KNOWLEDGE AND ATTITUDE TOWARD THE SELECTION OF HEALTH INSURANCE TYPE AFTER RETIREMENT IN RATCHABURI PROVINCE THAILAND



บทคัดย่อและแฟ้มข้อมูลฉบับเต็มของวิทยานิพนธ์ตั้งแต่ปีการศึกษา 2554 ที่ให้บริการในคลังปัญญาจุฬาฯ (CUIR) เป็นแฟ้มข้อมูลของนิสิตเจ้าของวิทยานิพนธ์ ที่ส่งผ่านทางบัณฑิตวิทยาลัย

The abstract and full text of theses from the academic year 2011 in Chulalongkorn University Intellectual Repository (CUIR) are the thesis authors' files submitted through the University Graduate School.

A Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of Master of Public Health Program in Public Health College of Public Health Sciences
Chulalongkorn University
Academic Year 2015
Copyright of Chulalongkorn University

ความรู้และเจตคติต่อการเลือกใช้สิทธิ์การรักษาพยาบาลหลังเกษียณ จังหวัดราชบุรี ประเทศไทย

นางสาวสุพิชชา สำเร็จผล

วิทยานิพนธ์นี้เป็นส่วนหนึ่งของการศึกษาตามหลักสูตรปริญญาสาธารณสุขศาสตรมหาบัณฑิต สาขาวิชาสาธารณสุขศาสตร์ วิทยาลัยวิทยาศาสตร์สาธารณสุข จุฬาลงกรณ์มหาวิทยาลัย ปีการศึกษา 2558 ลิขสิทธิ์ของจุฬาลงกรณ์มหาวิทยาลัย

Thesis T	Title Title	KNOWLEDGE AND ATTITUDE TOWARD THE SELECTION OF HEALTH INSURANCE TYPE AFTER RETIREMENT IN RATCHABURI PROVINCE THAILAND			
Ву		Miss Supitcha Sumretphol			
Field of Study		Public Health			
Thesis Advisor		Associate Professor Prathurng Hongsranagon, Ph.D.			
	ity in Partial Fulfillmen	of Public Health Sciences, Chulalongkorn tof the Requirements for the Master's Degree Dean of the College of Public Health Sciences Pongpanich, Ph.D.)			
THESIS	COMMITTEE	Chairman			
	(Assistant Professor Kanchana Rungsihirunrat, Ph.D.)				
	Thesis Advisor				
	(Associate Professor Prathurng Hongsranagon, Ph.D.)				
		External Examiner			
	(Wongwat Liulak, M.L).)รณ์มหาวิทยาลัย			

สุพิชชา สำเร็จผล: ความรู้และเจตคติต่อการเลือกใช้สิทธิ์การรักษาพยาบาลหลังเกษียณ จังหวัดราชบุรี ประเทศไทย (KNOWLEDGE AND ATTITUDE TOWARD THE SELECTION OF HEALTH INSURANCE TYPE AFTER RETIREMENT IN RATCHABURI PROVINCE THAILAND) อ.ที่ปรึกษาวิทยานิพนธ์หลัก: รศ. คร. ประเทือง หงสรานากร, 90 หน้า.

งานวิจัยนี้เป็นการศึกษาภาคตัดขวางเกี่ยวกับความรู้และเจตคติต่อการเลือกใช้สิทธิ์การ รักษาพยาบาลหลังเกษียณ ในจังหวัดราชบุรี วัตถุประสงค์ในการวิจัยเพื่ออธิบายและตรวจสอบ ปัจจัยที่มีความสัมพันธ์กับการเลือกใช้สิทธิ์การรักษาพยาบาล กลุ่มตัวอย่างที่ใช้ในการศึกษาครั้งนี้ คือกลุ่มประชากรที่มีอายุระหว่าง 50 ถึง 59 ปี และอยู่ภายใต้สิทธิ์หลักประกันสุขภาพถ้วนหน้าที่ อาศัยอยู่ในจังหวัดราชบุรีจำนวน 430 คน คำเนินการรวบรวมเก็บข้อมูล โดยใช้แบบสอบถาม ประกอบไปด้วยข้อมูลเกี่ยวกับลักษณะทั่วไปของบุคคล ข้อมูลเกี่ยวกับแนวความรู้เกี่ยวกับสิทธิ์ ประกันสุขภาพถ้วนหน้าและประกันชีวิตภาคเอกชน รวมไปถึงเจตคติและการเลือกใช้สิทธิ์การ รักษาพยาบาล คำเนินการเก็บข้อมูลระหว่างเคือนเมษายนและพฤษภาคม พ.ศ. 2559 สถิติที่ใช้ บรรยายข้อมูลใช้สถิติเชิงพรรณนา และวิเคราะห์หาความสัมพันธ์ระหว่างคุณลักษณะทั่วไปส่วน บุคคล คะแนนความรู้และเจตคติต่อการเลือกใช้สิทธิ์การรักษาพยาบาลโดยใช้สถิติใค-สแควร์เพื่อ การตรวจสอบ

การศึกษาพบว่า ข้อมูลของกลุ่มตัวอย่างอยู่ในกลุ่มอายุระหว่าง 50 ถึง 53 ปี (ร้อยละ 40.9) เป็นเพศหญิง (ร้อยละ 61.2) จบการศึกษาในระดับประถมศึกษา (ร้อยละ 72.3) มีอาชีพ ลูกจ้าง (ร้อยละ 36.7) รายได้เฉลี่ยต่อเดือนส่วนบุคคลอยู่ในกลุ่มน้อยกว่า 15,000 บาท (ร้อยละ 54.0) รายได้ครัวเรือนอยู่ในกลุ่ม 15,001 ถึง 20,000 บาท (ร้อยละ 30.0) รายจ่ายเฉลี่ยต่อเดือนอยู่ ในกลุ่มน้อยกว่า 10,000 บาท (ร้อยละ 43.3) กลุ่มตัวอย่างส่วนใหญ่สมรสแล้ว (ร้อยละ 71.2) มี บุตร 2 คน (ร้อยละ 46.3) โดยมีระดับความรู้อยู่ในระดับต่ำและ มีเจตคติต่อการเลือกสิทธิ์ การรักษาพยาบาลอยู่ในระดับสูง กลุ่มตัวอย่างประมาณครึ่งหนึ่งจะเลือกใช้สิทธิ์ประกันสุขภาพถ้วน หน้าและอีกครึ่งหนึ่งจะใช้ประกันสุขภาพถ้วน คะแนนระหว่างความรู้และเจตคติมี ความสัมพันธ์กับการเลือกใช้สิทธิ์การรักษาพยาบาล (p-value <0.05) งานวิจัยนี้ให้ข้อสรุปว่า ความรู้และเจตคติมีผลต่อการเลือกใช้สิทธิ์การรักษาพยาบาล

สาขาวิชา	สาชารณสุขศาสตร์	ลายมือชื่อนิสิต
ปีการศึกษา	2558	ลายมือชื่อ อ.ที่ปรึกษาหลัก

5878830653 : MAJOR PUBLIC HEALTH

KEYWORDS: UNIVERSAL COVERAGE SCHEME, PRIVATE HEALTH INSURANCE, RETIREMENT, THAILAND

> SUPITCHA SUMRETPHOL: KNOWLEDGE AND ATTITUDE TOWARD SELECTION OF HEALTH INSURANCE **TYPE** RETIREMENT IN RATCHABURI PROVINCE THAILAND. ADVISOR: ASSOC. PROF. PRATHURNG HONGSRANAGON, Ph.D., 90 pp.

This research was a cross-sectional research aimed at studying the knowledge and attitude toward the selection of health insurance type after retirement in Ratchaburi province. The research objectives were to describe and to find the factors associated with the selection of health insurance type. The research samples were those between 50-59 years old who were under Universal Coverage Scheme (UCS) and had been living in Ratchaburi province. Total samples were 430. Data collection was done by the use of questionnaire incorporating information on general personal data, on knowledge about Universal Coverage Scheme and private health insurance, and on attitude toward the selection of health insurance type. Data was collected during April and May 2016. The statistics in use were descriptive statistics and the Chi-square test to find an association between general personal data, knowledge scores, and attitude scores toward the selection of health insurance type.

The study found that the sample age was between 50 to 53 years old (40.9%), 61.2% were female, 72.3% finished their primary school, 36.7% were occupied as an employee, 54.0% had their personal average monthly income less than 15,000 baht. 30.0% of the samples had their average family monthly income between 15,001-20,000 baht, 43.3% had their average monthly expense less than 10,000 baht. Most of them were married (71.2%) with 2 children (46.3%). The level of knowledge was poor and the attitude level toward the selection of health insurance type was high. About half of the respondents would continue to use UCS after retirement and the other half would also use private health insurance. The result revealed that scores of knowledge and attitude were associated with the selection (p-value < 0.05). It was concluded that knowledge and attitude had an effect on the selection of health insurance type. Field of Study: Public Health Student's Signature

Academic Year: 2015 Advisor's Signature

ACKNOWLEDGEMENTS

This research has been completed successfully with excellent advice from Assoc. Prof. Dr. Prathurng Hongsranagon whom must be thanked for suggestion all time about research and mental support to study during the entire process of the research.

I would like to thanks to Miss Kanya Chunpol for statistics supporting and suggestion to analyze my research.

Grateful thanks to my advisory committee Asst. Prof. Dr. Kanchana Rungsihirunrat, and external examiner Dr. Wongwat Liulak from Bangkok Metropolitan Administration for their advice which has enabled me to develop my thesis.

I would like to express my sincere gratitude to Chumpon Piamsomboon M.D., Thitipoom Auraumnuay M.D., and Kanchana Chinsumran Ph.D. for their kind review and revision of my research questionnaire.

Grateful thanks to every sample in my data collection, moreover, thanks to Nhongree's health volunteers for help during data collection.

Moreover, I would like to extend my thanks to Mr. Surapon and Mrs. Nittaya Sumretphol. They are my parents who have been supporting me mentally. Grateful thanks also to others who supported me during entire process of this research.

Any values and advantages originated from this thesis, the researcher would like to announce them as gratitude to father, mother, advisor, every teacher and supporters.

Finally, if there are any mistakes in this study, the researcher would like to apologize for them.

CONTENTS

Page
THAI ABSTRACTiv
ENGLISH ABSTRACTv
ACKNOWLEDGEMENTSvi
CONTENTSvii
LIST OF TABLES x
LIST OF FIGURESxi
ABBREVIATIONxii
CHAPTER I
INTRODUCTION1
1.1 Background and rationale1
1.2 Research Questions4
1.3 Research Objectives4
1.3.1 General Objective4
1.3.2 Specific Objectives
1.4 Conceptual Framework
1.5 Operation Definition
CHAPTER II8
LITERATURE REVIEWS 8
2.1 Aging population8
2.2 Health Scheme in Thailand
2.2.1 Civil Service Medical Benefit Scheme
2.2.2 Social Security Scheme
2.2.3 Universal Coverage Scheme
2.2.4 Private Health Insurance
2.3 Social Health Insurance in other countries
2.3.1 Singapore
2.3.2 Republic of Korea
2.3.3 Japan

	Page
2.4 Situation in Ratchaburi province	25
2.5 Theory and concepts	25
2.5.1 Socio-demographic	25
2.5.2 Knowledge, attitude and practice	26
CHAPTER III2	29
METHODOLODY	29
3.1 Research Design	29
3.2 Study Area	29
3.3 Study Population	29
3.4 Sampling Method	29
3.4.1 Inclusion criteria	29
3.4.2 Exclusion criteria	
3.5 Sample Size	
3.6 Measurement tool	31
3.7 Data Analysis	32
3.8 Ethical Consideration	32
3.9 Validity Test	33
3.10 Reliability Test	33
3.11 Data collection	
3.12 Expected benefits	33
3.13 Financial Budget	35
3.14 Time Schedule	36
CHAPTER IV	37
RESULTS	37
CHAPTER V	53
SUMMARY, DISCUSSION, AND RECOMMENDATIONS	53
5.1 Summary	54
5.2 Discussion	55
5.2.1 Socio-demographic characteristics	55

		Page
5.2.2	Knowledge, attitude, practice, and their association6	56
5.3 Recomn	nendations6	58
5.3.1	Recommendation on research outcome	58
5.3.2	Recommendation to further research	70
REFERENCES	7	71
APPENDIX	7	16
VITΔ		90



LIST OF TABLES

Table 1: Number and percentage of the elderly, by age group (aged 60-69, 70 79,
and over 80), gender, and area of residence during 2010 – 2040
Table 2: Social health protection schemes have covered all Thai citizen since
2002
Table 3: Description of socio-demographic data
Table 4: Knowledge, attitude, and practice outcome
Table 5: Description of each knowledge question
Table 6: Description of each attitude question
Table 7: Description of each practice questions
Table 8: Knowledge and attitude levels
Table 9: Relationship between the respondents' socio-demographic data and their
practice/selection
Table 10: Relationship between each knowledge question and their
practice/selection
Table 11: Relationship between each part of attitude and the practice/selection 58
Table 12: Relationships between knowledge, attitude, and practice/selection 62

LIST OF FIGURES

Figure 1 Conceptual framework of knowledge, attitude toward the selection of	
health insurance type after retirement in Ratchaburi province	6
Figure 2 Population pyramids of the less and more developed regions: 1970, 201	3,
and 2050	10



ABBREVIATION

ADLs All Activities Daily Lives

CSMBS Civil Servant Medical Benefit Scheme

DRGs Diagnosis-related group

FTR Fertility rate

LIC Low Income Card

MoPH Ministry of Public Health

NHSO National Health Security Office

SHI Social Health Insurance

SSS Social Security Scheme

UCS Universal Coverage Scheme

VHC Voluntary Health Card

CHAPTER I

INTRODUCTION

1.1 Background and rationale

The challenges faced by industrial countries in the west and Japan with the perspective retirement of the "Baby boom" generation are well recognized (Heller, 2006). The enhancement of healthcare program to meet ultimate retirement needs is drawing increased attention in most countries in the world including Thailand in Asia. Despite the population aged over 65 are under 10% of the total population, it is inevitably increasing across Asia and estimates to cross 10% by 2015 in Thailand (Gavin, 2009).

During past several decades, Thailand has been one of the most successful countries in bringing down its fertility level and increased life expectancy at birth from 55.2 years to 69.9 years for men and 61.8 years to 74.9 years for women. But studies projects the rapid fertility reduction will have an inevitable demographic consequences, given the population is aging (UNFPA, 2006). Thailand has now shifted to an "Aging Society". The older population or the population aged 60 and above increased from 1.5 million in 1960 to approximately 7.4 million in 2008, and is expected to be 17.7 million in 2030 (Siriphanich, 2009). Furthermore, there is large and rapid increase in the extreme age group of 80 years and older (Knodel John & Chayovan, 2008), which during 2000 to 2050, is projected to increase by 686% compared to 227% increase in older adult population (Kespichayawattana & Jitapunkul, 2009).

The increase in the share of older people entails increase in chronically ill patients having diabetes, hypertension and cardiovascular disease. Hypertension, endocrine nutritional and metabolic disorder and diabetes are found as the first three causes for hospitalization of older people (Siriphanich, 2009). The rapid growth in the population over 80 that are more prone to chronic conditions that lead to disability and the need for healthcare/long-term care (Henderson James W, 2003).

As the numbers of the older population that need healthcare and long-term care services increase, the public health insurance should be adjusted and reformed in order to meet the demands of people after retirement (Kespichayawattana & Jitapunkul, 2009). Currently, Thai citizens have access to public health insurance through one of three programs: the Civil Servant Medical Benefit Scheme (CSMBS), the Social Security Scheme (SSS) or the Social Health Insurance (SHI), and the Universal Coverage Scheme (UCS). The UCS is compulsory for all Thai citizens that are not insured by another public insurance scheme. The UCS replaces all previous government health insurance scheme from 2001, namely the Low Income Card (LIC) scheme for the poor, the Voluntary Health Card (VHC), the disabled, the elderly, and children aged less than 12 years. The CSMBS covers civil servants and their immediate family members, including spouse, parents, and up to three children under the age 20 years. It also cover retirees and their dependents. The SSS provide mandatory coverage for workers in the private business since 1991, when it applied to firms with more than 20 workers, its coverage has increased, and since 2010 it is mandatory for firms with more than one worker and for the self-employed. The number of workers insured increased from 3.2 in 1991 to 9.5 million in early of 2010, excluding dependents (Antos & Taylor, 2007; Kespichayawattana & Jitapunkul,

2009). Presently, there are both public and private healthcare provider providing healthcare services for the older persons. The Ministry of Public Health (MoPH) is the main healthcare provider in Thailand, and provides 62% of the total hospitals and beds followed by other state organizations such as university and state enterprises particularly at the secondary and tertiary healthcare levels. The private sector provides around 25% of total hospital and beds (Kespichayawattana & Jitapunkul, 2009).

In Thailand, since the introduction of universal health coverage in 2001, the government has provided free healthcare for older persons in all government hospitals and health centers provide free medical services to persons aged 60 and above which can be accessed only by elderly who are poor and are under the universal coverage scheme. However, when people get sick or illness, they must went to primary health center first before went to secondary or tertiary hospital. This can led to not got treatment in time. Therefore, private health insurance company come to take the solution from waiting or transferring to receive the treatment.

Recently, civil servants, government and state enterprises' officers are insured for healthcare services after retirement while informal workers, farmers, own account workers, private and government employees are not covered for healthcare and long-term care services. As they grow old, all persons will inherently visit deteriorated health in later life. Working-age people who foresee health risk might be prepared to protect themselves against these risks through the mechanisms of saving, investing in RTM/RMF, buying life annuity insurance, etc. then again, it cannot be guaranteed that these personal mechanisms will work properly. Regardless of well preparedness, people face unexpected hardships; therefore, social protection mechanism that is independent from economic condition and luck is a must (Chandoevwit, 2003).

Studies have projected that Thailand will shift to an aging society in the next ten years. Nowadays, the price of long-term care and healthcare services for the elderly is expensive, they might fall into poverty trap. There also some news reported about Universal Coverage Scheme will be reform again in 2016. Moreover, researcher has been working as a medical claim assessor in one of private health insurance company for few years, researcher have seen that people in variety position, such as government officials, employee, house-wife, or self-employed were willing to do private health insurance. Therefore, the focus of this study is to know whether level of knowledge and level of attitude can influence people to select which health insurance type after retirement or not. Nonetheless, no current studies have been conducted throughout the country.

1.2 Research Questions

The study will seek to answer the following questions:

- 1. What are the socio-demographic background, level of knowledge, level of attitude toward the selection of health insurance type after retirement in Ratchaburi province, Thailand?
- 2. Do the socio-demographic background, level of knowledge, and level of attitudes, associate with the selection of health insurance system type after retirement in Ratchaburi province, Thailand?

1.3 Research Objectives

1.3.1 General Objective

To study the level of knowledge, attitude toward the selection of health insurance type after retirement in Ratchaburi province and the relationship among them.

1.3.2 Specific Objectives

- To study the selection of health insurance system type after retirement in respect of their socio-demographic background in Ratchaburi province, Thailand.
- 2. To study the level of knowledge and the level of attitudes toward the selection of health insurance type in Ratchaburi province, Thailand.
- 3. To determine the association among socio-demographic background, level of knowledge, level of attitude, with the selection of health insurance type after retirement in Ratchaburi province, Thailand.

จุฬาลงกรณ์มหาวิทยาลัย CHULALONGKORN UNIVERSITY

1.4 Conceptual Framework

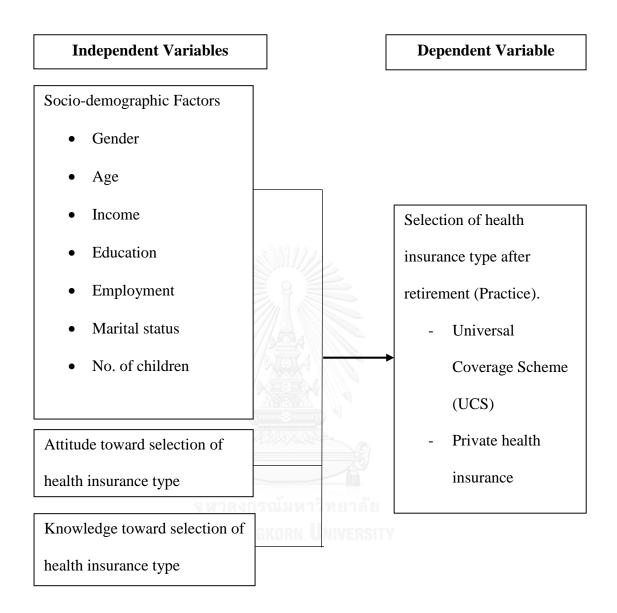


Figure 1 Conceptual framework of knowledge and attitude toward the selection of health insurance type after retirement in Ratchaburi province.

1.5 Operation Definition

- 1. **Income:** individual income per capital per month.
- 2. **Education:** the highest education in each person.
- 3. **Employment:** individual occupation or job.
- 4. Marital status: status of being single, married, widowed, divorced, or separate.
- 5. **Knowledge:** better understanding about type of health insurance system
- 6. **Attitude:** degree of positive or negative thinking, feeling, and expectation towards health insurance system.
- 7. **Selection** (**Practice**): the action toward choosing type of health insurance system.
- 8. Universal Coverage Scheme (UCS): health system for all people can use the promotive, preventive, curative, rehabilitative and palliative health services they need, of sufficient quality to be effective, while also ensuring that the use of these services does not expose the user to financial hardship.
- 9. **Private Health Insurance:** health system which is a contract between the insurer and the insured. The insurer is committed to pay the indemnity for hospitalization, surgery, and other expenses from illness or accidents based on conditions in the contract. The insured has to pay out a premium to the insurer.

CHAPTER II

LITERATURE REVIEWS

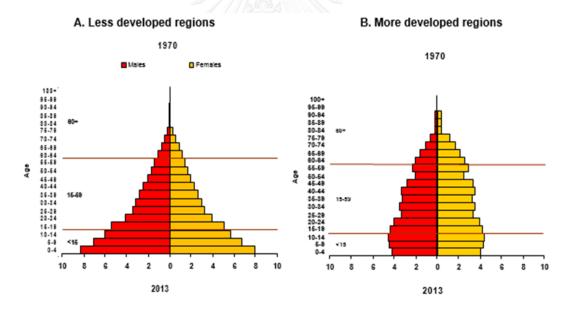
2.1 Aging population

In Thailand, the increase in the number of the elderly population has a direct relationship with the number of retired workers. Under the Social Security Scheme (SSS), unmet healthcare of retired workers, chronic illness among elderly resulting change in healthcare utilization pattern. The fact that the workers under SSS are not covered for healthcare and long-term care services after retirement- there is higher catastrophic risk for this group of workers.

Global demographic trend is shifting toward aging population as a result of reduction in mortality and fertility. In the last several decades, the world's total fertility rate (FTR) has fell by over half, from 5.0 children per woman in 1950 – 1955 to 2.5 children per woman in 2010 – 2015. Moreover, the fertility rate will continue dropping for the next decade, to 2.2 children per woman in 2045 – 2050. In less developed region, particularly Thailand, the total fertility rate has dropped more than a half from 6.1 children per woman in 1950 – 1955 to 2.7 children per woman in 2005 – 2010, and it will drop to 2.3 children per woman in 2045 – 2050.

Another reason behind increase in the older population is increase in life expectancy. The life expectancy of 65 years in developed regions and 42 in less developed regions during 1950 is expected to increase to 78 years and 68 years during 2010-2015 and to 83 years and 75 years during 2045-2050 respectively. This clearly depicts escalation in life expectancy in all regions around the world.

The eventual delineation of significant change in size and age composition of world's population in coming decades is another concern regarding increase in older population followed by aforementioned concomitant impacts. To illustrate, in figure 2.1, the population age structure is showed in 3 major age groups: Youth (aged under 15), Working-age (aged 15-59), and Elderly (aged 60 and over). In 2013, the pyramid for the less developed regions shows a wide base of a youthful population in 1970, to more rectangular in 2050. In the more developed regions, the pyramid in 2013 indicate there is noted of young and middle – aged adult, together with significant volume at aged population in the more developed regions, with more than 30 per cent of older people in 2050.



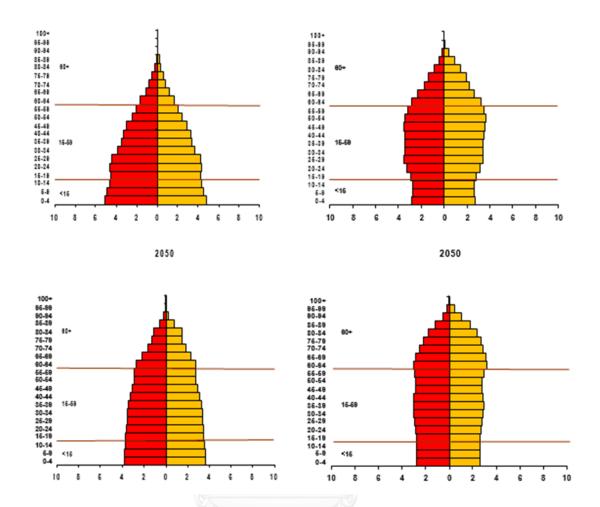


Figure 2 Population pyramids of the less and more developed regions: 1970, 2013, and 2050

Source: World Population Aging 2013, United Nations

During 2010-2040 the projection of population in Thailand, indicates that the percentage of the late-elderly (aged 80 and over) population will increase sharply from approximately 12.7 percent to almost one-fifth of the total elderly population as show in Figure 2. The rise is attributable to improved life expectancy in the elderly, which also results in an increasing number of population who are economically, socially, and physically dependent. There is also increasing trend of elderly population in the urban areas. In 2010, 39.7 percent elderly resided in the urban areas

and expected to have increased to 59.8 percent in 2040 in Thailand (United Nations, 2013). Furthermore, there will be reduction in Thai youth and working-age population with gradual rise from 13.2% in 2010 to 32.1% in 2040 among aging population. By 2017, the chasm between youth and elderly will curtail to become equal unexpectedly. *Table 1 Number and percentage of the elderly, by age group (aged 60-69, 70 79, and over 80), gender, and area of residence during 2010 – 2040*

2020 2030 2040 2010 Year Total 8,408.0 100.0 12,621.7 100.0 17,578.9 100.0 20.519.4 100.0 Early-elderly 4,629.7 55.1 7,255.6 57.5 9,260.4 52.7 8,958.5 43.7 (aged 60-69) 2,708.1 3,676.6 5,897.9 7,639.4 37.2 32.2 29.1 33.6 (aged 70-79) Late-elderly 1,070.2 12.7 1,689.5 13.4 2,420.6 13.8 3,921.4 19.1 (aged 80 and over)

Source: Population Projections for Thailand, 2010-2040, Office of the National Economic and Social Development Board

5,624.3

6,997.4

6.283.9

6.337.8

44.6

55.4

49.8

50.2

7.739.6

9,839.4

10,422.2

7,156.8

3,776,2

4,631.7

3,333.9

5,074.1

44.9

55.1

39.7

60.3

Male

Female

Urban

Rural

44.0

56.0

59.3

40.7

8,874.3

11,645.1

11,586.0

7.774.6

43.2

56.8

40.2

Besides the increasing elderly population, the increasing chronic diseases among them is yet another menace. There was 53% of elderly reported one or more chronic conditions. The most commonly reported condition was high blood pressure/ cholesterol (17%), followed by diabetes (8%), gout/rheumatoid arthritis/chronic pain in the knees/back/neck (5%), heart disease (2%), and paralysis (1%). It is noteworthy that more females than males reported having one or more of these top five conditions (Siriphanich, 2013). In addition, there also tend to have deteriorated diseases with age

such as vision impairment, hearing impairment, and bowel incontinence (Siriphanich, 2012).

Finally the cost and duration of the treatment and care services for elderly population prone to or having chronic diseases are crucial factors in terms of preparedness both at individual and national level. Even though many related agencies are urgently trying to implement the policies of the 2nd National Plan on the Aging (2002-2021), challenges to achieving the targets across the five strategies of the plan to ensure quality aging and meeting the needs and aspirations for the population in their final stage of life still remains.

2.2 Health Scheme in Thailand

According to the 1997 (2007 Amendment) Thai Constitution, rights of citizens to public health services and welfare is defines as:

"A person shall enjoy an equal right to receive standard public health services, and the indigent shall have the right to receive free medical treatment from State infirmaries. The public health service by the State shall be provided thoroughly and efficiently. The State shall promptly prevent and eradicate harmful contagious diseases for the public without charge."

Access to health services for all was also a part of the 8th National Social and Economic Development Plan (1997-2001) (McManus, 2012).

The health insurance system, characterized by fragmentation, duplication and inadequate coverage in some schemes, cannot achieve health systems goals of efficiency and equity. It does not allow collective financing to exert its monopolistic purchasing power and send the right signals to health care providers towards efficiency. Fee for service, a dominant mode of provider payment, exacerbates cost

containment problems, as seen by faster health expenditure growth than GDP growth, even during recession periods. With the lack of effective primary care, most of the poor are taken care of by hospitals which are expensive, have long waiting lines and unsatisfactory services (Pitayarangsarit & Tangcharoensathien, 2002).

2.2.1 Civil Service Medical Benefit Scheme

The Civil Service Medical Benefit Scheme (CSMBS) was introduced in 1980 to deliver health care to government employees, their dependents (children, spouse, and parents), and government retires. CSMBS provides comprehensive medical benefits, including coverage for inpatient and outpatient services, emergency treatment, and pharmaceuticals. The program is fully financed through general tax revenue with no premium payments from the beneficiaries. Beneficiaries are liable for copayments for the room and board charges associated with inpatient care in private hospital, but not for care in public facilities (Kespichayawattana & Jitapunkul, 2009).

The scheme has three inherited problems of inefficiency (reflected by unnecessary admission and longer hospital stay), cost escalation (real term increase of 14 percent per annum during 1988-1997) and inequity of per capita budget subsidy. All players have no cost concerns; public hospitals have incentives to over-charge in order to cross subsidize their MWS patients, for profit private hospitals had motives to overcharge the scheme. When beneficiaries were faced with no price tag, they were not cost conscious and took it for granted. Problems were compounded by the fact that the Department of Comptroller General was neither capable to counter-act overcharging nor able to introduce a reasonable policy intervention (Pitayarangsarit & Tangcharoensathien, 2002).

On September 13, 2015 there was a reported that government's efforts to lower the cost of the Civil Servant Medical Benefit (CSMB) scheme will mean lower medical benefit expenses for those working in the civil service. The expense that government used is over estimated to be 6,000 million Baht from 3,000 million Baht in 2015. It was the result from older people getting chronic diseases and the healthcare cost is getting expensive and most of chronic diseases need long-term care. Therefore, in near future the government may work with private health insurance company to substitute this problem (Thai PBS NEWS).

2.2.2 Social Security Scheme

The Social Security Scheme (SSS) launched in 1990, is an essential insurance program for private employees. SSS will not covered dependents and retirees. The SSS provides a comprehensive benefit package for non-work-related illness, and separate workers compensation scheme covers work-relate illness and injuries. Coverage is provided through a network of public and private hospitals that are contracted to provide inpatient and outpatient services. Beneficiaries select a hospital contractor of his or her choice, and the SSS pays a fixed capitation rate. Beneficiaries are liable for copayments for some services (Antos & Taylor, 2007). Civil servants, government and state enterprises' officers are insured for healthcare services after retirement. On the other hand, private employees, business owners are not cover for healthcare.

The strength of capitation is cost containment capacity. However, the cost quality trade-off has subsequently become a significant problem, especially when workers have not exercised their right to choose the provider with whom they registered. In addition, they are unlikely to have full information on clinical quality of

care when they exert rights to choose contractor hospitals. In fact they do not know which hospitals to choose. Health benefit is linked with employment and terminated when employment ceases, although a six month grace period is granted (extended to one year after the 1997 crisis). The provision on voluntary enrollment by ex-social security workers was not fully implemented by the Social Security Office, for fear of adverse selection and the financially non-viable (Pitayarangsarit & Tangcharoensathien, 2002)

2.2.3 Universal Coverage Scheme

Universal health coverage go together with social justice, health equity and a nation's responsibility to support 2 basic human rights, first is the right to health and second is the right to social security. Universal Coverage Scheme (UCS) was first launched in 2001, one of the most significant reforms. Thailand accomplished universal coverage in 2002. This meant that all Thais were covered by health insurance ensuring them access to a comprehensive package of health services.

During its first year, it covered to 47 million people (75% of the population) 18 million previously uninsured people and members of two existing publicly subsidized schemes (the Medical Welfare Scheme and the Voluntary Health Card Scheme) (McManus, 2012).

The most important goal of Universal Coverage Scheme is "to equally entitle all Thai citizens to quality health care according to their needs, regardless of their socioeconomic status". The Universal Coverage Scheme was a scheme for all Thai citizens, not aims only the poor or vulnerable. The overall objectives of the Universal Coverage Scheme are:

• To focus on health promotion and prevention as well as curative care.

- To emphasize the role of primary health care and the rational use of effective and efficient integrated services.
- To aid proper referrals to hospitals.
- To ensure that grants on public health expenditure are pro-poor, moreover, ensuring all Thais are secure against the financial risks of obtaining health care.

In UCS, beneficiaries register with a primary care provider, which act as gatekeeper to secondary and tertiary care. If beneficiaries go outside the health provider network in which they are registered, they must pay the full cost by themselves. Capitation payments cover outpatient services, disease prevention, and health promotion. Inpatient services are paid prospectively using Diagnosis-related group (DRGs). The UCS is fully funded through general tax revenue with no premium payments from the beneficiaries. Some beneficiaries were initially required to pay 30 baht per visit, but health services are now free of charge to everyone enrolled in UCS (Achara Suksamran et al., 2012).

Under National Security Act (Section 3) the benefit package of health services are as follows:

- Promotive and preventive cares.
- Diagnosis.
- Ante-natal care.
- Curative care.
- Medicine, medical supplies, organ substitutes, and medical equipment.
- Delivery.

- Boarding expense within health care unit.
- Newborn and child care.
- Ambulance or transportation for patient.
- Transportation for disability person.
- Physical and mental rehabilitation.

In curative package, Universal Coverage Scheme provided general examination, curative and rehabilitative services which included as follows:

- Medical examination, diagnosis, treatment and rehabilitation until the treatment ends, including alternative medical care as recognized by the Medical Registration Committee.
- 2. Childbirth delivery services, totaling for no more than 2 deliveries.
- 3. Meals and room charges for inpatients in common rooms.
- 4. Dental services: extraction, filling, scaling, plastic-based denture, milk-tooth nerve-cavity treatment, and placement of artificial palate in children with harelip and cleft palate.
- Medicines and medical supplies according to the national essential drug list.
 Referrals for further treatment among health facilities.

Moreover, the curative package also covered high-cost medical services, including artificial organs and prostheses, and accident and emergency illnesses, any accident or emergency case can go to any health facility (contributing in the scheme) located nearest to the scene.

Not only benefit package and curative benefits, the Universal coverage also provided a prevention benefits which included:

- Having and using personal health record-books.
- Examination and pre-natal care for pregnant women.
- Services related to child health, child development and nutrition, including immunizations according to the national immunization program.
- Annual physical checkups for the general public and high-risk groups.
- Antiretroviral medications for the prevention of mother-to-child transmission of HIV.
- Family planning services.
- Home visits and home health care.
- Provision of knowledge about health care for patients.
- Counseling and support for people's participation in health promotion.
- Oral health promotion and disease prevention (National Health Security Office).

From National Health Security Act B.E.2545 (A.D.2002) Section 41 stated "The Board shall earmark an amount of money, not exceeding 1 percent of money to be paid to Health care units, as preliminary assistance to reimburse beneficiaries who are subject to damage or injury caused by any service provided by the Health care unit and the wrongdoer is non-apparent or the wrongdoer is apparent but such beneficiaries cannot be reimbursed within a period deemed appropriate.

This shall be pursuant to such rules, procedures, and conditions as prescribed by the Board." (National Health Security Office). This mean if health care provider which include physicians, nurses, technicians, pharmacists, etc. performed malpractice to patients, the beneficiaries can informed the court and sued health care provider. Therefore, they can get the reimbursement from malpractice of health care provider.

On December 24, 2015 there was a news reported in the next year, 2016 Universal Coverage Scheme (UCS) may be reform because the government can't effort alone. There will be a meeting next year about how to improve UCS as a slogan "SAFE", Sustainability, Accessibility, Fair, and Efficiency. In other countries which also have UCS, the government didn't support the fund alone, they had co-partner. In the future, Thailand may need to reform as other countries (MGR Online).

จุฬาลงกรณมหาวิทยาลัย Chill Al ONGKORN UNIVERSITY

Table 2 Social health protection schemes have covered all Thai citizen since 2002

Major Schemes	Civil Servants Medical Benefit Scheme (CSMBS)	Social Security Scheme (SSS)	Universal Coverage (UCS)
Introduced in	1960s	1990s	2002
Target beneficiaries	Government employees & dependents, retirees	Private sector employees	Those not covered by CSMBS nor SSS
Pop Coverage	7%	16%	75%
Funding	Government budget	Payroll contribution, Tripartite	Government budget
Payment to health facilities	Fee-for-service for OP, DRG for IP	Capitation for OP & IP, DRG for Adjusted RW >= 2	Capitation for OP, DRG for IP

Source: Thailand: Universal Health Care Coverage Through Pluralistic, Health Insurance System Research Office and Health System Research Institute.

There was a studied from National Health Security Office (NHSO) reported during year 2008 – 2011 Thai population had a good perception toward Universal Coverage Scheme (UCS). Moreover, in 2013 received the highest perception than before, 95.49%. The result were 88.37%, 89.32%, 89.76%, and 92.75% in 2008 to 2011 respectively. In 2013, National Health Security Office did one studied with ABAC Poll to discovered Thai citizen's opinion toward Universal Coverage Scheme. The participants were 15 years old and over from 13 province in Thailand, totally 2,730 people. 524 participants from North region, 612 from Central region, 956 from Northeast region, 425 from South region, and 213 from Bangkok. The research asked only the participants who used the service during last 6 moth in 2013, there were 95.49% which were the highest during past 10 years. When looked in detailed, there were 56.6% had high satisfied, followed by 38.9% satisfied, then 3.8% felt neutral,

0.2% not really satisfied, and 0.5% not satisfied. Moreover, there were look at age of participant use this service. Most of satisfied were in aging group, 60 years old and above, followed by 50-59 years old (National Health Security Office).

2.2.4 Private Health Insurance

Although Voluntary private health insurance grew rapidly in Thai economy, previously such financial risk protection trend among private individuals in Thailand was less than 2 percent of the total health expenditures. Health insurance operates under two lines of businesses: as part of life insurance and non-life insurance policies. Life insurance is categorized as ordinal, industrial, and group type. Non-life insurance is categorized as fire, hull, cargo, automobile, and miscellaneous whereby health insurance operates. A private health insurance is a contract between the insurer and the insured. The insurer is committed to pay the indemnity for hospitalization, surgery, and other expenses from illness or accidents based on conditions in the contract. The insured has to pay out a premium to the insurer. The insured have a choices to pay the premium, every month, every 3 month, every 6 month, or annually. Mostly, female premium are higher than male in every period of age (Pitayarangsarit & Tangcharoensathien, 2002). Insured can get the contract since 1 month old, but every contract will end when the insured reach 70 years old (Thai Life Insurance Company Limited).

Most seven significant medical benefit packages covering only inpatient were room and board, ICU bed, general treatment, laboratory and special investigations, consultation fee, emergency care, and surgical fee and operating room. As the payment mechanism is mainly "fee for service", every item has a maximum limit of charge. Every health insurer has an exclusion list mostly for uninsurable risk persons

who have pre-existing diseases such heart disease, cancer, diabetes, epilepsy and blood pressure disorder, etc.

- Common exclusions
- Pre-existing disease and congenital disease. If the insured have pre-existing
 condition, the insured should informed to the insurer before signed the policy.

 If not, the insurer have rights to deny to pay the claim or terminate the
 contract.
- 2. Admissions with no medical reason or not recommended by physician.
- 3. Health check-up, eye examination, dental treatment except from accident, cosmetic surgery, contraception, abortion, pregnancy and delivery care.
- 4. Medical treatment that not related to the diagnosis of physician.
- Self-inflicted injury, suicide attempt, adverse drug reaction or drug overdose, alcoholism, drug abuse, sexually transmitted diseases, HIV/ AIDS related disease and mental disorder
- 6. The insurer do not cover any disease that occurred during 30 days after signed the policy.
 - Uncommon exclusion list
- Pre-existing disease which has not been cured such as hemorrhoid, sinusitis, peptic ulcer, hepatitis and asthma (Pitayarangsarit & Tangcharoensathien, 2002).

- Chronic diseases which occur in the first 120 days (probation period) such as tuberculosis, cancer, hernia, tonsil, adenoid gland, etc. (Thai Life Insurance Company Limited).
- 3. Vaccines except rabies vaccine and tetanus vaccine.

In life insurance, the common included in the main policy is the compensation due to hospitalization. This cash benefit made unnecessary admissions, a few cases were proved to be moral hazards (Pitayarangsarit & Tangcharoensathien, 2002).

In Thailand, there are totally 25 Health insurance Company, there are 13 Health Insurance Company share their investment with foreigners, while 1 is originated from abroad, and the rest is in the process of finding share investment with other countries. Therefore, in the near future, Thailand will not have Health Insurance Company that own by Thai people 100%. When looked a management aspect, there were only 14 companies that have Thais as a director. Moreover, in next several years all companies may have foreigner's director in the company (Geocities)

2.3 Social Health Insurance in other countries

2.3.1 Singapore

In September 2002, Ministry of Health established ElderShield for Singapore citizens and permanent residents (CPF). Which offer a basic financial risk protection to those who need long term care. When CPF reached 40 years old, they will automatically covered by Eldershield. CPF need to pay S\$400 per month for maximum 72 months. Eldershield covers basic financial protection for the severely disabled, defined as the inability to perform at least 3 out of 6 ADLs (All Activities Daily Lives). The ADLs consist of washing, dressing, feeding, toileting, mobility, and

transferring. Ministry of Health has selected 3 private insurers to track Eldershield (Ngee-Choon, Lim, & Angelique, 2008).

2.3.2 Republic of Korea

In July 2008, the government launched a Long-term Care Insurance Program to solve the problem of aging people be a major family burden in South Korea in many areas around the country as a pilot implement study. This social insurance system currently covers 3.8 percent of Korean elderly. It's a program for elderly with serious limitation in performing ADLs. For example, elderly who age 65 years or older, or less than 65 years old but suffer from an age-related disabling condition such as paralysis from stroke, Alzheimer's disease, and Parkinson's disease. It provided medical treatment services as follow: baths, laundry, and nursing care. (Joo, 2009) Poor aging are excused from copayment. Food and private rooms are not included (Sonman, Soo-Jung, & Youn, 2009). The national government expects to expand the program to include coverage of the aging people with less serious limitations in performing ADLs in the future (Joo, 2009).

2.3.3 Japan

In April 1, 2000, the government has introduced a new health insurance scheme for elderly aged 75 or above. Under this program, people age 65 or above and who need long-term care can receives nursing services. Long-term care insurance is managed by public authorities, it is funded half-and-half by public funds, and insurance premium (Masami, Mieko, & Hisashi, 2010).

2.3.3.1 Long-Term Care Insurance is for all Japanese citizens aged 40 years and above. This program are paid in the form of services that include: home care,

visiting bathing services, visiting rehabilitation services, respite care, and institutional care (Masami et al., 2010).

2.3.3.2 Health Insurance for the Elderly is for elderly aged 75 or above, called old-old person. Each public authority within the region administers healthcare for their old-old. The old-old pay 10 percent copayments, while 30 percent is applies to the high income-person (Hayashi, 2010).

2.4 Situation in Ratchaburi province

Ratchaburi is an area in the central region of Thailand, has an enormous aging population that leads the second highest amount in central Thailand, apart from Bangkok, and ranked under Nontaburi province (Chuthong, 2014; Wang, 2014). Official Statistic Registration Systems has shown that population age 50-59 years old in Ratchaburi province has total number of 112,596 people, with 51,787 male and 60,809 female in year 2014. This proportion is constantly increased year by year. The number of people aged 50-59 years old has increased from 99,979 in 2009 to 112,596 in 2014 (Official Statistic Registration Office). The data base of Nongree, Photaram District has reported there are 381 people under Universal Coverage Scheme, age 50-59 years old (information from Nhongree primary health care officer, 18/01/2016).

2.5 Theory and concepts

2.5.1 Socio-demographic

For socio-demographic factors, there are 4 variables that can influences selection of health insurance type. First is gender. Gender is a factors that show the different in physiology and role in society, community, and family. Gender makes a difference in ability, for female will have ability in language and arts. For male, have ability in mathematics, history, geography, and sciences. Moreover, Gender is also a

factor that is indicative of the difference in physical ability in dealing with the environment and capability of self-care. Additionally, gender is a factor affecting the receiving the services at the health facility. Gender also affects intelligence and awareness, it's likely that males are capable of learning than females. In addition, gender was a factor influencing the coping, adaptation and attitudes which affect the perception of the individual. Second is age. Age is a factor that indicates the maturity to handle such issues, awareness, understanding, interpretation and judgment. People with more age will have more opportunity to learn and experience to be seen more as model from others. When a person is more mature, they will choose a good choice and make a right decision. Third is education level. Education enables individuals with knowledge, understands in academic, experience and improve personal maturity. Education seems to be correlated with the ability to decide. Education is part of empowering individuals to have better quality of life. Moreover, education is crucial to the development of knowledge, skills and attitude towards self-care. Individuals with higher education can apply their knowledge for their own use easier. Last is occupation. Occupation is a factor that affects lifestyle. The important thing is occupation can affect or determines the revenue. The different in job description result in different revenue. Individuals with higher socio- economic status are likely to seek better treatment or prevention program than individuals with lower socioeconomic status (Socio-demographic concept).

2.5.2 Knowledge, attitude and practice

Concepts and theory with a focus on relationships among 3 variables, knowledge, attitude and practice. It is a concept that describes the relationship of educating the audience, to change attitudes that lead to behavior or practice.

Knowledge means to obtain information on the facts forms the normative practice or event that gain from experience, observation or media. Therefore, knowledge is the ability to use facts or ideas or concepts to associate with the event.

Bloom has split into six levels to assess the level of knowledge as following:

- 1. Recall level is a level that has the ability to pull data out of memory.
- 2. Comprehension level is a level that could do something more to remember the content, can write your own words and compare ideas and more.
- 3. Application level is a level that has ability to change the fact from abstract to concrete.
- 4. Analysis level a level that can give you an idea of bringing the idea of a separate category or the information to attributed to their own practice.
- 5. Synthesis level is bringing more ideas to contribute and become a new idea.
- 6. Evaluation level is the ability to use data to set a threshold effect and measurement data as a standard level to set the level of effectiveness of each activity (Bloom, Hasting, & Madaus, 1971).

Attitude is the link between knowledge and behavior because attitude is inclined to assess the individual, objects, idea, etc. There are 3 level of changing attitude as following:

- Changing ideas is the changes resulting from receiving new information which may come from the media or individuals.
- Changes in sensation is the change that come from experience or impression or what causes depression to an individual.

3. Change behavior is a changed the way of life in society, which affects individuals.

Such changes are related to each other directly. If thoughts, feelings and behavior are affected in any way, there will be a big change of attitude (Rodkumdee, 1989).

Practice is any action of people, most are expression. Normally, practice come from basis of knowledge and attitudes. Individuals behave differently because of the knowledge and attitudes are different. Arising from differences in media exposure and differences in the interpretation of one self. Thus causing the different accumulated experience that affect a person's behavior (Sotnasatien, 1990).

The actions or practice of any of any person are normally caused by attitude.

Therefore, Attitude is a virtual machine to control the actions of individuals.

The change of individual's practice or behavior had an important relation among knowledge, attitude and practice in 4 criteria as following:

- Attitude is the media that cause learning and practice. Therefore, there is a correlation among knowledge, attitude and practice.
- 2. There is a relation between knowledge and attitude that resulting in practice.
- Both knowledge and attitude can affect practice but knowledge and attitude may not have any correlation.
- 4. Knowledge affects practice, both directly and indirectly (Piluntaowat, 2006)

CHAPTER III

METHODOLODY

3.1 Research Design

This study was a cross-sectional description for quantitative data which aimed to access the level of knowledge and attitude toward the selection of health insurance type after retirement in Ratchaburi province Thailand. Structured questionnaire was used in part of socio-demographic, knowledge, attitude and selection of health insurance type. Moreover, the study also aimed to quantify the significance of variables and association among them.

3.2 Study Area

This study was conducted in Nhongree, Photharam District, Ratchaburi province, Thailand.

3.3 Study Population

The study population of this study was population at the age of 50-59 years old under Universal Coverage Scheme in Nhongree, Photharam District, Ratchaburi province, Thailand.

3.4 Sampling Method

The samples were selected by purposive selection. The inclusion criteria and exclusion criteria are explained below.

3.4.1 Inclusion criteria

- Male and female who are Thai.
- Samples who were age 50-59 years old.

- Samples who were under Universal Coverage Scheme.
- Samples who have lived in Ratchaburi province for at least 6 month long.
- 3.4.2 Exclusion criteria
- Sample who did not want to participate.

3.5 Sample Size

Sample size of this study was calculated by Daneil's formula as the following (Daniel, 1999):

$$n = \frac{Z^2pq}{d^2}$$

where:

n is the sample size

Z is standard value for 95% confidence interval (1.96)

d is the acceptance error (0.05)

p is proportion of target population (50% = 0.5 with assumption of maximum variance)

q is 1-p
$$(1-0.5 = 0.5)$$

From the above formula:

$$n = \frac{(1.96)^2(0.5)(0.5)}{(0.05)^2}$$

n = 384

With estimated 10% add-up for non-participation and missing value. Thus, total sample size was 430.

Nhongree primary health center will provide 10 health volunteers to help the researcher collect the data. They will interview the participants to get all information.

3.6 Measurement tool

For socio-demographic, the tool was developed from "An economic analysis of voluntary health insurance after retirement" (Kananurak, 2013). Knowledge, attitude, and practice was constructed by the author from various books and research paper applicable question items.

The researcher divided the questionnaire into 4 parts. Starting with sociodemographic background in part 1. Followed with part 2 on knowledge about health insurance system, part 3 on attitudes on health insurance system, and ended with part 4 on selection of health insurance system.

For part 1, there were 10 questions related to socio-demographic status such as age, gender, income, occupation, and education.

The second part was 30 questions to assess knowledge towards the selection of health insurance type after retirement.

Scoring criteria is as follows:

Correct answer was 1 point

Incorrect answer was 0 point

Don't know answer was 0 point

The total score was classified into 3 levels as follows: (Bloom, 1965)

Poor level (less than 60%): 0 - 18 score

Middle level (60-80%): 19 - 24 score

High level (more than 80%): 25 - 30 score

The third part was 20 questions about attitude towards the selection of health insurance type after retirement.

Important answer was 3 score

Neutral answer was 2 score

Not important answer was 1 score

Maximum score – Minimum score / Class interval = 3-1/3 = 0.66

The total attitude score was classified into 3 levels as follows: (Bloom, 1965)

Level of attitude Average score

High attitude 2.34-3.00

Medium attitude 1.67-2.33

Low attitude 1.00-1.66

In the last part on selection of health insurance type after retirement, there were 2 questions.

3.7 Data Analysis

For data analysis, SPSS software version 16.0 (licensed for Chulalongkorn University) will be used as follows:

- Descriptive statistic: socio-demographic characteristics, knowledge, and attitude presented by frequency, percentage, mean, standard deviation, minimum and maximum.
- \bullet Inferential statistic: the relationship between the independent variables and the dependent variables presented by using chi-square. The level of significance was P-value < 0.05

3.8 Ethical Consideration

Ethical approval to conduct this study will need to be sought from Ethics Review Committee of "Chulalongkorn University".

3.9 Validity Test

Three experts are consulted for validity review of the questionnaire content with IOC score of 0.67 and 1.

3.10 Reliability Test

30 sets of questionnaires will be conducted in Amphoe Muang Kanchanaburi province. The internal consistency of the rating scales will be perform by Kuder Richardson (KR20), the score of cronbach's alpha are 0.876 and 0.932 in attitude part.

3.11 Data collection

To approach the villagers at Nhongree district, researcher firstly meet with head of Nhongree primary health center to receive names of health volunteers and number of villagers. Second, head of Nhongree primary health center assigned work for health volunteers. Third, health volunteers were trained with questionnaires item by item. Last, health volunteers went to collect the data. This is the ordinary duty of health volunteer to visit each household every week. During visit villagers, health volunteers can therfore collect the data in the same time.

3.12 Expected benefits

According to the news, Universal Coverage Scheme will be reformed again in 2016 because government cannot subsidize all alone. Therefore, this study can know the attitude of people toward both Universal Coverage Scheme and private health insurance. In the near future, there may be the cooperation between government authorities and private insurance company on providing health insurance policy after retirement.

From this research government can realize wheather people really know their own benefit from Universal Coverage Scheme or not. Government can then improve

the way of communication to spread out correct, clear, and complete benefit they will gain. Additionally, government can use this information to develop or improve the benefit of Universal Coverage Scheme as population needed but it also depending on national budget.

Lastly, due to the fact that this research was conducted in only one area of Ratchaburi province, it might not imply to whole Thai population. Consequently, this kind of study should be conducted in whole country, if possible.



3.13 Financial Budget

Item	Description	Quantity	Unit	Total
			Price(Baht)	Amount
				(Baht)
A	Data collecting			
	process			
A-1	Photocopy	Unit	4(450/unit)	2,000.00
A-2	Research assistance	Unit	20(430/unit)	13,000.00
A-3	Pre-test	Set	30(20/set)	600.00
A-4	Training of research		1,500	1,500
	assistance			
	Sub-total (A)			17,100.00
В	Field survey			
B-1	Fuel and other		2,000	2,000.00
	expenses			
	Sub-total (B)		0	2,000.00
С	Productions		ý .	
C-1	Report (Proposal,	ารณ์แหาวิทยา	3'e1	
	Progress and	Paper	2(1,000/paper)	2,000.00
	Complete paper) and	IGROIIN GHIVEI	0111	
	cover			
	Sub-total (C)			2,000.00
	Total			21,100.00

3.14 Time Schedule

Project procedure	Sep 15	Oct 15	Nov 15	Dec 15	Jan 16	Feb 16	Mar 16	Apr 16	May 16	Jun 16	Jul 16
1.Literature review											
2.Writing thesis proposal											
3.Submission for proposal exam											
4.Proposal exam											
5.Ethical consideration from Chulalongkorn University			Q								
6.Pretest questionnaire	2										
7.Field preparation and data collection				4							
8.Data analysis	9	////	JKO E								
9.Thesis article writing											
10.Final thesis exam	Q4			esca .							
11.Submission of article for publication											
12.Submission of thesis and article	จุฬา HULA	avna Long	เณมา KORI	หาวห เ Un	ยาล IVERS	ej ITY					

CHAPTER IV

RESULTS

The study "knowledge and attitude toward the selection of health insurance type after retirement in Ratchaburi province, Thailand" collected data from 430 respondents who were between 50-59 years old and under Universal Coverage Scheme in Ratchaburi province through structured questionnaire about sociodemographic data, knowledge and attitude toward Universal Coverage Scheme and private health insurance, and the selection of health insurance type after retirement. The results of this study can be divided into 4 parts as follows:

Part I: Description of socio-demographic data

Part II: Description of knowledge, attitude, and selection of health insurance

Part III: Knowledge and attitude level (toward type of health insurance).

Part IV: Association of socio-demographic data, knowledge, and attitude compared with the selection of health insurance type.

Part I: Description of socio-demographic data.

According to socio-demographic data sample, respondents aged group of 50 to 53 years old were (40.9%). Out of 430 samples were males (167 = 38.8 %) and females (263 = 61.2 %) which female was higher about 1.5 times. Most of them graduated from primary school (311 = 72.3 %). Most of them were Buddhist (427 = 99.3%). Their occupation as employee were 158 respondents (36.7%). For their monthly income, it can be divided into 5 groups: less than 15,000 baht, 15,000 to 20,000 baht, 20,001 to 25,000 baht, 25.001 to 30,000 baht, and more than 30,001 baht. Personal income in 232 (54.0%) respondents was less than 15,000 baht. For

family household income in 129 (30.0%) respondents was 15,001 to 20,000 baht. For expense in 185 (43.0%) respondents was less than 10,000 baht. Most of them were married (306 = 71.2%) and have 2 children (199 = 46.3%) as shown in table 3.

Table 3: Description of socio-demographic data

Characteristics	Frequency (Persons)	Percentage (%)
Total	430	100
1.Gender		
Male	167	38.8
Female	263	61.2
2.Age Groups		
50-53	176	40.9
54-56	128	29.8
57-59	126	29.3
3.Education Level		
Primary School	311	72.3
Secondary School	48	11.2
High School	60	14.0
Bachelor's degree	ลงกรณ์มห ¹¹ วิทยาลัย	2.6
>Bachelor's degree	LONGKORN OJNIVERSITY	0
4.Religion		
Buddhist	427	99.3
Christian	1	0.2
Islam	2	0.5
5.Occupation		
Employee	158	36.7
Merchant	94	21.9
Agriculture	99	23.0
Not working	46	10.7
Others	33	7.7

Table 3: Description of socio-demographic data

Characteristics	Frequency (Persons)	Percentage (%)
Total	430	100
6.Personal income per mon	th	
< 15,000 Baht	232	54.0
15,001-20,000 Baht	140	32.6
20,001-25,000 Baht	29	6.7
25,001-30,000 Baht	16	3.7
>30,001 Baht	13	3.0
7.Family income per month	said da	
< 15,000 Baht	125	29.1
15,001-20,000 Baht	129	30.0
20,001-25,000 Baht	66	15.3
25,001-30,000 Baht	48	11.2
30,001-35,000 Baht	32	7.4
35,001-40,000 Baht	11	2.6
>40,000 Baht	19	4.4
8.Expenditure per month		
< 10,000 Baht	185	43.0
10,001-20,000 Baht	143	33.3
20,001-25,000 Baht	57	13.3
25,001-30,000 Baht	36	8.4
30,001-35,000 Baht	6	1.4
35,001-40,000 Baht	3	0.7
>40,000 Baht	0	0
9.Marital Status		
Single	39	9.1
Married	306	71.2
Divorced	24	5.6
Widowed	45	10.5
Separated	16	3.7

Table 3: Description of socio-demographic data

430	100
	100
62	14.4
75	17.4
199	46.3
84	19.5
10	2.3
	62 75 199 84

Part II: Description of knowledge, attitude, and practice toward type of health insurance.

Table 4: Knowledge, attitude, and practice outcome

Statements	Scores	Mean	Median	Mode	S.D.	Minimum	Maximum
Knowledge	0-30	18.67	18.00	18.00	4.56	4	27
Attitude	20-60	56.67	60	60	5.54	36	60
Practice	0-2	1.22	กรณ์ใมหา	2	0.82	0	2

Range of scores for knowledge, attitude and practice were 0 to 30, 20 to 60, and 0 to 2 respectively. For knowledge, the lowest score of sample was 4 and maximum was 27 scores. Around 18 scores were the mean, median. Minimum and maximum scores of samples' attitude were 36 and 60 respectively included mean and median around 56.67 and 60 respectively. For practice scores, most of them choose to use Universal Coverage Scheme (UCS) and buy private health insurance after retirement as shown in table 4.

In each question of knowledge, attitude, and practice it can provide distribution of numbers of sample and percentage as shown in table 5, 6, and 7 of knowledge, attitude, and practice respectively.

Table 5: Description of each knowledge question

Statements	Correct	Answer	Not Correct Answer		
<u>-</u>	N	%	N	%	
K.1 Knowledge toward Universal C	Coverage S	cheme (UC	CS)		
1.Universal Coverage Scheme	306	71.2	124	28.8	
(UCS) can be used for general					
illness, emergency illness, and					
accident.					
2.Those who are eligible for Civil	337	78.4	93	21.6	
Service Medical Benefit Scheme					
(CSMBS) or Social Security					
Scheme (SSS) is also eligible for					
Universal Coverage Scheme					
(UCS).					
3.People can use ID card as a	416	96.7	14	3.3	
substitute for the Gold card.					
4.In case of general illness, patient	322	74.9	108	25.1	
has to go to primary medical care					
first.					
5.Benefit from Universal	151	35.1	279	64.9	
Coverage Scheme (UCS) is oral					
health promotion.					
6.Benefit from Universal	265	61.6	165	38.4	
Coverage Scheme (UCS) are					
including anti-retrovirus drug.					

Table 5: Description of each knowledge question

Statements	Correct	Answer	Not Correct Answer		
_	N	%	N	%	
7.Universal Coverage Scheme	319	74.2	111	25.8	
(UCS) is now free of charge.					
8.Cataract surgery is not covered	130	30.2	300	69.8	
by Universal Coverage Scheme					
(UCS).					
9.End-stage renal disease is not	99	23.0	331	77.0	
covered by Universal Coverage					
Scheme (UCS).					
10.Normal room and food charges	213	49.5	217	50.5	
are not covered by Universal					
Coverage Scheme (UCS).					
11.According to section 41, if	258	60.0	172	40.0	
health care provider perform					
malpractice, patient or					
beneficiaries can receives the					
reimbursement.					
12.Cancer is not cover by	153	35.6	277	64.4	
Universal Coverage Scheme					
(UCS).					
13.Universal Coverage Scheme	357	83.0	73	17.0	
(UCS) cover only national drug					
lists.					
14. When referral, Universal	213	49.5	217	50.5	
Coverage Scheme (UCS) insurer					
cannot use full option benefit.					
15.Heart surgery is covered by	338	78.6	92	21.4	
Universal Coverage Scheme					
(UCS).					

Table 5: Description of each knowledge question

Statements	Correct	Answer	Not Correct Answer		
-	N	%	N	%	
K.2 Knowledge toward private hea	lth insurar	nc			
16.Private health insurance	265	61.6	165	38.4	
covered pre-existing condition.					
17.Private health insurance	256	59.5	174	40.5	
covered dental treatment.					
18.Insurer can pay premiums by	375	87.2	55	12.8	
monthly, every 3 month, every 6					
month, or annually.					
19.Private health insurance cover	391	90.9	39	9.1	
injury from accident.					
20.Private health insurance pay	392	91.2	38	8.8	
according to each package.					
21.Private health insurance do not	278	64.7	152	35.3	
cover congenital disease.					
22. There is a compensation during	365	84.9	65	15.1	
hospitalization.					
23.Private health insurance do not	245	57.0	185	43.0	
cover the expense if the insurer get					
any disease during 30 days after					
signed policy.					
24. The policy will end when the	246	57.2	184	42.8	
insurer reach 70 years old.					
25.Private health insurance cover	220	51.2	210	48.8	
treatment from toxin by drink or					
eat into the body.					
26.Private health insurance cover	226	52.6	204	47.4	
treatment related to psychosis.					

Table 5: Description of each knowledge question

Statements	Correct	Answer	Not Correct Answer		
-	N	%	N	%	
27.Private health insurance cover	194	45.1	236	54.9	
all vaccination.					
28.If insurer have pre-existing	334	77.7	96	22.3	
disease, insurer need to inform					
before sign the contract. If not,					
insured have rights to terminate					
the contract.					
29.Private health insurance do not	178	41.4	252	58.6	
cover ICU bed.					
30.Private health insurance cover	187	43.5	243	56.5	
the treatment from self-inflicted					
injury.		À			

From table 5, it was found that out of 30 questions, the majority of respondents answer correctly in 20 questions, mostly in knowledge about private health insurance. The significant questions that respondents answer incorrectly were item number 5 (279 = 64.9%), 8 (300 = 69.8%), 9 (331 = 77.0%), 10 (217 = 50.5%), 12 (227 = 64.4%), and 14 (217 = 50.5%). This can show that most of respondents don't know well about the benefit of UCS. From 15 questions, they answer correctly in 9 questions. However, for private health insurance respondents' answer correctly in 12 questions from 15 questions, it can show that most respondent have more knowledge about private health insurance.

Table 6: Description of each attitude question

Factors	Impor	tant	Neutral		Not		
					Impoi	tant	
-	N	0/0	N	%	N	%	
A.1 Attitude toward Univ	ersal Cove	erage Scho	eme				
1. Coverage of expense	371	86.3	58	13.5	1	0.2	
2. Quality of medicine	368	85.6	61	14.2	1	0.2	
3. Quality of treatment	368	85.6	61	14.2	1	0.2	
4. Quality of service	300	69.8	129	30.0	1	0.2	
5. Quality of healthcare	340	79.1	85	19.8	5	1.2	
personal							
6. Waiting time	310	72.1	113	26.3	7	1.6	
7. Compensation	347	80.7	79	18.4	4	0.9	
8. Choice of access to	369	85.8	61	14.2	0	0	
hospitals							
9. Cost	359	83.5	64	14.9	7	1.6	
10.Overall benefit	363	84.4	65	15.1	2	0.5	
A.2 Attitude toward priva	te health	insurance	าลัย				
1. Coverage of expense	357	83.0	68	15.8	5	1.2	
2. Quality of medicine	384	89.3	46	10.7	0	0	
3. Quality of treatment	379	88.1	51	11.9	0	0	
4. Quality of service	368	85.6	62	14.4	0	0	
5. Quality of healthcare	393	91.4	37	8.6	0	0	
personal							
6. Waiting time	331	77.0	98	22.8	1	0.2	
7. Compensation	372	86.5	54	12.6	4	0.9	
8. Choice of access to	382	88.8	48	11.2	0	0	
hospitals							
9. Cost	380	88.4	50	11.6	0	0	
10.Overall benefit	375	87.2	55	12.8	0	0	

For table 6, there are 10 factors of attitude toward each type of health insurance. Most of respondents answer important to all 10 factors to both Universal Coverage Scheme and private health insurance. In Universal Coverage Scheme (UCS) there were 9 factors which respondents answer not important, except choice of access to hospital. For private health insurance there were only 3 factors which respondents answer not important: coverage of expense (5 = 1.2%), waiting time (1 = 0.2%), and compensation (4 = 0.9%).

Table 7: Description of each practice questions

Statement	Use the right		Not sure		Not use the righ	
	N	%	N	%	N	%
After retirement, you will	203	47.2	120	27.9	107	24.9
use Universal Coverage						
Scheme (UCS) and buy						
private health insurance.						

For table 7 was the question about future practice. As everyone have rights to use Universal Coverage Scheme, 203 respondents (47.2%) will use both Universal Coverage Scheme and buy private health insurance after retirement, 120 respondents (27.9%) were not sure to buy private health insurance after retirement, and 107 respondents (24.9%) will not buy private health insurance after retirement.

Part III: Knowledge, attitude, and practice levels

Table 8: Knowledge and attitude levels

Groups	Score	N	%	Mean	Median	Mode	S.D.	Min	Max
Knowledge									
Poor	0-18	221	51.4	15.09	16.00	18.00	2.90	4	18
Moderate	19-24	152	35.3	21.34	21.00	21.00	1.79	19	24
High	25-30	57	13.3	25.00	25.00	25.00	0.66	25	27
Attitude									
Low	1.00-	0	0	0	0	0	0	0	0
	1.66								
Medium	1.67-	32	7.4	1.99	2.00	2.00	0.14	1.75	2.30
	2.33								
High	2.34-	398	92.6	2.90	3.00	3.00	0.15	2.40	3.00
	3.00								
			// //AA	WAR WAR AND A STATE OF THE PARTY OF THE PART	11 1 11 7				

As indicated in table 4, to assess knowledge, attitude, and practice part, the average score (mean) outcome were 19, 57 and 1 respectively. From 30 questions of knowledge part, they were divided, following Benjamin Bloom's criteria, into three groups: poor, moderate, and high. Majority of respondents was in poor group or 221 (51.4%) people. The score of this group was 0 to 18 points. The most frequent score (mode) of moderate group was 18.

The total score of attitude were 60 points. When using criteria of Bloom, we can divide attitude into 3 groups; low, medium, and high. Majority of respondents was in high group or 398 (92.6%) people. The score of this group was 2.34 to 3.00. The most frequent (mode) of high group was 3.00.

Part IV: Association of socio-demographic data, knowledge, attitude, and practice.

Table 9: Relationship between the respondents' socio-demographic data and their practice/selection

Socio-		Practice		χ2	p-value
demographic					
	Use	Not sure	Not use		
1.Gender					
Male	74(36.5%)	55(45.8%)	38(35.5%)	3.459	0.178
Female	129(63.5%)	65(54.2%)	69(64.5%)		
2.Age					
50-53	85(41.9%)	49(40.8%)	42(39.3%)	6.038	0.196
54-56	59(29.1%)	43(35.8%)	26(24.3%)		
57-59	59(29.1%)	28(23.3%)	39(36.4%)		
3.Educational					
level					
Primary School	145(71.4%)	83(69.2%)	83(77.6%)	8.444	0.207
Secondary School	22(10.8%)	16(13.3%)	10(9.3%)		
High School	29(14.3%)	21(17.5%)	10(9.3)		
Bachelor 's degree	7(3.4%)	0(0%)	4(3.7%)		
4.Religion					
Buddhist	200(98.5%)	120(100%)	107(100%)	2.631	0.764
Christian	1(0.5%)	0(0%)	0(0%)		
Islam	2(1.0%)	0(0%)	0(0%)		

Table 9: Relationship between the respondents' socio-demographic data and their practice/selection

Socio-		Practice		χ2	p-value
demographic					
	Use	Not sure	Not use		
5.Occupation					
Temporary employee	77(37.9%)	51(42.5%)	30(28.0%)	43.939	<0.001*
Merchant	39(19.2%)	33(27.5%)	22(20.6%)		
Agriculture	59(29.1%)	9(7.5%)	31(29.0%)		
Not working	23(11.3%)	8(6.7%)	15(14.0%)		
Others	5(2.5%)	19(15.8%)	9(8.4%)		
6.Personal income	per month				
< 15,000 Baht	107(52.7%)	81(67.5%)	44(41.1%)	26.585	0.001*
15,001 – 20,000	67(33.0%)	24(20.0%)	49(45.8%)		
Baht					
20,001 - 25,000	17(8.4%)	7(5.8%)	5(4.7%)		
Baht					
25,001 – 30,000	9(4.4%)	2(1.7%)	5(4.7%)		
Baht					
> 30,001Baht	3(1.5%)	6(5.0%)	4(3.7%)		
7.Family income pe	er month				
<15,000 Baht	55(27.1%)	46(38.3%)	24(22.4%)	19.351	0.080
15,001 – 20,000	57(28.1%)	38(31.7%)	34(31.8%)		
Baht					
20,001 - 25,000	32(15.8%)	17(14.2%)	17(15.9%)		
Baht					

Table 9: Relationship between the respondents' socio-demographic data and their practice/selection

Socio-		Practice		χ2	p-value
demographic					
	Use	Not sure	Not use		
25,001 – 30,000	32(15.8%)	5(4.2%)	11(10.3%)		
Baht					
30,001 - 35,000	14(6.9%)	8(6.7%)	10(9.3%)		
Baht					
35,001 - 40,000	5(2.5%)	3(2.5%)	3(2.8%)		
Baht					
> 40,001 Baht	8(3.9%)	3(2.5%)	8(7.5%)		
8.Expenditure					
per month					
Less than 10,000	78(38.4%)	61(50.8%)	46(43.0%)	21.222	0.020*
Baht					
10,001 - 20,000	68(33.5%)	31(25.8%)	44(41.1%)		
Baht					
20,001 - 25,000	34(16.7%)	14(11.7%)	9(8.4%)		
Baht					
25,001 – 30,000	20(9.9%)	10(8.3%)	6(5.6%)		
Baht					
30,001 – 35,000	2(1.0%)	4(3.3%)	0(0%)		
Baht					
35,001 – 40,000	1(0.5%)	0(0%)	2(1.9%)		
Baht					
9.Marital status					
Single	19(9.4%)	10(8.3%)	10(9.3%)	2.602	0.959
Married	143(70.4%)	88(73.3%)	75(70.1%)		

Table 9: Relationship between the respondents' socio-demographic data and their practice/selection

Socio-		Practice		χ2	p-value
demographic					
-	Use	Not sure	Not use		
Divorced	14(6.9%)	6(5.0%)	4(3.7%)		
Widowed	19(9.4%)	12(10.0%)	14(13.1%)		
Separated	8(3.9%)	4(3.3%)	4(3.7%)		
10.Number of child	ren in family				
No	33(16.3%)	11(9.2%)	18(16.8%)	10.692	0.220
1 person	38(18.7%)	21(17.5%)	16(15.0%)		
2 persons	95(46.8%)	56(46.7%)	48(44.9%)		
3 persons	30(14.8%)	30(25.0%)	24(22.4%)		
More than 3	7(3.4%)	2(1.7%)	1(0.9%)		
persons					

(*p-value <0.05)

The relationship between the independent variables or socio-demographic data and dependent variable or practice is presented by using chi-square test with p-value <0.05. From table 9, gender was the first of socio-demographic data or independent variable. There were 129 female respondents (63.5%) will use UCS and private health insurance after retirement and 74 male respondents (36.5%) will use. Not only using private health insurance, but also not use and not sure to use as well 69 people (64.5%) and 65 people (54.2%) respectively. The result of relation between gender and practice got 3.459 of $\chi 2$ value at p-value >0.05 (p-value = 0.178), therefore gender is not association with practice. For age group, age between 50-53 years old

will use both UCS and private health insurance after retirement 85 respondents (41.9%). The χ^2 value of gender was 6.038 at p-value >0.05 (p-value = 0.196), therefore age and practice were not association. In educational level, respondents in primary school 145 (71.4%) will buy private health insurance after retirement and 83 respondents (69.2% and 77.6%) were not sure and will not use. The relation between educational level and practice got 8.444 of χ 2 value at p-value>0.05 (p-value = 0.207), there is no association among education level and practice. Most of respondents were Buddhist (200 = 98.5%) will buy private health insurance level of 2.631 χ 2 value at p-value >0.05 (p-value = 0.764), therefore, religion not significantly association with practice. Most of occupation was employee and agriculture will use private health insurance after retirement, 77 respondents (37.9%) and 59 respondents (29.1%) respectively. Moreover, both of employee and agriculture also choose not to use private health insurance 30 respondents (28.0%) and 31 respondents (29.0%) respectively. The result of relation between occupation and practice got 43.939 of χ^2 value at p-value <0.05 (p-value = <0.001), therefore occupation was significantly association with practice. For personal income and family income were different in term of result. Personal income was significant or p-value <0.05 (p-value =0.001) but the family income showed p-value >0.05 (p-value = 0.080) or was not significantly associated with the practice. Most people had monthly income less than 15,000 baht and will use private health insurance or 107 respondents (52.7%) from 232 respondents. For expenditure, the majority group were expenditure less than 10,000 baht and 10,001 to 20,000 baht. Both group will use private health insurance 78 respondents (38.4%) and 68 respondents (33.5%) respectively. The result of $\chi 2$ value was 21.222 at p-value < 0.05 (p-value = 0.020), there was the association between

expenditure and practice. Both of marital status and number of children were similarly in term of result, not significant associated with practice or p-value >0.05 (p-value = 0.959 and 0.220 respectively).

Table 10: Relationship between each knowledge question and their practice/selection

Statement		Practice		χ2	p-value
	Use	Not sure	Not use		
K.1 Knowledge to	ward Univers	al Coverage	Scheme (UCS)		
1.Universal Covera	ge Scheme (U	(CS) can be us	ed for general i	llness, eme	ergency
illness, and acciden	ıt.				
Correct	132(65.0%)	110(91.7%)	64(59.8%)	35.027	<0.001*
Not Correct	71(35.0%)	10(8.3%)	43(40.2%)		
2. Those who are el	igible for Civi	l Service Med	ical Benefit Sch	neme (CSM	IBS) or
Social Security Sch	neme (SSS) is	also eligible fo	or Universal Co	verage Sch	ieme
(UCS).					
Correct	168(82.8%)	85(70.8%)	84(78.5%)	6.329	0.042*
Not Correct	35(17.2%)	35(29.2%)	23(21.5%)		
3.People can use II	card as a sub	stitute for the	Gold card.		
Correct	196(96.6%)	117(97.5%)	103(96.3%)	0.376	0.884
Not Correct	7(3.4%)	3(2.5%)	4(3.7%)		
4.In case of general	l illness, patier	nt has to go to	primary medica	al care first	
Correct	139(68.5%)	115(85.8%)	68(63.9%)	39.744	<0.001*
Not Correct	64(31.5%)	5(4.2%)	39(36.4%)		
5.Benefit from Uni	versal Coverag	ge Scheme (U	CS) is oral heal	th promotion	on.
Correct	56(27.6%)	46(38.3%)	49(45.8%)	10.952	0.004*
Not Correct	147(72.4%)	74(61.7%)	58(54.2%)		
6.Benefit from Uni	versal Coverag	ge Scheme (U	CS) are including	ng anti-retr	ovirus
drug.					
Correct	118(58.1%)	66(55.0%)	81(75.7%)	12.242	0.002*

26(24.3%)

Not Correct 85(41.9%) 54(45.0%)

Table 10: Relationship between each knowledge question and their practice/selection

Statement		Practice		χ2	p-value
	Use	Not sure	Not use		
7.Universal Covera	ige Scheme (U	CS) is now fre	ee of charge.		
Correct	140(69.0%)	94(78.3%)	85(79.4%)	5.509	0.064
Not Correct	63(31.0%)	26(21.7%)	22(20.6%)		
8.Cataract surgery	is not covered	by Universal (Coverage Schen	me (UCS).	
Correct	79(38.9%)	32(26.7%)	19(17.8%)	15.876	<0.001*
Not Correct	124(61.1%)	88(73.3%)	88(82.2%)		
9.End-stage renal d	lisease is not co	overed by Uni	versal Coverag	ge Scheme ((UCS).
Correct	39(19.2%)	33(27.5%)	37(25.2%)	3.316	0.191
Not Correct	164(80.8%)	87(72.5%)	80(74.8%)		
10.Normal room ar	nd food charge	s are not cover	red by Universa	al Coverage	e Scheme
(UCS).					
Correct	94(46.3%)	83(69.2%)	36(33.6%)	30.156	<0.001*
Not Correct	109(53.7%)	37(30.8%)	71(66.4%)		
11.According to see	ction 41, if hea	alth care provid	der perform ma	alpractice, p	oatient or
beneficiaries can re	eceives the rein	nbursement.			
Correct	130(64.0%)	61(50.8%)	67(62.6%)	5.887	0.053
Not Correct	73(36.0%)	59(49.2%)	40(37.4%)		
12.Cancer is not co	ver by Univers	sal Coverage S	Scheme (UCS).		
Correct	71(35.0%)	51(42.5%)	31(29.0%)	4.578	0.101
Not Correct	132(65.0%)	69(57.5%)	76(71.0%)		
13.Universal Cover	rage Scheme (U	UCS) cover or	nly national dru	g lists.	
Correct	181(89.2%)	78(65.0%)	98(91.6%)	38.655	<0.001*
Not Correct	22(10.2%)	42(35.0%)	9(8.4%)		
14. When referral, U	Jniversal Cove	erage Scheme	(UCS) insurer	cannot use	full option
benefit.					
Correct	111(54.7%)	47(39.2%)	55(51.4%)	7.459	0.024*
Not Correct	92(45.3%)	73(60.8%)	52(48.6%)		

Table 10: Relationship between each knowledge question and their practice/selection

Statement		Practice		χ2	p-value	
	Use	Not sure	Not use			
15.Heart surgery is	covered by U	niversal Cover	rage Scheme (U	JCS).		
Correct	177(87.2%)	70(58.3%)	91(85.0%)	40.863	<0.001*	
Not Correct	26(12.8%)	50(41.7%)	16(15.0%)			
K.2 Knowledge to	ward private	health insura	nce			
16.Private health in	surance cover	ed pre-existing	g condition.			
Correct	140(69.0%)	53(44.2%)	72(67.3%)	21.544	<0.001*	
Not Correct	63(31.0%)	67(55.8%)	35(32.7%)			
17.Private health in	surance cover	ed dental treat	ment.			
Correct	143(70.4%)	51(42.5%)	62(57.9%)	24.594	< 0.001*	
Not Correct	60(29.6%)	69(57.5%)	45(42.1%)			
18.Insurer can pay	premiums by i	monthly, every	3 month, ever	y 6 month,	or	
annually.						
Correct	182(89.7%)	93(77.5%)	100(93.5%)	14.976	0.001*	
Not Correct	21(10.3%)	27(22.5%)	7(6.5%)			
19.Private health in	surance cover	injury from ac	ccident.			
Correct	189(93.1%)	102(85.0%)	100(93.5%)	7.109	0.029*	
Not Correct	14(6.9%)	18(15.0%)	7(6.5%)			
20.Private health in	surance pay a	ccording to ea	ch package.			
Correct	186(91.6%)	108(90.0%)	98(91.6%)	0.279	0.870	
Not Correct	17(8.4%)	12(10.0%)	9(8.4%)			
21.Private health in	surance do no	t cover conger	nital disease.			
Correct	148(72.9%)	69(57.5%)	61(57.0%)	11.473	0.003*	
Not Correct	55(27.1%)	51(42.5%)	46(43.0%)			
22. There is a comp	ensation durin	g hospitalizati	on.			
Correct	169(83.3%)	101(84.2%)	95(88.8%)	1.739	0.419	
Not Correct	34(16.7%)	19(15.8%)	12(11.2%)			

Table 10: Relationship between each knowledge question and their practice/selection

Statement		Practice		χ2	p-value
	Use	Not sure	Not use		
23.Private health in	surance do no	t cover the exp	bense if the ins	urer get any	disease
during 30 days afte	r signed policy	/ .			
Correct	114(56.2%)	49(40.8%)	82(76.6%)	29.682	<0.001*
Not Correct	89(43.8%)	71(59.2%)	25(23.4%)		
24. The policy will	end when the i	nsurer reach 7	0 years old.		
Correct	121(59.6%)	47(39.2%)	78(72.9%)	27.191	<0.001*
Not Correct	82(40.4%)	73(60.8%)	29(27.1%)		
25.Private health in	surance cover	treatment from	n toxin by drin	k or eat int	o the
body.					
Correct	107(52.7%)	57(47.5%)	56(52.3%)	0.898	0.638
Not Correct	96(47.3%)	63(52.5%)	51(47.7%)		
26.Private health in	surance cover	treatment rela	ted to psychos	is.	
Correct	111(54.7%)	49(40.8%)	66(61.7%)	10.555	0.005
Not Correct	92(45.3%)	71(59.2%)	41(38.3%)		
27.Private health in	surance cover	all vaccination	n.		
Correct	108(53.2%)	39(32.5%)	47(43.9%)	13.135	0.001*
Not Correct	95(46.8%)	81(67.5%)	60(56.1%)		
28.If insurer have p	ore-existing dis	sease, insurer i	need to inform	before sign	the
contract. If not, ins	ured have righ	ts to terminate	the contract.		
Correct	171(84.2%)	72(60.0%)	91(85.0%)	30.011	<0.001*
Not Correct	32(15.8%)	48(40.0%)	16(15.0%)		
29.Private health in	surance do no	t cover ICU be	ed.		
Correct	83(40.9%)	57(47.5%)	38(35.5%)	3.391	0.184
Not Correct	120(59.1%)	63(52.5%)	69(64.5%)		
30.Private health in	surance cover	the treatment	from self-inflic	cted injury.	
Correct	92(45.3%)	62(51.7%)	33(30.8%)	10.507	0.005
Not Correct	111(54.7%)	58(48.3%)	74(69.2%)		

The relationship between knowledge question and practice were divided by type of health insurance, Universal Coverage Scheme (UCS) and private health insurance. In first part there were 15 questions about UCS. First 4 questions were about general information of this scheme and most of the respondents answer correctly. From first 4 questions, item 1, 2, and 4 have the same result. Item one was significantly or p-value <0.05 (p-value <0.001), item 2 also associated with practice at p-value <0.05 (p-value = 0.042), and item 4 the result was 39.744 of χ^2 value at pvalue<0.05 (p-value <0.001). On the other hand, item 3 was about people can use ID card substitute for the gold card. Most of the respondents answer correctly, there were 196 respondents (96.6%) will use both UCS and private health insurance, 117 respondents (97.5%) not sure, and 103 respondents (96.3%) will not use private health insurance. It was not significantly associated with the practice at 0.376 of χ^2 level at p-value >0.05 (p-value = 0.884). From item 5 to 15 were about the benefit of this scheme. Most of respondents (147 = 72.4%) didn't know about benefit of oral health promotion and will buy private health insurance level of 10.952 χ2 value at p-value <0.05 (p-value =0.004), therefore it significantly associated. In items 9, respondent answer incorrect about benefit of end-stage renal failure, 164 respondents (80.8%) and will use private health insurance. There was no association or p-value >0.05 (pvalue = 0.191) of 3.316 χ 2 value. For item 13, 14, and 15 were significant associated with p-value <0.05 (p-value = <0.001, 0.024, and <0.001 respectively. Next, for knowledge about private health insurance, most of the questions were about the exclusion which company will not covered (item 16, 17, 21, 22, 23, 25, 26, 27, 28, and 30). Item 16 and 17 had the same result with p-value <0.05 (p-value <0.001). Respondents knew about private health insurance will not cover congenital disease

and they will buy private health insurance after retirement (148 = 72.9%) at p-value < 0.05 (p-value = 0.003). It was significant associated with practice and $\chi 2$ value was 11.473. For item 28, respondents answer correct 171 people (84.2%) will use private health insurance and 91 people (85.0%) will not use private health insurance. The result was 30.011 of $\chi 2$ value at p-value < 0.05 (p-value < 0.001), therefore, it was significantly associated with practice. Respondents also didn't knew well about private health insurance cover ICU bed but still chose to but private health insurance after retirement, 120 respondents (59.1%) at p- value >0.05 (p-value = 0.184). It was not associated with practice. For the last question, private health insurance cover the treatment from self-inflicted injury, the respondent answer incorrect and will use private health insurance 111 respondents (54.7%) and not use 74 respondents (69.2%). There was no association between them as p-value >0.05 (p-value = 0.005) at 10.507 of $\chi 2$ value.

Table 11: Relationship between each part of attitude and the practice/selection

Part of attitude	จุฬาลงก	χ2	p-value		
	Use				
A.1 Attitude towa	ard Universal	Coverage Sch	eme		
1. Coverage of exp	pense				
Important	192(94.6%)	92(76.7%)	87(81.3%)	26.000	<0.001*
Neutral	11(5.4%)	27(22.5%)	20(18.7%)		
Not Important	0(0%)	1(0.8%)	0(0%)		
2. Quality of medi	cine				
Important	190(93.6%)	92(76.7%)	86(80.4%)	23.069	<0.001*
Neutral	13(6.4%)	27(22.5%)	21(19.6%)		
Not Important	0(0%)	1(0.8%)	0(0%)		

Table 11: Relationship between each part of attitude and the practice/selection

Part of attitude		Practice		χ2	p-value
	Use	Not sure	Not use		
3. Quality of treatr	nent				
Important	190(93.6%)	92(76.7%)	86(80.4%)	23.069	<0.001*
Neutral	13(6.4%)	27(22.5%)	21(19.6%)		
Not Important	0(0%)	1(0.8%)	0(0%)		
4. Quality of servi	ce				
Important	154(75.9%)	72(60%)	74(17.21%)	10.669	0.012*
Neutral	49(24.1%)	47(39.2%)	33(7.67%)		
Not Important	0(0%)	1(0.8%)	0(0%)		
5. Quality of health	hcare personal				
Important	172(84.7%)	92(76.7%)	76(71.0%)	21.386	<0.001*
Neutral	31(15.3%)	23(19.2%)	31(29.0%)		
Not Important	0(0%)	5(4.2%)	0(0%)		
6. Waiting time					
Important	155(76.4%)	80(66.7%)	75(70.1%)	15.951	0.002*
Neutral	48(23.6%)	33(27.5%)	32(29.9%)		
Not Important	0(0%)	7(5.8%)	0(0%)		
7. Compensation					
Important	181(89.2%)	87(72.5%)	79(73.8%)	23.107	<0.001*
Neutral	22(10.8%)	29(24.2%)	28(26.2%)		
Not Important	0(0%)	4(3.3%)	0(0%)		
8. Choice of acces	s to hospitals				
Important	186(91.6%)	99(82.5%)	84(78.5%)	11.411	0.003*
Neutral	17(8.4%)	21(17.5%)	23(21.5%)		
9. Cost					
Important	183(90.1%)	90(75.0%)	86(80.4%)	14.032	0.004*
Neutral	18(8.9%)	27(22.5%)	19(17.8%)		
Not Important	2(1.0%)	3(2.5%)	2(1.9%)		

Table 11: Relationship between each part of attitude and the practice/selection

10.Overall benefit Important Neutral Not Important A.2 Attitude towa 1. Coverage of exp Important Neutral Not Important 2. Quality of medic Important		Not sure	Not use		
Important Neutral Not Important A.2 Attitude towa 1. Coverage of exp Important Neutral Not Important 2. Quality of medic					
Neutral Not Important A.2 Attitude towa 1. Coverage of exp Important Neutral Not Important 2. Quality of medical	106(01 60/)				
Not Important A.2 Attitude towa 1. Coverage of exp Important Neutral Not Important 2. Quality of medic	186(91.6%)	91(75.8%)	86(80.4%)	17.963	<0.001*
A.2 Attitude towa 1. Coverage of exp Important Neutral Not Important 2. Quality of medic	16(7.9%)	28(23.3%)	21(19.6%)		
1. Coverage of exp Important Neutral Not Important 2. Quality of medical	1(0.5%)	1(0.8%)	0(0%)		
Important Neutral Not Important 2. Quality of medic	rd Private hea	alth insurance	:		
Neutral Not Important 2. Quality of medic	ense				
Not Important 2. Quality of medic	193(95.1%)	77(64.2%)	87(81.3%)	54.007	<0.001*
2. Quality of medic	10(4.9%)	38(31.7%)	20(18.7%)		
-	0(0%)	5(4.2%)	0(0%)		
Important	cine				
	197(97.0%)	94(78.3%)	93(86.9%)	28.488	<0.001*
Neutral	6(3.0%)	26(21.7%)	14(13.1%)		
3. Quality of treatm	nent				
Important	194(95.6%)	91(75.8%)	94(87.9%)	28.104	<0.001*
Neutral	9(4.4%)	29(24.2%)	13(12.1%)		
4. Quality of service	e				
Important	188(92.6%)	88(73.3%)	92(86.0%)	22.731	< 0.001*
Neutral	15(7.4%)	32(26.7%)	15(14.0%)		
5. Quality of health	ncare personal				
Important	194(95.6%)	103(85.8%)	96(89.7%)	9.594	0.008*
Neutral	9(4.4%)	17(14.2%)	11(10.3%)		
6. Waiting time					
Important	169(83.3%)	71(59.2%)	91(85.0%)	29.627	<0.001*
Neutral	33(16.3%)	49(40.8%)	16(15.0%)		
Not Important	33(10.3/0)	T/(TU.U/U)	10(13.070)		

Table 11: Relationship between each part of attitude and the practice/selection

Part of attitude		Practice		χ2	p-value
	Use	Not sure	Not use		
7. Compensation					
Important	196(96.6%)	86(71.7%)	90(84.1%)	43.756	<0.001*
Neutral	6(3.0%)	31(25.8%)	17(15.9%)		
Not Important	1(0.5%)	3(2.5%)	0(0%)		
8. Choice of access	s to hospitals				
Important	191(94.1%)	96(80.0%)	95(88.8%)	15.096	<0.001*
Neutral	12(5.9%)	24(20.0%)	12(11.2%)		
9. Cost					
Important	193(95.1%)	92(76.7%)	95(88.8%)	24.891	<0.001*
Neutral	10(4.9%)	28(623.3%)	12(11.2%)		
10.Overall benefit					
Important	191(94.1%)	90(75.0%)	94(87.9%)	24.688	<0.001*
Neutral	12(5.9%)	30(25.0%)	13(12.1%)		
Not Important					
(*=1					

^{(*}p-value <0.05)

Each section of attitude questions was significantly associated with the practice. P-value was less than 0.05. Almost all, p-value was less than 0.001 except the item number 4, 6, and 9 of attitude toward Universal Coverage Scheme (UCS) and item number 5 of attitude toward private health insurance were 0.012, 0.002, 0.003, 0.004, and 0.008 respectively. Respondents had an important attitude toward both Universal Coverage Scheme (UCS) and private health insurance in all factors.

Table 12: Relationships between knowledge, attitude, and practice/selection

Levels	Levels Practice	Practice		χ2	p-value
	Use	Not sure	Not use		
Knowledge					
Poor	103(50.7%)	59(49.2%)	59(55.1%)	23.264	<0.001*
Moderate	63(31.0%)	58(48.3%)	31(29.0%)		
High	37(18.2%)	3(2.5%)	17(15.9%)		
Total	203(100%)	120(100%)	107(100%)		
Attitude					
Medium	1(1.0%)	19(15.8%)	11(10.3%)	25.805	<0.001*
High	201(99.0%)	101(84.2%)	96(89.7)		
Total	203(100%)	120(27.91%)	107(24.88%)		

From table 12, the level of knowledge was significant at p-value <0.05 (p-value <0.001) with practice which most of poor group will use both Universal Coverage Scheme (UCS) and private health insurance or 103 respondents (50.7%). Moreover, moderate level knowledge also use both type of health insurance or 63 respondents (31.0%). The χ 2 value was 23.264.

The level of attitude divided from score criteria showed two levels of medium and high attitude. The relationship between attitude group and practice group was significant at p-value <0.05 (p-value <0.001) and the $\chi 2$ value was 25.805. This result founded that the high attitude was associated with use Universal Coverage Scheme (UCS) and will buy private health insurance after retirement or 201 respondents (94.1%) from total 203 respondents (100%).

CHAPTER V

SUMMARY, DISCUSSION, AND RECOMMENDATIONS

From this study, the title was knowledge and attitude toward the selection of health insurance type after retirement in Ratchaburi province Thailand. The objectives of this research were listed as follows:

- 1. To study the selection of health insurance system type after retirement in respect to their socio-demographic background in Ratchaburi province, Thailand
- 2. To study the level of knowledge, level of attitudes toward the selection of health insurance type in Ratchaburi province, Thailand.
- 3. To determine the association among socio-demographic background, level of knowledge, level of attitude, with the selection of health insurance type after retirement in Ratchaburi province, Thailand.

The respondents were 430 people at the age of 50-59 years old, lived in Ratchaburi at least 6 month and were under Universal Coverage Scheme's rights. Descriptive statistic using were frequency and percentage on socio-demographic characteristics, questions of knowledge, attitude, and practice parts. Others descriptive statistics were mean, standard deviation, minimum, and maximum values were used with each level of attitude. The inferential statistics was used to test the association between independent and dependent variables by chi-square test and correlation. Independent variables were socio-demographic data, knowledge and attitude level. Selection of health insurance type was the dependent variable.

5.1 Summary

Based on data collected, respondents were female (61.2%), aged between 50 to 53 years old (40.9%), 72.3% graduated from primary school and were employees (36.7%). Most of respondents were Buddhist (99.3%). For personal monthly income, a greater number of respondents earned less than 15,000 baht per month (54.0%) and 15,001 to 20,000 baht for family income (30.0%). 43.0% used less than 10,000 baht per month. The respondents were married (71.2%) and had 2 children (46.3%).

For score of knowledge and attitude, the minimum and maximum of knowledge scores were 4 and 27 from 30 of total scores. For attitude score, the minimum scores were 36 and maximum were 60 scores. The average score of knowledge and attitude were 19 and 57 respectively. Corresponding standard deviation was 4.56 and 5.54 for knowledge and attitude. Furthermore, the level of knowledge was divided into 3 levels: poor, moderate, and high. About half of respondents had poor knowledge (51.4%) the average scores and standard deviation of poor knowledge group were 16 and 2.90 respectively. Attitude also divided into 3 groups: low, medium, and high. Most of respondents had high attitude (92.6%) with standard deviation of 0.14. there were 47.2 of respondents will use Universal Coverage Scheme (UCS) and will buy private health insurance after retirement, while 27.9% and 24.9% were not sure and will not buy private insurance after retirement.

The association between independent variable or socio-demographic data, knowledge, and attitude with dependent variable or practice (the selection of health insurance type) were tested by the use of chi-square test as shown in table 9 to 12. Practice was associated with occupation, personal income, and expenditure (socio-demographic part) with statistically significant (p-value<0.05). On the other hand, the

association between each knowledge question and practice compared with correct and not correct answer group of respondents show statistically significant (p-value<0.05) about the general information of insurance type, the benefit, and the exclusion of insurance. The attitude was statistically significant with practice p-value <0.05 as all 10 factors in both UCS and private health insurance of attitude questions were significant associated with practice. Data in table 12 showed the relationship between knowledge, attitude, and practice, it was found the association of both knowledge and attitude with practice with p-value less than 0.05 (p-value<0.001).

5.2 Discussion

5.2.1 Socio-demographic characteristics

The respondents who participated in this study were mostly female (61.2%), parallel to the result of the survey of public opinion and health provider about universal coverage scheme in 2011 and 2013 y National Health Security Office collaborated with Happiness Community Center, Assumption University that mostly were female participants 52.2% and 51.6% respectively (National Health Security Office, Happiness Community Center, & Assumption University, 2011, 2013). Additionally, this result also similar from Chisapath that were 59.5% were female participants (Chuthong, 2014). 99.3% of respondents were Buddhist, like the study "Factors affecting to health service utilization of people having universal health coverage right" shown 95.7% of participants were Buddhist (Boonkham, 2014). For educational level, 71.4% of respondents finished primary school. The result from National Statistic Office of Thailand shown 65-70% had an elementary school or below. The finding was associated with National Health Security Office that defined the education level in elementary school in 46.0% from year 2011 (National Health

Security Office et al., 2011). Mainly, the occupation of respondents were employee (36.7%) same as National Statistic Office of Thailand described that 62-63% were employee in 2007 and 2012 (national statistic). Furthermore, Chisapath mentioned 31.1% were employee (Chuthong, 2014). Chiefly, respondents' personal income were less than 15,000 baht (54.0%) which Arpirapon mentioned were 62.0% (Deevit, 2011). For the result of marital status, the study showed about 71.2% of the respondents were married, in association with the survey from National Health Security office collaborated with Happiness Community Center, Assumption University which shown the number of married status in year 2011 and 2013 in 69.8% and 66.7% respectively. (National Health Security Office et al., 2011, 2013). Lastly, number of children in family, in this study shown 46.3% had 2 children. The result similar with Chalermpon, 52.0% (Chamchon & Kosuke, 2006).

5.2.2 Knowledge, attitude, practice, and their association

The rationale of this study was an increase of buying private health insurance or increase market share of insurance business while Thai population had the right to use national insurance scheme or universal coverage scheme. Many factors could be related. Knowledge and attitude were the key factors of this study required to learn about better understanding and thinking regarding affected to practice or selection of health insurance type. In line K.Somruedee (2016) who ensured that people understand the benefit of UCS with a great majority, including how to think and to put into action for problem solution.

Comparing of knowledge and practice showed an association at P-value less than 0.05. The majority of respondent were in poor level group of knowledge (51.4%) about general information, benefit, and exclusion of both universal coverage scheme

and private health insurance. There was a study of Sherif Emil (2014) stated only one-third of all respondents demonstrated accurate knowledge of the basic of their own health care system. For example less than 60% of respondents correctly answered the question about patient protection Act (Emil, Nagurney, Mok, & Michael D. Prislin, 2014). Similar to this study, there was 60% of respondents answered question "According to section 41, if health care provider perform malpractice, patient or beneficiaries can receive reimbursement" correctly. From Samitra Pokrel (2013) study stated that health information or knowledge during past 1 year, 70.9% received health information (Pokrel, 2013). On the other hand, study of Chisapath revealed that 45.5% of participants were in moderate level of knowledge regarding access to universal coverage scheme (Chuthong, 2014). Additionally, there was a study from Iran stated that literacy level was not significantly associated with practice. This result may have happened because received information was not sufficient enough to bring awareness about positive impact of good practice (Pokrel, 2013).

Comparing attitude and practice, there was also strong association. Most of respondents got high level of attitude. In line with Sherif Emil (2014), most of respondent were consistently stronger supporters of a right to health care access and universal health care. The study in Chiang Rai also revealed the same result, most of the respondents had high attitude and perception toward universal health coverage. On the other hand, attitude toward private health insurance, "Health care utilization and attitudes toward health insurance. A comparison of privately insured and medical assistance or uninsured patients" shown Patients enrolled in a medical assistance program were less willing to pay for their health care than were private patients. Sixty-two percent of clinic patients responded that they would not be willing to pay

anything at all for their health care coverage. These data suggest that health care and health insurance is a lower priority for the clinic patient (Della Valle CJ, Levitz CL, & Bora FW Jr, 1995). Furthermore, there were more than twice as likely to feel they were healthy and did not need health insurance (18.9 percent versus about 9 percent for persons with private or public health insurance). In addition, about one-third of adults without health insurance felt that it was not worth the cost compared with approximately one-quarter of persons with private or public health insurance. Among adults with health insurance, the percentages who agreed with the attitudinal statements toward health insurance were not significantly different for those with private versus public coverage (Machlin & Carper, 2005)

5.3 Recommendations

5.3.1 Recommendation on research outcome

The World Health Report (2010) defined the health financing for universal coverage scheme as the financing systems that "need to be specifically designed to provide all people with access to needed health services of sufficient quality to be effective, and to ensure that the use of these services does not expose the user to financial hardship". This research is only to study about the samples' knowledge and attitude in relation to the selection of health insurance type. The level of knowledge was poor which meaned that there was a lack of common understanding on the benefit or the package of Universal Coverage Scheme. Nearly half of the respondents were willing to buy private health insurance after retirement. Moreover, there were some groups of people who could not make a final decision which might be due to the lack of information about Universal Coverage Scheme. Therefore, the Thai government may not be able to accomplish the goals of the Universal Coverage Scheme. The best

solution perhaps is for the Thai government to do more public relations/socialization campaign to persuade the people through the provision of information about Universal Coverage Scheme so that people can know about their rights and to use their rights as much as possible.

As nearly half of the respondents would buy private health insurance after retirement, this might be similar to some research about the persuasive communication by health insurance agents (Suwannapisit, 2000). The communication process between life insurance agents and the insureds begins with an open-up step. The agents approach the customers through their good relationship. Later on the life insurance agents propose the life insurance policy to the insureds. This is called the selling step. The final step is the case-closing when the agents make/influence the insureds to buy the life insurance policy. The content of the message which life insurance agents use can be divided into the 6 types according to the objectives for buying the life insurance policy: general education, business protection, disability, debt, investment and medical cares. The persuasive strategies of life insurance agents that makes the insureds buy life insurance policy is the compliance-gaining strategies. They are in concordance with the persuasive strategies which the insureds believe that the life insurance agents use (the seven persuasive strategies from all sixteen strategies): expertise (negative), aversive stimulation, debt, moral appeal, self-feeling (positive), altercasting (positive) and altercasting (negative). The insureds perceive that the purchase of a life insurance policy would give good benefit for themselves and their families. When something bad happen, life insurance policy becomes something valuable and this creates the positive attitude of the insureds toward the life insurance policy.

5.3.2 Recommendation to further research

Further research should include health status or health condition as an independent variable. Health status can relate with socio-demographic data and can impact to practice or dependent variable. High rates of chronic health conditions make the elderly high risk in terms of catastrophic health expenditure. Likewise, the price of long-term care and healthcare services for the elderly is expensive. While being uninsured at any age is risky, older persons without adequate health coverage are at particular risk of suffering adverse health events from skipping needed care, spending large shares of their income on out-of-pocket costs, and accumulating medical debt. Therefore, the future research will know whether health status has an association with the selection of health insurance type or not.

จุฬาลงกรณ์มหาวิทยาลัย CHULALONGKORN UNIVERSITY

REFERENCES

- Achara Suksamran, Kamolrat Turner, Laiad Jamjan, Orarat Wangpradit, Panarut Wisawatapnimit, Peranan Jerayingmongkol, . . . Yupaporn Pongsing. (2012).

 Universal Health Coverage: Case studies from Thailand (A. Treerutkuarkul Ed.). Sahamitr Printi ng & Publishing Co,Ltd.: Health Systems Research Institute (HSRI).
- Antos, J. R., & Taylor, W. H. (2007). Health Care Financing in Thailand: Modeling and Sustainability.
- Bloom, B. S. (1965). *A Taxonomy of Educational Objectives Handbook*. New York: McGraw-Hill.
- Bloom, B. S., Hasting, T. J., & Madaus, G. F. (1971). *Handbook on Formative and Summative Evaluation of Student Learning*. New York: McGraw-Hill.
- Boonkham, V. (2014). Factors Affecting to Health Service Utilization of People

 Having Universal Health Coverage Right (Gold Card) at Hua Chiew Hospital.

 Hua Chiew Academic Journal.
- Chamchon, C., & Kosuke, M. (2006). Assessment of People's Views of Thailand's
 Universal Coverage (UC): A Field Survey in Thangkwang Subdistrict,
 Khonkhen. *Southeast Asian Studies*, 44(2).
- Chandoevwit, W. (2003). *Old Age Income Security and Poverty Incident*. Bangkok: Thailand Development Research Institute (TDRI).
- Chuthong, C. (2014). Knowledge Regarding an Access to University Coverage

 Scheme Among the Elderly in Amhoe Muang Ratchaburi Province Thailand.

 (Master's thesis), College of Public Health Sciences, Chulalongkorn

 University.

- Daniel, W. W. (1999). *Biostatistics: A Foundation for Analysis in the Health Sciences* (7th ed.). New York: John Wiley & Sons.
- Deevit, A. (2011). The Satisfaction of People in Sevice of Universal Coverage Scheme

 Case Study: Chiang Rai Provincial Hospital, Chiang Rai. (Bachelor's degree),

 Chiang Mai University.
- Della Valle CJ, Levitz CL, & Bora FW Jr. (1995). Health Care Utilization and

 Attitudes Toward Health Insurance. A Comparison of Privately Insured and

 Medical Assistance or Uninsured Patients. *American journal of orthopedics*,

 24(6).
- Emil, S., Nagurney, J. M., Mok, E., & Michael D. Prislin. (2014). Attitudes and Knowledge Regarding Health Care Policy and Systems: A Survey of medical Students in Ontario and California. *Canadian Medical Association*, 2(4).
- Gavin, J. (2009). Population Ageing in Asia and Its Implications for Mobility. Population Ageing. n.p.
- Geocities. Retrieved from www.geocities.ws/lasamo/ib315.doc
- Hayashi, M. (2010). Social Protection in Japan: Current State and
- Challenges. n.p.: School of Public and International Policy and Graduate School of Economics,

Hitotsubashi University.

- Heller, P. S. (2006). Is Asia Prepared for an Aging Population?
- Henderson James W. (2003). *Health Economics and Policy*. Nashville, TN: South-Western Publishing.

- Joo, S. Y. (2009). The South Korean Health Care System. *The Japan Medical Association Journal*.
- Kananurak, P. (2013). *An Economic Analysis of Voluntary Health Insurance After Retirement*. Bangkok: National Institute of Development Administration.
- Kespichayawattana, J., & Jitapunkul, S. (2009). Health and Health Care System for Older Persons. *33*(1), 28-49.
- Knodel John, & Chayovan, N. (2008). Population Ageing and the Well-being of the Older Persons in Thailand. Michigan: Population Studies Center.
- Machlin, S., & Carper, K. (2005). Attitudes Toward Health Insurance Among Adults

 Age 18 and Over. *Statistical Brief*, #87.
- Masami, I., Mieko, H., & Hisashi, T. (2010). Perspective on the Universal Health

 Insurance System. *The Japan Medical Association Journal*, 53(3), 139-143.
- McManus, J. (2012). *Thailand's Universal Coverage Scheme: Achievements and Challenges*. Retrieved from Health Insurance System Research Office:
- MGR Online. Retrieved from http://www.manager.co.th/Qol/ViewNews.aspx?NewsID=9580000140830
- National Health Security Office. Retrieved from http://www.nhso.go.th
- National Health Security Office, Happiness Community Center, & Assumption

 University. (2011). The Survey of Public Opinion and Health Provider about

 Universal Coverage Scheme in 2011 Bangkok, Thailand: National Health

 Security Office.
- National Health Security Office, Happiness Community Center, & Assumption

 University. (2013). The Survey of Public Opinion and Health Provider about

 Universal Coverage Scheme in 2013

- Bangkok, Thailand: National Health Security Office.
- Ngee-Choon, C., Lim, S. e. S., & Angelique, C. (2008) Feminization of Ageing and Long-term Care Financing in Singapore. Singapore: Singapore Centre for Applied Policy Economics.
- Official Statistic Registration Office. Retrieved from http://stat.dopa.go.th/stat/
- Piluntaowat, O. (2006). การสื่อสารเพื่อโน้มน้าวใจ. Bangkok: Chulalongkorn University.
- Pitayarangsarit, S., & Tangcharoensathien, V. (2002). *Health Insurance Systems in Thailand*. Health Systems Research Institute (HSRI): Health Systems Research Institute (HSRI).
- Pokrel, S. (2013). Factors Influencing Annual Health Checkup Among Older Adults in Kanchanaburi Demographic Surveillance System, Thailand. (Master degree), Miami University, Miami University.
- Rodkumdee, C. (1989). สื่อมวลชนเพื่อการพัฒนา. Bangkok: Chulalongkorn University.
- Siriphanich, B. (2009). *Situation of the Thai Elderly 2008*. TQP Ltd.: Foundation of Thai Gerontology Research and Development Institute.
- Siriphanich, B. (2012). *Situation of the Thai Elderly 2012*. SS Plus Media Company Limited.: Foundation of Thai Gerontology Research and

Development Institute.

Siriphanich, B. (2013). *Situation of the Thai Elderly 2013*. n.p.: Foundation of Thai Gerontology Research

and Development Institute.

Socio-demographic concept. Retrieved from http://digital_collect.lib.buu.ac.th/dcms/files/00120/chapter2.pdf

- Sonman, K., Soo-Jung, K., & Youn, J. (2009). *Introduction of Longterm Care Insurance in South Korea*. Seoul: Seoul National University.
- Sotnasatien, S. (1990). การสื่อสารกับสังคม. Bangkok: Chulalongkorn University.
- Suwannapisit, W. (2000). *Interpersonal communication in reinforcing life insurance*adoption among Thai people in Bangkok. (Master), Chulalongkorn University,

 Chulalongkorn University.
- Thai Life Insurance Company Limited. Retrieved from http://www.thailife.com/
- Thai PBS NEWS. Retrieved from <a href="http://news.thaipbs.or.th/content/กรมบัญชีกลางเตรียมลดยกเลิกสิทธิ์รักษาพยาบาลข้าราชการ
- UNFPA. (2006). Population Ageing in Thailand: Prognosis and Policy Response.

 Thailand: UNFPA.
- United Nations. (2013). *World Population Ageing 2013*: United Nations Publication,

 Department of Economic and Social Affairs Population Division.
- Wang, Y.-F. (2014). Assessing Age-friendly Features and Needs of Elderly Toward

 Age-friendly City in Amphoe Muang Ratchaburi Province Thailand. (Master),

 Chulalongkorn University, College of Public Health Sciences.

APPENDIX



จุฬาลงกรณ์มหาวิทยาลัย Chill Al ONGKORN UNIVERSITY

Appendix A

Questionnaire

Survey Title: Knowledge and attitude toward the selection of health insurance type after retirement in Ratchaburi province, Thailand

Survey Objectives: To study the distribution of the selection of health insurance system type after retirement in respect to their socio-demographic background in Ratchaburi province, Thailand, to study the level of knowledge, level of attitudes towards the selection of health insurance system type in Ratchaburi province, Thailand, and to determine the association among socio-demographic background, level of knowledge, level of attitude, with level of selection of health insurance system type after retirement in Ratchaburi province, Thailand by the college of Public Health Science Master's degree student, Chulalongkorn University.

Questionnaire Co	de: []	(Code by Researcher)
Date://	(Code by Researcher)	

Information for the respondent:

We wish to know your knowledge and attitude toward the selection of health insurance type after retirement. Your information will be useful for public health service and action.

Your answer will not be released to anyone and will remain anonymous. Your name will be written on the questionnaire or be kept in other records. The presentation of this research result is an overall and does not refer to an individual reporting.

There are 62 questions in this questionnaire, which consists of 4 parts:

Part 1 Socio-demographic characteristic

Part 2 Knowledge about each type of insurance

Part 3 Attitude toward each type of insurance

Part 4 the selection of health insurance type

10 questions
20 questions
2 question

Thank you for your time and kind assistance.

Part 1: Socio-Demographic Characteristics

1.1 Gender	
□ Male	☐ Female
1.2 Age range	
□ 50-53 years old	☐ 54-56 years old
□ 57-59 years old	
1.3 Education level	
□ Primary School	☐ Secondary School
☐ High School	☐ Bachelor 's degree
☐ Higher than Bachelor's degree	
1.4 Religion	
□ Buddhist	☐ Christian
□ Islam	☐ Other, please specify
1.5 Occupation	
☐ Temporary employee	☐ Merchant
□ Agriculture	☐ Not working
☐ Other, please specify	
1.6 Personal income per month	
☐ Less than 15,000 Baht	□ 15,001 – 20,000 Baht
□ 20,001 – 25,000 Baht HILALOMGKORN	□ 25,001 – 30,000 Baht
☐ More than 30,001Baht	
1.7 Family income per month	
☐ Less than 15,000 Baht	\Box 15,001 – 20,000 Baht
$\square\ 20,001-25,000\ Baht$	□ 25,001 – 30,000 Baht
\square 30,001 – 35,000 Baht	□ 35,001 – 40,000 Baht
☐ More than 40,001 Baht	
1.8 Expenditure per month	
☐ Less than 10,000 Baht	\Box 10,001 – 20,000 Baht
\square 20,001 – 25,000 Baht	□ 25,001 – 30,000 Baht
\square 30,001 – 35,000 Baht	□ 35,001 – 40,000 Baht
☐ More than 40,000 Baht	

1.9 Marital Status	
☐ Single (go to part 2)	☐ Married
□ Divorced	□ Widowed
□ Separated	
1.10 Number of children in family	
□ 1 person	☐ 2 persons
□ 3 persons	\square more than 3 persons

Part 2: Knowledge towards selection of health insurance system type after retirement. For each statement, please check ($\sqrt{}$) TRUE, FALSE, or DON'T KNOW for your best opinion

"TRUE" means you think the statement is correct.

"FALSE" means you think the statement is not correct.

If you cannot decide, you may answer "DON'T KNOW"

K1. Knowledge about Universal Coverage Scheme (UCS)

STATEMENT	TRUE	FALSE	DON'T KNOW
Universal Coverage Scheme (UCS) can be used for general illness, emergency illness, and accident.			
2. Those who are eligible for Civil Service Medical Benefit Scheme (CSMBS) or Social Security Scheme (SSS) is also eligible for Universal Coverage Scheme (UCS).			
3. People can use ID card as a substitute for the Gold card.			
4. In case of general illness, patient has to go to primary medical care first.			
5. Benefit from Universal Coverage Scheme (UCS) is oral health promotion.			
6. Benefit from Universal Coverage Scheme (UCS) are including anti-retrovirus drug.			

STATEMENT	TRUE	FALSE	DON'T KNOW
7. Universal Coverage Scheme (UCS) is now free of charge.			
8. Cataract surgery is not covered by Universal Coverage Scheme (UCS).			
9. End-stage renal disease is not covered by Universal Coverage Scheme (UCS).			
10. Normal room and food charges are not covered by Universal Coverage Scheme (UCS).			
11. According to section 41, if health care provider perform malpractice, patient or beneficiaries can receives the reimbursement.			
12. Cancer is not cover by Universal Coverage Scheme (UCS).			
13. Universal Coverage Scheme (UCS) cover only national drug lists.			
14. When referral, Universal Coverage Scheme (UCS) insurer cannot use full option benefit.			
15. Heart surgery is covered by Universal Coverage Scheme (UCS).	TV		

K2. Knowledge about Private health insurance.

STATEMENT	TRUE	FALSE	DON'T KNOW
16. Private health insurance covered pre- existing condition.			
17. Private health insurance covered dental treatment.			
18. Insurer can pay premiums by monthly, every 3 month, every 6 month, or annually.			
19. Private health insurance cover injury from accident.			

STATEMENT	TRUE	FALSE	DON'T KNOW
20. Private health insurance pay according to each package.			
21. Private health insurance do not cover congenital disease.			
22. There is a compensation during hospitalization.			
23. Private health insurance do not cover the expense if the insurer get any disease during 30 days after signed policy.			
24. The policy will end when the insurer reach 70 years old.			
25. Private health insurance cover treatment from toxin by drink or eat into the body.			
26. Private health insurance cover treatment related to psychosis.			
27. Private health insurance cover all vaccination.			
28. If insurer have pre-existing disease, insurer need to inform before sign the contract. If not, insured have rights to terminate the contract.			
29. Private health insurance do not cover ICU bed.	Υ		
30. Private health insurance cover the treatment from self-inflicted injury.			

Part 3: Attitude towards the selection of health insurance system type after retirement. For each statement, please check (√) IMPORTANT, NEUTRAL, or NOT IMPORTANT for your best opinion

- "IMPORTANT" means you think this factor is important. "NEUTRAL" means you think this factor is neutral.
- "NOT IMPORTANT" means you think this factor is not important.

A1. Attitude toward Universal Coverage Scheme (UCS)

FACTOR	IMPORTANT	NEUTRAL	NOT IMPORTANT
1. Coverage of expense			
2. Quality of medicine			
3. Quality of treatment			
4. Quality of service			
5. Quality of healthcare personal			
6. Waiting time			
7. Compensation	WEST CONTROL OF THE SECOND SERVICE SER		
8. Choice of access to hospitals			
9. Cost			
10.Overall benefit	ณ์มหาวิทยาลั	E	

A2. Attitude toward Private health insurance.

FACTOR	IMPORTANT	NEUTRAL	NOT
			IMPORTANT
1. Coverage of expense			
2. Quality of medicine			
3. Quality of treatment			
4. Quality of service			
5. Quality of healthcare personal			
6. Waiting time			
7. Compensation			

FACTOR	IMPORTANT	NEUTRAL	NOT
			IMPORTANT
8. Choice of access to hospitals			
9. Cost			
10.Overall benefit			

Part 4: Selection of health insurance system type after retirement. For each statement, please check (√) USE THE RIGHT, DON'T USE THE RIGHT,

or NOT SURE for your best opinion.

"USE THE RIGHT" means you will definitely use the right.

"DON'T USE THE RIGHT" means you don't use the right.

If you cannot decide, you may answer "NOT SURE"

STATEMENT	USE THE RIGHT	DON'T USE THE RIGHT	NOT SURE
1. After retirement, you will use Universal Coverage Scheme (UCS).			
2. After retirement, you will use Universal Coverage Scheme (UCS) and buy private health insurance.	มาวิทยาลัย		

Appendix B Questionnaire Thai Version

Questionnan't Than	CISIOII
เลขที่แบบสอบถาม	
วันที่/	
คำชี้แจง:	
แบบสอบถามชุดนี้จัดทำขึ้นเพื่อประเมินความรู้เจตคติต่อการเลือก	ใช้สิทธิการรักษาพยาบาลหลังเกษียณ และพิจารณา
ความสัมพันธ์ที่เกี่ยวข้องในจังหวัดราชบุรี ประเทศไทย ผลการศึกษาที่ได้จาก	การตอบแบบสอบถามในครั้งนี้
ข้อมูลที่เกี่ยวข้องกับท่านจะเก็บเป็นความลับ หากมีการเสนอผลกา	ารวิจัยจะเสนอเป็นภาพรวม ข้อมูลใดที่สามารถระบุถึง
ตัวท่านได้จะ ไม่ปรากฏในรายงาน	
แบบสอบถามมีทั้งหมด 4 หน้า รวมทั้งหมด 62 คำถาม แบ่งออกเป็น 4 ส่	วน ดังนี้
ส่วนที่ 1 ข้อมูลทั่วไป	จำนวน 10 ข้อ
ส่วนที่ 2 ความรู้เกี่ยวกับสิทธิการรักษาพยาบาล	จำนวน 30 ข้อ
ส่วนที่ 3 เจตคติต่อสิทธิการรักษาพยาบาล	จำนวน 20 ข้อ
ส่วนที่ 4 การเลือกใช้สิทธิการรักษาพยาบาลหลังเกษียกเ	จำบาบ 2 ข้อ

ขอบพระคุณในการตอบแบบสอบถาม

จุฬาลงกรณ์มหาวิทยาลัย Chulalongkorn University

ส่วนที่ 1: ข้อมูลทั่วไป	
1.1 เพศ	
□ ชาย	🗆 หญิง
1.2 อายุ	
□ 50-53 ปี	่ 54-56 ปี
่ 57-59 ปี	
1.3 ระดับการศึกษาสูงสุด	
🗆 ประถมศึกษา	🗌 มัธยมสึกษาตอนต้น
🗆 มัธยมศึกษาตอนปลาย	🗆 ปริญญาตรี
🗌 สูงกว่าปริญญาตรี	
1.4 ศาสนา	
□ щит	🗆 คริสต์
□ อิสลาม	🗆 🗆 🗆 อื่นๆ โปรคระบุ
1.5 อาชีพ	
🗌 ลูกจ้างชั่วคราว	□ ค้าขาย
🗆 เกษตรกร	□ ไม่ได้ทำงาน
□ อื่นๆ โปรคระบุ	
1.6 รายได้เฉลี่ยต่อเดือน (บาทต่อเดือน)	
$\square < 15{,}000$ עוו	$\Box\ 15{,}001-20{,}000$ עונע
$\square\ 20,\!001-25,\!000$ עווע	$\square\ 25{,}001-30{,}000$ עווע
$\square > 30{,}001$ עווע	
1.7 รายได้เฉลี่ยของครอบครัวต่อเดือน (บาทต่อเดือ	น)
$\square < 15{,}000$ עוו	$\Box\ 15,\!001-20,\!000$ עווע
$\square\ 20,\!001-25,\!000$ עווע	$\square\ 25{,}001-30{,}000$ עווע
$\square\ 30,\!001-35,\!000$ или	$\square \ 35,\!001 - 40,\!000$ עווע
$\square > 40.001$ 1139	

1.8 รายจ่ายเฉลี่ยต่อเดือน (บาทต่อเดือน	
$\square < 10{,}000$ חוע	\square 10,001 $-$ 20,000 חוע
$\square~20{,}001-25{,}000$ חוע	$\Box\ 25{,}001-30{,}000$ עונע
\square 30,001 – 35,000 חוני	\square 35,001 $-$ 40,000 שוני
$\square > 40{,}000$ חוע	
1.9 สถานภาพสมรส	
□ โสด (ไปส่วนที่ 2)	🗌 แต่งงาน
🗌 หย่าร้าง	□ หม้าย
🗌 แยกกันอยู่	
1.10 จำนวนบุตร	
□ 1 คน	่ □ 2 คน
□ 3 คน	🗆 มากกว่า 3 คน

ส่วนที่ $m{2}$: ความรู้ต่อการใช้สิทธิการรักษาพยาบาลหลังเกษียณ กรุณาทำเครื่องหมาย $\sqrt{12}$ ในช่องคำตอบที่ท่านเลือก

K1. ความรู้เกี่ยวกับสิทธิประกันสุขภาพถ้วนหน้า

	รายการคำถาม	ពូก	ผิด	ไม่ทราบ
1.	สิทธิประกันสุขภาพถ้วนหน้า สามารถใช้สิทธิ์เมื่อเจ็บป่วยทั่วไป เจ็บป่วยฉุกเฉิน กรณีอุบัติเหตุ			
2.	ผู้ที่มีสิทธิข้าราชการ หรือ สิทธิประกันสังคม สามารถใช้สิทธิประกัน สุขภาพถ้วนหน้าได้			
3.	ประชาชนสามารถใช้บัตรประจำตัวประชาชนแทนบัตรทองได้			
4.	ในกรณีเจ็บป่วยทั่วไป ผู้ป่วยต้องเข้ารับบริการที่โรงพยาบาลส่งเริม สุขภาพตำบลหรือโรงพยาบาลที่ได้ลงทะเบียนเป็นสถานบริการหลัก ในสิทธิประกันสุขภาพถ้วนหน้าก่อน			
5.	สิทธิประกันสุขภาพถ้วนหน้าคุ้มครองการส่งเสริมป้องกันสุขภาพช่อง ปาก เช่นฟื้นปลอมฐานพลาสติก			
6.	สิทธิประกันสุขภาพถ้วนหน้าคุ้มครองยาต้าไวรัสในผู้ติดเชื้อ			
7.	สิทธิประกันสุขภาพถ้วนหน้าไม่ต้องเสียค่าใช้จ่ายใคๆทั้งสิ้น			
8.	สิทธิประกันสุขภาพถ้วนหน้าไม่คุ้มครองการผ่าตัดต้อกระจก			

รายการคำถาม	ถูก	ผิด	ไม่ทราบ
9. สิทธิประกันสุขภาพถ้วนหน้าไม่คุ้มครองการรักษาไตวายเรื้อรังระยะ สุดท้าย			
10. ค่าห้องสามัญและค่าอาหารไม่ถูกคุ้มครองในสิทธิประกันสุขภาพถ้วน หน้า			
 จากมาตรา 41 หากบุคลากรทางการแพทย์ให้การรักษาไม่เหมาะสม หรือผิดพลาด ผู้ป่วยหรือญาติสามารถเรียกร้องค่าชดเชยได้ 			
12. สิทธิประกันสุขภาพถ้วนหน้าไม่คุ้มครองการรักษาเกี่ยวกับโรคมะเร็ง			
13. สิทธิประกันสุขภาพถ้วนหน้าคุ้มครองเฉพาะยาในบัญชีหลักแห่งชาติ			
 สิทธิประกันสุขภาพถ้วนหน้าไม่ครอบคลุมกรณีส่งต่อผู้ป่วย (มี ค่าใช้จ่ายหากมีการส่งต่อ) 			
15. สิทธิประกันสุขภาพถ้วนหน้าคุ้มครองการผ่าตัดหัวใจ			

K2. ความรู้เกี่ยวกับประกันชิวิตภาคเอกชน

รายการคำถาม	ถูก	ผิด	ไม่ทรา
16. ประกันสุขภาพภาคเอกชนคุ้มครองโรคที่เป็นมาก่อนการทำประกัน			
17. ประกันสุขภาพภาคเอกชนคุ้มครองการรักษาด้านทัตกรรมทุกประเภท			
18. ผู้ประกันตนสามารถจ่ายเบี้ยประกันแบบรายเคือน ราย 3 เคือนราย 6 เคือน หรือ รายปี			
19. ประกันสุขภาพภาคเอกชนคุ้มครองการบาดเจ็บที่เกิดจากอุบัติเหตุ			
20. ประกันสุขภาพภาคเอกชนจะจ่ายตามผลประโยชน์ตามกรมธรรม์			
21. ประกันสุขภาพภาคเอกชนไม่คุ้มครองโรคที่เป็นมาแต่กำเนิด			
22. ประกันสุขภาพภาคเอกชนมีค่าชดเชยจากการนอนโรงพยาบาล			
23. ประกันสุขภาพภาคเอกชนจะไม่คุ้มครองการเจ็บป่วยใดๆในระยะ 30 วันหลังจากการทำประกัน			
24. กรมธรรม์จะสิ้นผลบังคับเมื่อผู้ประกันตนอายุครบ 70 ปีบริบูรณ์			
25. ประกันสุขภาพภาคเอกชนคุ้มครองการรักษาที่เกิดจากการดื่ม หรือ กินสารพิษเข้าร่างกาย			
26. ประกันสุขภาพภาคเอกชนคุ้มครองการรักษาเกี่ยวกับโรคจิตเวท			

รายการคำถาม	ពូก	ผิด	ไม่ทราบ
27. ประกันสุขภาพภาคเอกชนคุ้มครองการฉีดวัคซีนทุกชนิด			
28. หากผู้ประกันตนมีโรคที่เป็นมาก่อนการทำประกัน ต้องแถลงในใบ เซ็นสัญญา มิฉะนั้นบริษัทมีสิทธิ์บอกเลิกสัญญาได้			
29. ประกันสุขภาพภาคเอกชนไม่คุ้มครองการนอนในห้องไอ.ซี.ยู.			
30. ประกันสุขภาพภาคเอกชนคุ้มครองการรักษาจากการทำร้ายร่างกาย ตัวเอง			

ส่วนที่ ${f 3}$: เจตคติต่อการใช้สิทธิการรักษาพยาบาล กรุณาทำเครื่องหมาย $\sqrt{\ }$ ในช่องคำตอบที่ท่านเลือก ${f A1}$ เจตคติต่อสิทธิ์ประกันสุขภาพถ้วนหน้า

ปัจจัย	สำคัญ	ปานกลาง	ไม่สำคัญ
100110			
1. ครอบคลุมค่าใช้จ่ายในการรักษา			
2. คุณภาพของยา			
3. คุณภาพของการรักษา			
4. คุณภาพของการบริการ			
5. คุณภาพของบุคลากรทางการแพทย์			
6. ระยะเวลาในการรอรับการรักษา	หาวิทยาลัย		
7. ค่าชดเชย	IN UNIVERSIT	Y	
8. การเลือกสถานพยาบาลในการเข้ารับการรักษา			
9. ค่าใช้จ่ายในการทำประกัน			
10. ประโยชน์โดยรวม			

A2 เจตคติต่อประกันชีวิตภาคเอกชน

ปัจจัย	สำคัญ	ปานกลาง	ไม่สำคัญ
1. ครอบคลุมค่าใช้ง่ายในการรักษา			
2 201/00/10/2010			
2. คุณภาพของยา			

ปัจจัย	สำคัญ	ปานกลาง	ไม่สำคัญ
3. คุณภาพของการรักษา			
4. คุณภาพของการบริการ			
5. คุณภาพของบุคลากรทางการแพทย์			
6. ระยะเวลาในการรอรับการรักษา			
7. ค่าชดเชย			
8. การเลือกสถานพยาบาลในการเข้ารับการรักษา			
9. ค่าใช้จ่ายในการทำประกัน	11/12		
10. ประโยชน์โดยรวม			

ส่วนที่ 4: การเลือกใช้สิทธิต่อการรักษาพยาบาลหลังเกษียณ กรุณาทำเครื่องหมาย √ ในช่องคำตอบที่ท่านเลือก

รายการคำถาม	ใช้สิทธ์	ไม่ใช้สิทธิ์	ไม่แน่ใจ
1. หลังเกษียณท่านจะยังใช้สิทธิประกันสุขภาพ ถ้วนหน้า			
2. หลังเกษียณท่านจะใช้สิทธิประกันสุขภาพถ้วน หน้าและซื้อประกันชีวิตจากภาคเอกชนเพิ่มเติม	มาวิทยาลัย		

VITA

NAME: Supitcha Sumretphol

DATE OF BIRTH: 31st August 1990

E-MAIL: pong.rhapsody@gmail.com

MOBILE NUMBER: +6683-543-9638

EDUCATION:

M.P.H. (Policy and Management),

College of Public Health Sciences, Chulalongkorn University, 2015

Nursing Science (2nd Class Honor),

Assumption University, 2012

จุฬาลงกรณ์มหาวิทยาลัย Chill at onekorn University