

CONTENTS

	Page
ABSTRACT IN THAI.....	iv
ABSTRACT IN ENGLISH	v
ACKNOWLEDGEMENTS	vi
CONTENTS.....	vii
LIST OF TABLES	x
LIST OF FIGURES	xi
LIST OF ABBREVIATIONS.....	xiii
CHAPTER I INTRODUCTION.....	1
1.1 Background and Rationale	1
1.2 Research Questions	4
1.3 Research Hypotheses.....	5
1.4 Research Objectives	5
1.5 Conceptual Framework	6
1.6 Operational Definitions	7
CHAPTER II LITERATURE REVIEW	10
2.1. Definition of foot pain	10
2.2. Definition of pre-retirement aged	11
2.3. Prevalence of foot pain in pre-retirement aged	11
2.4. Pathophysiology of foot pain.....	12
2.5. Quality of life	12
2.6. Factors associated with foot pain	13
2.6.1 Individual risk factors	13
2.6.2 Work-related physical factors	16
2.6.3 Health behavioral factors	19
2.6.4 Anthropometric Variables.....	22
CHAPTER III RESEARCH METHODOLOGY	26

	Page
3.1. Research design.....	26
3.2. Study area	26
3.3. Study population.....	26
3.4. Sampling technique	26
3.4.1 Inclusion criteria of the subjects	26
3.4.2 Exclusion criteria of the subjects	26
3.5. Sample size.....	27
3.6. Measurement Tools	28
3.6.1 Subjective Examination	28
3.6.2 Physical Examination.....	28
3.7. Validity and Reliability test.....	33
3.7.1 Validity test.....	33
3.7.2 Reliability test	33
3.8. Research Procedure	34
3.9. Outcome measurement	36
3.9.1 Dependent variable	36
3.9.2 Independent variable	36
3.10. Data Analysis.....	37
3.10.1 Descriptive Statistics.....	37
3.10.2 Inferential Statistics	37
3.11. Ethical Consideration	37
CHAPTER IV RESULT	38
4.1. Demographic data of participants.....	38
4.2. The comparison in Health-related Quality of life between two groups	40
4.3. The association between particular factors and foot pain	41
4.4. Factors associated with foot pain in pre-retirement aged.....	48
CHAPTER V DISCUSSION.....	50

	Page
REFERENCES	61
APPENDICES	69
APPENDIX A Time Schedule	70
APPENDIX B Budget	71
APPENDIX C Screening Test.....	72
APPENDIX D Questionnaire.....	74
APPENDIX E Physical Examination Form	92
APPENDIX F Approval Ethical consideration committee	95
APPENDIX G Consent form.....	96
APPENDIX H Testing of Research inspection tools	98
BIOGRAPHY	106

LIST OF TABLES

	Page
Table 1 Characteristics of Chulalongkorn University personnel (n=221)	39
Table 2 Health-related quality of life of Chulalongkorn personnel (n=217)	40
Table 3 The comparison of related factors (categorical data) between participants with foot pain and participants without foot pain.....	43
Table 4 The comparison of related factors (continuous data) between participants with foot pain and participants without foot pain.....	47
Table 5 The odds ratio (OR) and 95% confidence interval (CI) of factors associated with foot pain in the final model.....	49
Table 6 The coefficient level and IOC from the reliability and the content validity test of Screening questionnaire.	99
Table 7 The coefficient level and IOC from the reliability and the content validity test of Self-reported questionnaire.	100
Table 8 The coefficient level from the reliability test of Physical examination. ...	102

LIST OF FIGURES

	Page
Figure 1 Conceptual Framework of the present study	6
Figure 2 Localized areas of foot pain.....	10
Figure 3 Sampling technique in the present study	27
Figure 4 Scoring assessment in each item of Foot posture Index (FPI)	29
Figure 5 Static footprint on Podograph.....	30
Figure 6 The Satheli's arch index measurement.....	31
Figure 7 Paper grip test (de Win et al., 2002).....	32
Figure 8 Research Procedure in the present study	35

LIST OF ABBREVIATIONS

BMI	Body mass Index
CI	Confidence Interval
FHFS	Foot health functional status
FPI	Foot posture Index
ICC	Intraclass correlation coefficient
IOC	Index of item-Objective Congruence
MCS	Mental component summary
MFPDI	Manchester foot pain and disability Index
MPJ	Metatarsophalangeal joint
MSDs	Musculoskeletal disorders
OR	Odd ratio
PCS	Physical component summary
PGT1	Paper grip test (at great toe)
PGT2	Paper grip test (at lesser toes)
PSI	Pearson-fit separation Index
SAI	Staheli's arch index
SF-12	12-item Short-form health survey
WHR	Waist hip ratio