infected patients and the adherence to the 14-day primaquine treatment regimen .	35
Table 6.	Logistic regression analyses quantifying the associations of the factors with the adherence to the 14-day primaquine treatment regimen	39
Table 7.	Summary statistics between the patient-related factors and the adherence to the 14-day primaquine treatment regimen in Waingmaw Township during April to June, 2023	42
Table 8.	Summary of the qualitative study results of the patient-related factors affecting the adherence to the 14-day primaquine treatment regimen in Waingmaw Township during April to June, 2023.....	47
Table 9.	Summary statistics between the therapy-related factors and the adherence to the 14-day primaquine treatment regimen in Waingmaw Township during April to June, 2023	48
Table 10.	Summary of the qualitative study results of the therapy-related factors affecting the adherence to the 14-day primaquine treatment regimen in Waingmaw Township during April to June, 2023.....	50
Table 11.	Summary statistics between the health-condition-related factors and the adherence to the 14-day primaquine treatment regimen in Waingmaw Township during April to June, 2023.....	51
Table 12.	Summary of the qualitative study results of the health-condition-related factors affecting the adherence to the 14-day primaquine treatment regimen in Waingmaw Township during April to June, 2023.....	52
Table 13.	Summary statistics between the socioeconomic factors and the adherence to the 14-day primaquine treatment regimen in Waingmaw Township during April to June, 2023	54



Table 14. Summary of the qualitative study results of the socioeconomic factors affecting the adherence to the 14-day primaquine treatment regimen in Waingmaw Township during April to June, 2023.....	57
Table 15. Summary statistics between the healthcare team and system-related factors and the adherence to the 14-day primaquine treatment regimen in Waingmaw Township during April to June, 2023.....	59
Table 16. Summary of the qualitative study results of the healthcare team and system-related factors affecting the adherence to the 14-day primaquine treatment regimen in Waingmaw Township during April to June, 2023	63
Table 17. Summary of the qualitative study results of the potential strategies to improve the adherence to the 14-day primaquine treatment regimen in Waingmaw Township during April to June, 2023.....	67