

# CORE TABLE

BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM 2015  
(BRFSS 2015)

## Health Regional 7

Bureau of Non-communicable diseases  
Department of Disease Control

Dr. Kamolthip Vijitsoonthornkul and Mr. Kanthabhon Tabhun Analyst and Reporter  
12 October 2015

[www.ThaiNcd.com](http://www.ThaiNcd.com)  
[www.facebook.com/thaincd](http://www.facebook.com/thaincd)

สำนักโรคไม่ติดต่อ  
กรมควบคุมโรค

# CORE TABLE

## BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM 2015

(BRFSS 2015)

Health Regional 7

Bureau of Non-communicable diseases

Department of Disease Control

Dr. Kamolthip Vijitsoonthornkul and Mr. Kanthabhon Tabhun Analyst and Reporter

12 October 2015

**Table List**  
**Behavioral Risk Factor Surveillance System 2015 (Health Regional Level)**

**part 0 Demographic data**

Table 0 Population (gender, age, education level, personal income, religion, marital status, work and money status and family income) by municipal area

**Part 1 General health**

Table 1.1 How is your health in general? (GENHLTH)

Table 1.2 During the past 30 days, how many days did you have physical illness or injury ? (PSICKDAY)

Table 1.3 During the past 30 days, how many days did you have stress, depression, or problems with emotion? (MSICKDAY)

Table 1.4 During the past 30 days, how many days did poor physical or mental health keep you from doing your usual activities? (DISABDAY)

**Part 2 Accessibility to health services**

Table 2.1 Do you have universal coverage for health insurance ? (HLTINHNS)

Table 2.2 Do you have social security for health insurance? (HLTHINSS)

Table 2.3 Do you have private insurance for health insurance ? (HLTHINPRI)

Table 2.4 Do you have government welfare for health insurance? (HLTHINCIV)

Table 2.5 During the past 12 months, if you need to meet a doctor to cure your illness but you did not come due to health expenditure problem or not? (MONEPROB)

Table 2.6 How long has it been since you last visited a doctor for routine checkup? (CHECKUP)

Table 2.7 How long has it been since you last visited a dentist or dental health technician for an oral health examination? (LASTDENT)

**Part 3 Weight and height**

Table 3.1 How much is your BMI?

**Part 4 Vegetable and fruit intake**

Table 4.1 How many servings of fruit or vegetable did you eat in the past 7 days? (FRUIT&VEGET)

**Part 5 Tobacco**

Table 5.1 Are you a smoker of cigarettes?

Table 5.2 During the past 12 months, have you stopped smoking for one day or longer because you are trying to quit smoking? (STOPSM1)

**Part 6 Alcohol**

Table 6.1 During the past year, did you drink alcohol beverage such as whiskey, beer, wine, etc.? (DRNKALC)

Table 6.2 During the past 30 days, did you drink alcohol such as whiskey, beer, wine, or local beverage? (ALCOHOL30)

Table 6.3 During the past 30 days, how many times have you ever binge drunk? (male: drink greater than 5 standard drinks per occasion or female drink greater than 4 standard drinks per occasion) (DRNKGES5)

Table 6.4 During the past 30 days, have you ever had heavy drinking ? (male: average greater than 2 standard drinks per day or female : average greater than 1 standard drink)

**Part 7 Quality of life**

Table 7.1 How about your mobility, your self-care, your usual activities, your pain or discomfort, anxiety or depression today? (QLIFE)

**Part 8 Cholesterol**

Table 8.1 How long do you have your blood lipid checked by a health professional? (LASTCHOLE)

Table 8.2 Have you ever been told by a doctor, nurse, or public health professional that you have hyperlipidemia? (CHOLE)

**Part 9 Hypertension**

Table 9.1 How long have you checked your blood pressure by doctors, nurses, health personals, or health volunteer? (LASTBP)

Table 9.2 Have you ever been told by doctors, nurses, or public health personals that you have hypertension? (BPHIGH)

Table 9.3 How many times did you see a doctors or a nurse or a health personals for hypertension treatment in the last 12 months? (FRECARBP)

Table 9.4 How many times did you get a blood examination for renal function test and complication from hypertension which was ordered by doctor in the last 12 months? (HTRENEX)

**Part 10 Diabetes**

Table 10.1 How long have you been checked your blood sugar for diabetes by doctors, nurses, or public health personals? (LASTBLSU)

Table 10.2 Have you ever been told by doctors, nurses, or public health personals that you have diabetes? (DIABETS)

Table 10.3 How many times have you seen doctors, nurses, or public health personals for diabetes treatment for the last 12 month? (FRECARDI)

Table 10.4 How many times did you have your feet checked for any sores or irritations by doctors or nurses in the past 12 months? (FEETCHK)

Table 10.5 How many times in the past 12 months has a health professional checked youy blood for renal function test and other diabetes complicaations ? (RENALCHK)

Table 10.6 When was the last time you had an eye exam in which the pupils were dialated? (This would have made you temporarily sensitive to bright light.) (EYEEEXAM)

**Part 11 injury**

Table 11.1 In the last 12 months, how often did you use helmet when you rode a motorcycle? (HELMET)

Table 11.2 In the last 12 months, How often did you use helmet when you were a motorcycle passenger? (HELMETPA)

Table 11.3 In the past 12 months, how often did you fasten safety belt when you drove a car? (SEATBELT)

Table 11.4 How often did you feasten safety belt when you sat beside a driver in a car? (SEATBEPA)

**Part 12 Muscle and skeleton pain due to occupational work**

Table 12.1 In the past 30 days,do you have muscle pain or skeleton pain due to your occupations? (MUSSKELE)

**Part 13 Women (female age 35 -79 years)**

Table 13.1 When were the last time, you received a cervix cancer screening? (LASTPAP)

Table 13.2 When were the last time, you received a cervix cancer screening? (LASTPAP\_3y)

Table 13.3 When were the last time, you received a breast examined by a doctor, a nurse, or public health personal? (LSTBREEX)

Table 13.4 How long the lastime did you use family planing or contraception such as IUD, injectable contraception,pill contraception, sterilization? (LASTFP)

## Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

## part 0 Demographic data

Table 0 Population (gender, age, education level, personal income, religion, marital status, work and money status and family income) by municipal area

Population characters	Frequency	Percent	Municipal area		Out municipal area	
			Frequency	Percent	Frequency	Percent
<b>overall</b>	<b>1,550</b>	<b>100.0</b>	<b>791</b>	<b>48.8</b>	<b>759</b>	<b>51.2</b>
<b>gender</b>						
male	797	49.1	406	48.5	391	49.7
female	753	50.9	385	51.5	368	50.3
<b>age group</b>						
15-19 years	147	13.6	72	13.4	75	13.8
20-24 years	94	9.3	50	9.5	44	9.0
25-29 years	89	8.4	46	7.9	43	8.8
30-34 years	94	8.0	51	8.0	43	8.1
35-39 years	82	8.4	48	9.9	34	7.0
40-44 years	123	8.9	61	8.7	62	9.1
45-49 years	131	8.7	71	9.4	60	8.1
50-54 years	130	9.6	54	7.6	76	11.4
55-59 years	132	9.6	66	10.3	66	9.0
60-64 years	172	5.0	98	5.3	74	4.8
65-69 years	158	4.6	85	5.0	73	4.2
70-74 years	111	3.0	54	2.9	57	3.1
75-79 years	87	2.9	35	2.2	52	3.6
<b>education level</b>						
never attended school	21	0.6	11	0.8	10	0.5
lower pratom	164	5.7	55	3.2	109	8.0
pratom 1-6	695	38.4	340	35.7	355	40.9
pre-high school (matayom 3)	253	20.4	139	20.8	114	20.0
high school (matayom 6)/pre-vocational school	255	21.2	139	21.1	116	21.3
high-vocational school /college	57	5.6	34	6.5	23	4.8
university or upper	103	8.1	71	11.8	32	4.4
<b>personal income</b>						
no income	61	6.6	29	6.8	32	6.4
1-999 baht	195	7.6	89	7.1	106	7.9
1,000 - 4,999 baht	532	32.4	239	31.2	293	33.5
5,000 - 9,999 baht	353	27.9	179	25.4	174	30.3
10,000 - 24,999 baht	268	20.5	163	23.1	105	18.1
25,000 - 49,999 baht	57	4.0	40	5.4	17	2.7
50,000 baht and upper	14	1.0	8	1.0	6	1.1
<b>religion</b>						
buddhism	1,544	99.6	788	99.5	756	99.7
christianity	5	0.3	2	0.3	3	0.3
others	1	0.1	1	0.2	-	-

## Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

## part 0 Demographic data

Table 0 Population (gender, age, education level, personal income, religion, marital status, work and money status and family income) by municipal area (cont.)

Population characters	Frequency	Percent	Municipal area		Out municipal area	
			Frequency	Percent	Frequency	Percent
<b>marital status</b>						
single	321	28.7	175	30.6	146	26.8
a member of unmarried couple	63	4.7	38	5.7	25	3.8
married	970	57.9	476	54.9	494	60.8
separate	43	3.1	23	2.8	20	3.4
divorce	148	5.6	75	6.0	73	5.2
<b>work status</b>						
managers	3	0.8	2	1.4	1	0.4
professionals	42	3.9	29	5.4	13	2.4
technicians and associate professionals	29	3.5	15	3.3	14	3.7
clerical support workers	24	2.4	17	3.9	7	1.0
service and sales workers	84	10.8	68	16.6	16	5.3
skilled agricultural, forestry and fishery workers	47	4.8	29	6.5	18	3.1
craft and related trades workers	305	26.0	105	17.6	200	33.9
plant and machine operators and assemblers	3	0.4	-	0.0	3	0.8
elementary occupations	485	46.6	251	44.0	234	49.1
armed forces occupations	8	0.80	7	1.3	1	0.3
<b>money status</b>						
have not enough money and have debt for daily expenditure	451	27.4	195	22.6	256	32.0
pay carefully and economize	819	55.1	451	59.5	368	50.9
had enough situation	144	9.3	82	11.2	62	7.4
good economic situation	104	8.2	48	6.7	56	9.7
<b>family income</b>						
no income	5	0.4	-	-	5	0.7
1- 999 baht	22	1.1	15	1.6	7	0.6
1,000 - 4,999 baht	201	11.2	81	8.7	120	13.5
5,000 - 9,999 baht	305	24.1	138	21.4	167	26.7
10,000 - 24,999 baht	481	38.8	265	41.0	216	36.8
25,000 - 49,999 baht	184	16.0	104	17.5	80	14.7
50,000 - 99,999 baht	80	7.3	51	8.3	29	6.3
100,000 - 499,999 baht	13	1.0	9	1.5	4	0.6
500,000 baht and upper	-	-	-	-	-	-

## Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

## Part 1 General health

Table 1.1 How is your health in general? (GENHLTH)

Variable	Frequency	WgtFreq	Excellent or very good or good				Fair or poor			
			frequency	Percent	LowerCL	UpperCL	frequency	Percent	LowerCL	UpperCL
overall	1,547	3,412,399	1,005	72.7	44.8	100.0	542	27.3	0.0	55.2
municipal area	790	1,665,683	507	69.2	55.4	83.0	283	30.8	17.0	44.6
out municipal area	757	1,746,716	498	76.0	36.6	100.0	259	24.0	0.0	63.4
male	796	1,677,590	554	77.2	60.3	94.1	242	22.8	5.9	39.7
female	751	1,734,810	451	68.3	29.4	100.0	300	31.7	0.0	70.6
15-24 years	239	762,443	217	92.5	74.4	100.0	22	7.5	0.0	25.6
25-34 years	183	564,259	147	83.9	27.0	100.0	36	16.1	0.0	73.0
35-44 years	205	593,620	146	71.7	70.5	73.0	59	28.3	27.0	29.5
45-54 years	261	628,427	173	66.0	50.2	81.8	88	34.0	18.2	49.8
55-64 years	304	502,484	167	58.4	0.0	100.0	137	41.6	0.0	100.0
65-74 years	268	261,698	125	49.0	34.2	63.8	143	51.0	36.2	65.8
75-79 years	87	99,468	30	39.4	0.0	87.0	57	60.6	13.0	100.0
never attended school	21	21,874	5	27.9	0.0	100.0	16	72.1	0.0	100.0
pratoon 1-6	858	1,510,651	481	61.4	53.7	69.1	377	38.6	30.9	46.3
matayoom 1-6	506	1,406,801	392	82.0	23.2	100.0	114	18.0	0.0	76.8
college/certificate	57	193,697	42	76.6	37.7	100.0	15	23.4	0.0	62.3
university or upper	103	276,523	83	87.6	83.0	92.3	20	12.4	7.7	17.0
no income	61	211,576	48	81.4	53.1	100.0	13	18.6	0.0	46.9
1-4,999 baht	725	1,272,657	415	66.6	26.3	100.0	310	33.4	0.0	73.7
5,000-9,999 baht	353	899,379	248	74.5	50.0	99.1	105	25.5	0.9	50.0
10,000 baht upper	338	810,929	245	77.6	64.6	90.6	93	22.4	9.4	35.4

Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 1 General health

Table 1.2 During the past 30 days, how many days did you have physical illness or injury? (PSICKDAY)

Variable	Frequency	WgtFreq	0 day				1-2 days				3-7 days				8-30 days			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,550	3,435,708	1,135	78.6	29.4	100.0	128	6.7	5.3	8.0	185	9.8	0.0	37.3	102	4.9	0.0	25.3
municipal area	791	1,678,025	579	77.9	40.7	100.0	71	7.8	7.6	8.0	86	9.2	0.0	24.7	55	5.2	0.0	27.0
out municipal area	759	1,757,683	556	79.3	19.0	100.0	57	5.6	3.5	7.8	99	10.5	0.0	49.8	47	4.6	0.0	23.5
male	797	1,687,737	613	82.8	41.4	100.0	63	5.8	0.0	17.9	82	7.9	0.0	21.3	39	3.4	0.0	19.5
female	753	1,747,970	522	74.5	17.3	100.0	65	7.5	0.0	16.4	103	11.7	0.0	53.0	63	6.3	0.0	31.1
15-24 years	241	784,933	205	87.3	60.0	100.0	6	3.0	0.0	13.8	22	7.1	0.0	42.7	8	2.6	0.1	5.1
25-34 years	183	564,259	138	80.0	36.7	100.0	14	7.0	0.0	19.3	20	7.9	0.0	39.0	11	5.1	0.0	29.7
35-44 years	205	593,620	157	80.8	39.9	100.0	12	3.5	0.0	7.8	22	8.7	0.0	40.2	14	7.0	1.9	12.1
45-54 years	261	628,427	190	73.5	19.3	100.0	27	10.3	9.4	11.2	30	12.7	0.0	36.0	14	3.5	0.0	35.3
55-64 years	304	502,484	216	75.5	10.1	100.0	30	8.4	0.0	32.4	36	11.1	8.1	14.2	22	5.0	0.0	43.3
65-74 years	269	262,517	179	68.2	0.0	100.0	31	11.9	0.8	22.9	41	14.2	0.0	39.6	18	5.7	0.0	50.4
75-79 years	87	99,468	50	64.6	0.0	100.0	8	7.5	7.4	7.7	14	13.1	0.0	77.0	15	14.8	0.0	32.5
never attended school	21	21,874	13	57.1	0.0	100.0	2	14.2	0.0	100.0	4	23.8	0.0	100.0	2	4.9	2.1	7.8
pratoon 1-6	859	1,511,470	595	74.9	9.1	100.0	80	7.9	4.6	11.2	115	11.2	0.0	44.9	69	6.1	0.0	34.8
matayoom 1-6	508	1,429,291	401	82.4	39.2	100.0	31	5.2	2.7	7.6	54	9.0	0.0	34.7	22	3.4	0.0	18.5
college/certificate	57	193,697	43	78.0	60.3	95.7	6	7.8	0.0	29.2	6	11.1	10.7	11.5	2	3.1	0.0	41.9
university or upper	103	276,523	81	81.1	67.8	94.4	9	6.4	0.0	17.7	6	5.3	0.0	15.2	7	7.2	0.0	15.1
no income	61	211,576	50	86.0	62.3	100.0	4	6.2	0.0	26.0	4	5.2	0.0	14.1	3	2.6	0.0	37.2
1-4,999 baht	727	1,285,818	502	73.1	12.4	100.0	60	7.0	6.3	7.8	108	13.7	0.0	52.4	57	6.2	0.0	27.4
5,000-9,999 baht	353	899,379	253	79.9	7.8	100.0	33	6.2	0.0	22.0	42	8.6	0.0	47.4	25	5.3	0.0	22.8
10,000 baht upper	339	821,077	269	80.2	79.7	80.6	28	8.0	0.0	18.0	29	8.4	2.0	14.8	13	3.4	0.0	19.4



Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 1 General health

Table 1.3 During the past 30 days, how many days did you has stress, depression, or problems with emotion? (MSICKDAY)

Variable	Frequency	WgtFreq	0 day				1-2 days				3-7 days				8-30 days			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,550	3,435,708	1,309	86.4	78.5	94.2	86	5.0	0.8	9.2	107	5.3	0.0	17.2	48	3.3	3.1	3.5
municipal area	791	1,678,025	684	87.4	76.6	98.2	38	4.2	3.7	4.7	55	5.6	0.0	19.2	14	2.8	0.4	5.2
out municipal area	759	1,757,683	625	85.4	79.8	91.0	48	5.8	0.0	13.1	52	5.1	0.0	15.1	34	3.7	0.8	6.6
male	797	1,687,737	700	90.9	79.4	100.0	36	3.5	1.4	5.6	41	3.1	0.0	9.1	20	2.5	0.0	5.8
female	753	1,747,970	609	82.0	77.1	86.8	50	6.5	0.0	16.6	66	7.5	0.0	25.2	28	4.0	1.3	6.8
15-24 years	241	784,933	210	87.2	84.9	89.5	13	4.9	0.5	9.4	10	3.0	0.0	21.1	8	4.8	0.0	16.1
25-34 years	183	564,259	159	88.7	35.4	100.0	8	3.1	0.0	16.6	9	5.5	0.0	16.1	7	2.7	0.0	32.0
35-44 years	205	593,620	174	87.7	74.7	100.0	11	5.1	3.6	6.7	12	4.0	0.0	21.3	8	3.2	0.4	6.0
45-54 years	261	628,427	226	86.7	76.3	97.1	12	4.8	0.0	16.9	22	7.7	1.7	13.7	1	0.8	0.0	5.0
55-64 years	304	502,484	255	84.5	74.0	95.0	20	7.4	0.0	26.8	21	5.5	0.1	10.9	8	2.6	0.0	6.1
65-74 years	269	262,517	222	83.9	73.4	94.5	15	3.5	0.0	23.3	21	6.0	0.0	18.1	11	6.5	0.0	27.8
75-79 years	87	99,468	63	72.0	47.4	96.7	7	9.3	0.0	50.0	12	13.0	7.1	18.9	5	5.7	0.0	27.7
never attended school	21	21,874	19	87.9	75.2	100.0	0	0.0	0.0	0.0	2	12.1	0.0	24.8	0	0.0	0.0	0.0
pratoon 1-6	859	1,511,470	706	84.4	77.0	91.7	55	6.3	0.2	12.5	68	6.1	0.0	20.4	30	3.2	2.4	4.0
matayoom 1-6	508	1,429,291	444	88.4	77.0	99.8	24	4.2	0.0	8.4	28	4.2	0.0	22.5	12	3.2	0.4	6.0
college/certificate	57	193,697	50	86.9	84.9	89.0	0	0.0	0.0	0.0	6	11.2	0.0	36.0	1	1.9	0.0	24.6
university or upper	103	276,523	88	86.0	82.4	89.6	7	6.0	2.7	9.3	3	2.7	0.0	6.7	5	5.3	0.9	9.7
no income	61	211,576	58	95.7	92.6	98.8	2	3.3	0.0	13.9	1	1.0	0.0	14.7	0	0.0	0.0	0.0
1-4,999 baht	727	1,285,818	591	81.8	76.5	87.1	48	6.2	0.0	17.1	55	6.3	0.0	16.3	33	5.6	1.1	10.1
5,000-9,999 baht	353	899,379	311	91.0	66.3	100.0	15	3.1	0.0	9.4	21	3.8	0.0	23.3	6	2.1	1.0	3.2
10,000 baht upper	339	821,077	282	83.7	83.3	84.2	19	5.8	0.0	12.8	29	7.9	4.6	11.2	9	2.6	0.0	6.8

Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 1 General health

Table 1.4 During the past 30 days, how many days did poor physical or mental health keep you from doing your usual activities? (DISABDAY)

Variable	Frequency	WgtFreq	0 day				1-2 days				3-7 days				8-30 days			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,550	3,435,708	1,484	95.8	94.2	97.4	26	2.2	0.0	8.9	26	1.1	0.0	3.6	14	0.9	0.0	3.5
municipal area	791	1,678,025	751	94.9	89.6	100.0	15	2.8	0.0	16.1	15	1.0	0.0	4.1	10	1.3	0.0	6.2
out municipal area	759	1,757,683	733	96.7	95.2	98.1	11	1.6	0.9	2.3	11	1.3	0.0	3.2	4	0.5	0.3	0.7
male	797	1,687,737	767	97.4	90.6	100.0	10	1.2	0.8	1.5	13	0.7	0.0	4.2	7	0.7	0.0	4.4
female	753	1,747,970	717	94.3	84.8	100.0	16	3.1	0.0	15.8	13	1.5	0.0	3.1	7	1.0	0.0	2.6
15-24 years	241	784,933	234	96.4	88.8	100.0	3	2.3	0.0	10.8	3	1.1	0.4	1.8	1	0.1	0.0	1.6
25-34 years	183	564,259	177	97.3	75.7	100.0	1	0.5	0.0	3.1	2	0.8	0.0	9.8	3	1.4	0.0	16.5
35-44 years	205	593,620	194	94.3	89.9	98.7	8	3.6	0.0	7.7	2	0.5	0.0	6.7	1	1.5	0.0	8.0
45-54 years	261	628,427	249	94.4	71.8	100.0	8	4.0	0.0	22.0	2	0.7	0.0	2.5	2	0.9	0.0	3.7
55-64 years	304	502,484	292	96.9	93.8	99.9	2	0.4	0.0	2.5	7	2.1	0.8	3.5	3	0.6	0.0	4.3
65-74 years	269	262,517	259	97.8	78.9	100.0	2	0.5	0.0	6.5	6	1.2	0.0	9.1	2	0.4	0.0	5.5
75-79 years	87	99,468	79	89.8	82.0	97.6	2	3.3	0.0	17.9	4	4.3	0.0	14.8	2	2.6	0.0	19.8
never attended school	21	21,874	21	100.0	100.0	100.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0
pratoon 1-6	859	1,511,470	815	94.3	88.4	100.0	14	2.4	0.0	7.5	19	1.8	0.7	2.9	11	1.5	1.2	1.7
matayoom 1-6	508	1,429,291	490	96.7	94.9	98.5	10	2.4	0.0	13.0	7	0.8	0.0	8.1	1	0.1	0.0	1.7
college/certificate	57	193,697	55	96.8	79.7	100.0	1	1.4	0.0	7.1	0	0.0	0.0	0.0	1	1.9	0.0	24.6
university or upper	103	276,523	101	98.7	84.9	100.0	1	0.4	0.0	5.3	0	0.0	0.0	0.0	1	0.8	0.0	9.8
no income	61	211,576	60	99.0	85.3	100.0	0	0.0	0.0	0.0	1	1.0	0.0	14.7	0	0.0	0.0	0.0
1-4,999 baht	727	1,285,818	686	93.1	84.7	100.0	12	3.1	0.0	14.4	18	2.0	0.0	4.7	11	1.8	1.8	1.9
5,000-9,999 baht	353	899,379	343	98.2	86.5	100.0	3	0.4	0.0	3.8	5	0.8	0.0	3.5	2	0.5	0.0	6.2
10,000 baht upper	339	821,077	326	96.4	85.7	100.0	10	2.8	0.0	15.0	2	0.5	0.0	2.2	1	0.3	0.0	3.3

Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 10 Diabetes

Table 10.1 How long have you been checked your blood sugar for diabetes by doctors, nurses, or public health personals? (LASTBLSU)

Variable	Frequency	WgtFreq	Within past 1 year ago				Within past 1 to 2 years ago				More than 2 year ago				Never			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,527	3,382,663	940	52.0	35.5	68.5	98	7.0	6.5	7.4	87	6.5	0.0	14.3	402	34.5	26.3	42.8
municipal area	779	1,649,470	483	50.2	12.0	88.5	51	7.1	4.9	9.3	34	5.8	0.0	18.3	211	36.9	8.9	64.9
out municipal area	748	1,733,193	457	53.6	50.2	57.1	47	6.9	3.8	9.9	53	7.3	4.3	10.2	191	32.2	22.8	41.7
male	784	1,657,565	425	45.3	43.8	46.8	58	7.2	6.1	8.3	42	5.5	0.0	11.5	259	42.0	38.6	45.3
female	743	1,725,099	515	58.4	26.8	90.0	40	6.7	4.8	8.7	45	7.5	0.0	17.0	143	27.4	7.2	47.6
15-24 years	240	781,394	54	22.1	0.0	44.5	13	6.7	0.0	31.6	8	2.6	0.0	21.0	165	68.6	39.7	97.5
25-34 years	176	543,431	71	36.5	24.7	48.2	18	10.1	4.6	15.6	11	7.0	4.6	9.4	76	46.4	31.5	61.3
35-44 years	200	581,442	106	46.4	14.4	78.4	17	7.8	0.0	48.3	15	10.5	0.0	36.1	62	35.3	0.0	82.2
45-54 years	257	617,438	186	73.4	48.9	97.9	11	4.4	2.2	6.6	15	5.7	0.0	13.7	45	16.5	2.2	30.8
55-64 years	301	498,522	234	74.7	29.7	100.0	19	7.5	0.0	25.2	17	8.3	0.0	29.4	31	9.6	3.4	15.8
65-74 years	267	261,550	222	84.8	75.0	94.6	17	5.6	5.1	6.2	11	3.5	3.0	4.0	17	6.1	0.0	15.9
75-79 years	86	98,888	67	71.5	7.4	100.0	3	3.4	0.0	23.0	10	16.0	0.0	85.1	6	9.2	0.0	23.9
never attended school	21	21,874	16	77.3	3.8	100.0	1	7.8	0.0	78.6	1	2.8	0.0	28.0	3	12.1	0.0	34.7
pratoon 1-6	847	1,488,220	602	64.5	43.2	85.7	49	5.8	2.0	9.6	52	8.8	0.0	37.7	144	20.9	9.5	32.3
matayoom 1-6	503	1,416,657	233	40.5	33.6	47.4	35	6.8	4.5	9.1	23	4.1	0.0	15.5	212	48.6	27.9	69.2
college/certificate	54	183,105	28	38.3	0.0	79.9	2	7.6	0.0	35.8	5	7.5	0.0	46.8	19	46.7	0.0	99.4
university or upper	100	269,954	60	50.8	15.0	86.6	11	13.6	0.0	29.4	6	6.4	0.0	27.9	23	29.2	0.0	59.3
no income	61	211,576	22	28.6	0.0	60.3	0				4	14.6	0.0	61.0	35	56.8	42.0	71.6
1-4,999 baht	719	1,265,846	488	59.6	55.1	64.2	33	4.9	0.0	11.5	45	6.1	0.0	12.7	153	29.4	11.6	47.1
5,000-9,999 baht	348	890,035	189	48.8	37.1	60.4	31	9.4	0.0	25.5	20	6.4	1.0	11.7	108	35.4	34.5	36.4
10,000 baht upper	332	802,274	210	55.4	37.0	73.9	32	10.8	0.0	28.3	15	4.3	2.9	5.7	75	29.5	0.0	64.0

## Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

## Part 10 Diabetes

Table 10.2 Have you ever been told by doctors, nurses, or public health persons that you have diabetes? (DIABETS)

Variable	Frequency	WgtFreq	Yes				No			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,133	2,233,192	146	10.1	0.0	27.0	987	89.9	73.0	100.0
municipal area	574	1,055,725	82	9.4	4.8	13.9	492	90.6	86.1	95.2
out municipal area	559	1,177,466	64	10.7	0.0	37.9	495	89.3	62.1	100.0
male	527	968,297	56	8.3	0.0	22.3	471	91.7	77.7	100.0
female	606	1,264,895	90	11.4	0.0	30.9	516	88.6	69.1	100.0
15-24 years	76	248,963	0	0.0	0.0	0.0	76	100.0	100.0	100.0
25-34 years	103	298,949	1	0.4	0.0	4.2	102	99.6	95.8	100.0
35-44 years	139	378,535	4	2.3	1.8	2.7	135	97.7	97.3	98.2
45-54 years	214	520,105	27	14.4	0.0	59.9	187	85.6	40.1	100.0
55-64 years	269	450,055	42	14.7	0.0	35.7	227	85.3	64.3	100.0
65-74 years	251	246,186	62	27.0	0.0	59.1	189	73.0	40.9	100.0
75-79 years	81	90,398	10	9.1	0.0	30.4	71	90.9	69.6	100.0
never attended school	18	19,220	5	32.6	0.0	100.0	13	67.4	0.0	100.0
pratoon 1-6	708	1,185,261	119	14.8	0.0	32.7	589	85.2	67.3	100.0
matayoom 1-6	290	729,095	14	4.6	0.0	15.4	276	95.4	84.6	100.0
college/certificate	37	104,756	3	4.0	0.0	16.3	34	96.0	83.7	100.0
university or upper	79	194,083	4	2.8	0.0	11.5	75	97.2	88.5	100.0
no income	26	91,371	1	2.4	0.0	9.3	25	97.6	90.7	100.0
1-4,999 baht	569	901,893	93	14.8	0.0	34.8	476	85.2	65.2	100.0
5,000-9,999 baht	238	570,123	22	5.5	0.1	10.8	216	94.5	89.2	99.9
10,000 baht upper	262	579,471	26	8.6	0.0	45.0	236	91.4	55.0	100.0

## Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

## Part 10 Diabetes

Table 10.3 How many times have you seen doctors, nurses, or public health personals for diabetes treatment for the last 12 month? (FRECARDI)

variable	Frequency	WgtFreq	Never				One or two times per year				Three or four times per year				Five or six times per year				More than six times per year			
			Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl
overall	146	228,038	14	15.5	0.0	47.7	4	1.5	0.0	4.6	49	31.2	0.0	84.4	56	39.3	0.0	96.7	23	12.6	0.0	37.6
municipal area	82	101,819	7	14.8	0.0	55.8	2	1.5	0.0	3.6	33	41.0	0.0	100.0	26	27.6	0.0	100.0	14	15.0	0.0	54.5
out municipal area	64	126,219	7	16.0	0.0	39.6	2	1.4	0.0	5.3	16	23.2	0.0	48.0	30	48.6	36.0	61.2	9	10.7	3.1	18.2
male	55	79,835	5	15.4	0.0	41.5	2	1.9	0.0	8.0	20	36.1	0.0	94.4	23	40.5	0.0	100.0	5	6.1	0.0	14.8
female	91	148,202	9	15.5	0.0	51.1	2	1.2	0.0	2.8	29	28.5	0.0	78.4	33	38.6	0.0	89.7	18	16.2	0.0	48.9
15-24 years																						
25-34 years	2	4,635	2	100.0	100.0	100.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0
35-44 years	4	8,545	0	0.0	0.0	0.0	0	0.0	0.0	0.0	3	70.1	0.0	100.0	1	29.9	0.0	100.0	0	0.0	0.0	0.0
45-54 years	27	74,913	4	23.8	0.0	84.1	1	1.7	0.0	6.2	5	17.3	0.0	61.2	10	40.8	0.0	100.0	7	16.4	0.0	63.7
55-64 years	42	66,101	3	14.1	0.0	49.7	0	0.0	0.0	0.0	15	28.2	0.0	82.6	19	46.6	28.2	65.0	5	11.0	10.6	11.5
65-74 years	61	65,574	5	5.3	0.0	15.9	2	2.2	0.0	6.9	23	46.4	0.0	100.0	21	33.7	0.0	100.0	10	12.4	0.0	62.9
75-79 years	10	8,269	0	0.0	0.0	0.0	1	7.1	0.0	75.0	3	37.7	0.0	100.0	5	42.1	0.0	100.0	1	13.1	0.0	100.0
never attended school	5	6,260	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	9.5	9.5	9.5	4	90.5	90.5	90.5	0	0.0	0.0	0.0
pratoon 1-6	119	175,243	13	18.1	0.0	55.7	4	1.9	0.0	5.7	38	27.1	0.0	61.8	44	37.7	0.0	81.9	20	15.1	0.0	39.4
matayoom 1-6	14	33,308	0	0.0	0.0	0.0	0	0.0	0.0	0.0	6	47.3	0.0	100.0	5	45.7	0.0	100.0	3	7.0	0.0	42.1
college/certificate	3	4,233	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	48.0	0.0	100.0	2	52.0	0.0	100.0	0	0.0	0.0	0.0
university or upper	5	8,993	1	39.4	0.0	100.0	0	0.0	0.0	0.0	3	57.6	31.6	83.7	1	3.0	0.0	46.2	0	0.0	0.0	0.0
no income	1	2,201	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	100.0	100.0	100.0
1-4,999 baht	93	133,642	7	12.5	0.0	41.7	2	1.1	0.0	3.3	30	24.0	0.0	48.7	39	50.1	28.4	71.8	15	12.3	0.0	42.2
5,000-9,999 baht	23	34,633	4	16.8	0.0	53.5	0	0.0	0.0	0.0	7	36.4	0.0	100.0	8	33.2	0.0	100.0	4	13.6	0.0	85.1
10,000 baht upper	25	49,018	2	14.6	0.0	32.9	2	3.9	0.0	18.8	11	52.2	13.0	91.4	7	18.1	0.0	74.6	3	11.2	0.0	25.3
	62	131,313	17	39.1	0.0	100.0	3	2.7	0.0	19.5	22	32.3	0.0	100.0	11	17.3	0.0	79.0	9	8.6	0.7	16.4



## Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

## Part 10 Diabetes

Table 10.4 How many times did you have your feet checked for any sores or irritations by doctors or nurses in the past 12 months? (FEETCHK)

Variable	Frequency	WgtFreq	Never				One or two times per year				Three or four times per year				Five or six times per year				More than six times per year			
			Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl
overall	146	228,038	81	56.9	17.2	96.7	37	27.0	10.9	43.1	21	11.8	0.0	27.4	4	2.5	0.0	10.6	3	1.8	1.7	1.8
municipal area	82	101,819	48	60.2	0.0	100.0	23	26.1	0.0	66.5	9	11.5	0.0	40.3	1	0.7	0.0	4.2	1	1.5	0.0	8.9
out municipal area	64	126,219	33	54.3	53.7	54.9	14	27.7	22.1	33.3	12	12.1	8.2	16.1	3	3.9	0.0	11.6	2	2.0	0.0	8.7
male	55	79,835	31	63.4	3.4	100.0	12	16.0	0.0	32.4	8	16.0	0.0	45.3	3	2.4	0.0	10.1	1	2.1	0.0	8.8
female	91	148,202	50	53.4	23.8	83.1	25	32.9	15.5	50.3	13	9.6	2.0	17.1	1	2.5	0.0	10.9	2	1.6	0.0	5.3
15-24 years																						
25-34 years	2	4,635	2	100.0	100.0	100.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0
35-44 years	4	8,545	3	79.4	0.0	100.0	1	20.6	0.0	100.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0
45-54 years	27	74,913	15	53.9	0.0	100.0	6	28.4	0.0	67.3	5	12.8	2.6	23.1	1	4.9	0.0	17.3	0	0.0	0.0	0.0
55-64 years	42	66,101	24	66.3	35.1	97.5	10	19.0	0.0	47.5	7	12.1	1.6	22.7	0	0.0	0.0	0.0	1	2.6	0.0	10.4
65-74 years	61	65,574	31	44.5	0.0	100.0	18	36.8	16.1	57.6	8	13.0	0.0	53.1	2	2.1	0.0	9.7	2	3.6	0.0	10.8
75-79 years	10	8,269	6	60.6	0.0	100.0	2	22.3	0.0	72.8	1	9.9	0.0	78.2	1	7.2	0.0	56.9	0	0.0	0.0	0.0
never attended school	5	6,260	4	79.2	79.2	79.2	1	20.8	20.8	20.8	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0
pratoon 1-6	119	175,243	64	61.8	43.6	79.9	32	22.0	16.5	27.6	17	11.1	0.0	25.0	3	2.8	0.0	12.4	3	2.3	2.1	2.5
matayoom 1-6	14	33,308	8	28.9	0.0	100.0	4	65.1	0.0	100.0	1	3.9	0.0	15.8	1	2.2	0.0	8.7	0	0.0	0.0	0.0
college/certificate	3	4,233	2	52.0	0.0	100.0	0	0.0	0.0	0.0	1	48.0	0.0	100.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0
university or upper	5	8,993	3	53.3	8.0	98.7	0	0.0	0.0	0.0	2	46.7	1.3	92.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0
no income	1	2,201	0	0.0	0.0	0.0	1	100.0	100.0	100.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0
1-4,999 baht	93	133,642	51	58.3	44.5	72.0	25	28.7	23.0	34.3	13	10.4	2.4	18.4	2	0.9	0.0	4.4	2	1.8	0.0	5.1
5,000-9,999 baht	23	34,633	15	63.9	0.0	100.0	4	13.9	0.0	47.8	3	17.4	0.0	75.7	0	0.0	0.0	0.0	1	4.9	0.0	30.5
10,000 baht upper	25	49,018	13	47.0	10.4	83.6	6	31.2	21.8	40.7	4	12.8	0.0	28.8	2	8.9	0.0	20.1	0	0.0	0.0	0.0





Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 10 Diabetes

Table 10.5 How many times in the past 12 months has a health professional checked your blood for renal function test and other diabetes complications? (RENALCHK)

variable	Frequency	WgtFreq	Every 1 to 3 months				Every 4 to 6 months				Every 7 to 12 months				Once a year or longer				Never			
			Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl
overall	136	198,470	38	26.0	12.9	39.2	18	12.5	0.0	25.2	49	40.0	28.5	51.4	12	10.2	8.4	12.0	19	11.3	2.0	20.5
municipal area	76	86,617	21	29.4	5.0	53.7	6	11.0	0.0	26.4	27	34.2	22.7	45.6	9	9.8	0.0	44.6	13	15.6	0.0	32.0
out municipal area	60	111,853	17	23.5	0.0	56.2	12	13.6	7.1	20.2	22	44.5	39.5	49.5	3	10.5	0.0	33.2	6	7.9	0.0	16.4
male	51	67,289	13	24.9	4.0	45.7	8	14.1	0.0	66.8	19	37.5	0.0	83.5	3	11.0	0.0	36.3	8	12.6	1.5	23.7
female	85	131,180	25	26.6	17.5	35.8	10	11.7	3.9	19.4	30	41.3	0.3	82.3	9	9.8	0.0	25.6	11	10.6	2.2	18.9
15-24 years																						
25-34 years	1	1,092	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	100.0	100.0	100.0
35-44 years	4	8,545	0	0.0	0.0	0.0	2	53.7	0.0	100.0	2	46.3	0.0	100.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0
45-54 years	26	64,701	6	23.2	0.0	70.1	2	4.8	0.0	19.1	11	47.9	0.0	100.0	2	8.0	5.8	10.3	5	16.0	0.0	37.2
55-64 years	39	56,754	10	30.2	0.0	100.0	6	16.6	0.0	38.8	17	37.7	0.0	86.5	4	12.8	0.0	30.7	2	2.7	1.0	4.3
65-74 years	57	60,192	19	28.2	0.0	67.2	7	11.4	0.0	47.5	16	35.4	0.0	86.2	5	10.4	9.7	11.1	10	14.6	0.0	61.7
75-79 years	9	7,186	3	35.3	0.0	100.0	1	11.4	0.0	100.0	3	23.7	0.0	100.0	1	21.3	0.0	100.0	1	8.3	0.0	74.0
never attended school	5	6,260	2	41.0	41.0	41.0	0	0.0	0.0	0.0	3	59.0	59.0	59.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0
pratoon 1-6	111	150,982	31	27.4	5.7	49.1	15	13.6	5.3	21.8	37	32.2	25.4	38.9	11	12.9	6.0	19.7	17	14.0	13.8	14.3
matayoom 1-6	13	31,545	2	4.9	0.0	32.9	2	10.6	0.0	44.5	8	81.8	52.5	100.0	1	2.7	0.0	37.9	0	0.0	0.0	0.0
college/certificate	3	4,233	1	48.0	0.0	100.0	0	0.0	0.0	0.0	1	31.1	0.0	100.0	0	0.0	0.0	0.0	1	20.8	0.0	100.0
university or upper	4	5,450	2	77.0	63.8	90.2	1	18.1	0.0	70.7	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	4.9	0.0	70.7
no income	1	2,201	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	100.0	100.0	100.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0
1-4,999 baht	86	116,637	25	26.6	0.0	80.1	10	12.3	7.4	17.3	30	37.6	0.0	82.0	8	11.1	0.0	24.1	13	12.3	11.2	13.4
5,000-9,999 baht	22	31,090	4	17.4	0.0	82.8	3	14.3	0.0	98.2	10	54.3	22.5	86.1	3	9.4	0.0	79.6	2	4.5	0.0	51.7
10,000 baht upper	24	45,520	8	30.7	17.4	43.9	4	11.3	0.0	26.4	7	34.1	14.8	53.3	1	9.6	0.0	22.4	4	14.4	0.0	36.4



## Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

## Part 10 Diabetes

Table 10.6 When was the last time you had an eye exam in which the pupils were dilated? (This would have made you temporarily sensitive to bright light.) (EYEXAM)

Variable	Frequency	WgtFreq	Within 1 year ago				Within 1 to 2 years ago				More than 2 years ago				Never			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	139	210,935	78	53.6	51.1	56.1	28	18.9	0.0	38.0	7	7.0	2.0	11.9	26	20.5	8.9	32.1
municipal area	77	95,751	44	45.5	31.3	59.7	13	15.6	0.0	63.9	5	9.9	2.0	17.8	15	29.0	0.0	83.6
out municipal area	62	115,184	34	60.3	58.2	62.4	15	21.7	19.4	24.1	2	4.5	0.0	13.8	11	13.5	8.6	18.3
male	52	75,532	24	42.8	23.0	62.6	14	23.3	0.0	49.7	3	6.7	0.0	36.1	11	27.2	10.2	44.2
female	87	135,403	54	59.6	53.9	65.3	14	16.5	0.0	61.6	4	7.1	0.0	31.2	15	16.8	0.0	43.4
15-24 years	2	4,635	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	2	100.0	100.0	100.0
25-34 years	4	8,545	3	70.1	0.0	100.0	1	29.9	0.0	100.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0
35-44 years	26	64,701	15	57.6	0.0	100.0	3	15.8	0.0	62.1	2	6.7	0.0	45.9	6	19.9	0.0	78.3
45-54 years	41	65,324	21	43.6	41.1	46.1	10	18.2	8.7	27.8	3	11.4	0.0	45.0	7	26.7	5.2	48.2
55-64 years	56	59,461	33	61.8	38.7	84.8	11	20.5	0.0	43.2	2	4.8	0.0	20.9	10	13.0	0.0	29.5
65-74 years	10	8,269	6	55.3	0.0	100.0	3	37.5	0.0	100.0	0	0.0	0.0	0.0	1	7.2	0.0	56.9
75-79 years	5	6,260	3	39.8	39.8	39.8	0	0.0	0.0	0.0	0	0.0	0.0	0.0	2	60.2	60.2	60.2
never attended school	114	160,786	63	50.6	44.9	56.3	26	22.5	0.0	48.1	4	6.0	0.0	26.8	21	20.9	20.0	21.9
pratoon 1-6	13	31,545	9	85.2	0.0	100.0	1	1.1	0.0	15.0	2	9.6	0.0	99.8	1	4.1	0.0	17.4
matayoom 1-6	2	3,351	1	39.3	0.0	100.0	0	0.0	0.0	0.0	1	60.7	0.0	100.0	0	0.0	0.0	0.0
college/certificate	5	8,993	2	10.7	0.0	100.0	1	38.9	0.0	100.0	0	0.0	0.0	0.0	2	50.4	0.0	100.0
university or upper	1	2,201	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	100.0	100.0	100.0
no income	89	119,081	55	62.3	28.0	96.7	17	18.5	0.0	48.1	3	5.3	0.0	27.2	14	13.9	0.0	40.7
1-4,999 baht	23	34,633	14	59.5	0.0	100.0	4	17.1	0.0	42.1	1	6.7	0.0	81.6	4	16.7	0.0	52.9
5,000-9,999 baht	22	46,476	7	34.7	19.1	50.4	6	23.8	22.0	25.5	3	13.1	7.6	18.6	6	28.4	16.5	40.3
10,000 baht upper	55	104,405	30	49.9	0.0	100.0	3	3.4	0.0	28.1	5	5.2	0.0	38.5	17	41.6	0.0	100.0

## Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

## Part 11 injury

Table 11.1 In the last 12 months, how often did you use helmet when you rode a motorcycle? (HELMET)

Variable	Frequency	WgtFreq	Never				Rarely				Sometimes				Almost every time				Every time			
			Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl
overall	1,153	2,847,124	110	9.1	7.6	10.7	171	14.1	7.8	20.5	402	32.0	0.0	85.0	173	16.1	4.0	28.1	297	28.7	0.0	77.6
municipal area	606	1,418,103	56	10.7	0.0	30.9	93	14.7	14.1	15.3	185	30.6	0.0	73.5	100	16.6	13.1	20.1	172	27.4	7.6	47.2
out municipal area	547	1,429,021	54	7.6	0.0	30.0	78	13.6	1.8	25.4	217	33.3	0.0	97.0	73	15.6	0.0	36.4	125	30.0	0.0	100.0
male	684	1,523,389	68	10.8	2.0	19.6	112	14.5	2.8	26.3	230	31.5	0.0	70.9	117	18.7	5.3	32.2	157	24.4	0.0	53.3
female	469	1,323,735	42	7.2	0.0	20.4	59	13.7	13.6	13.8	172	32.5	0.0	100.0	56	13.0	2.2	23.8	140	33.6	0.0	100.0
15-24 years	232	749,391	24	12.4	0.0	28.7	37	15.2	8.0	22.3	95	37.0	1.2	72.8	32	13.1	9.5	16.7	44	22.3	0.0	52.6
25-34 years	177	547,985	10	4.4	0.0	23.5	37	18.9	8.9	29.0	60	29.5	0.0	74.6	35	22.2	11.5	32.9	35	25.0	0.0	88.4
35-44 years	190	556,800	18	9.8	6.4	13.2	21	8.0	0.0	37.2	60	28.1	0.0	99.3	34	18.7	7.6	29.8	57	35.3	0.0	100.0
45-54 years	219	515,965	16	6.7	0.0	22.3	31	13.0	0.0	32.3	81	35.3	0.0	94.7	29	12.3	0.0	39.4	62	32.7	0.0	99.9
55-64 years	190	336,468	19	10.1	4.0	16.1	28	17.5	0.0	66.0	59	28.8	0.0	68.5	31	16.3	2.0	30.7	53	27.3	10.2	44.4
65-74 years	130	130,029	20	12.7	2.1	23.2	15	10.6	0.0	44.0	43	25.6	0.0	100.0	11	11.0	0.0	48.4	41	40.1	0.0	88.4
75-79 years	15	10,486	3	30.2	0.0	100.0	2	11.3	0.0	100.0	4	19.3	0.0	82.1	1	6.1	0.0	55.5	5	33.1	0.0	77.5
never attended school	4	6,170	1	40.1	0.0	100.0	2	49.6	0.0	100.0	1	10.4	0.0	78.6	0	0.0	0.0	0.0	0	0.0	0.0	0.0
pratoon 1-6	527	1,048,971	62	11.2	2.2	20.1	76	13.9	12.1	15.7	175	29.9	0.0	86.8	70	14.6	0.0	39.3	144	30.4	0.0	73.4
matayoom 1-6	469	1,331,658	38	8.1	2.8	13.4	69	13.9	5.3	22.5	180	35.0	0.0	83.2	71	15.5	4.2	26.8	111	27.5	0.0	78.3
college/certificate	53	187,664	1	0.9	0.0	4.4	14	19.5	0.0	73.6	17	31.7	0.2	63.3	8	21.6	0.0	73.6	13	26.2	0.0	56.3
university or upper	99	270,584	8	11.3	0.0	53.7	10	12.1	0.0	36.6	28	24.9	0.0	99.4	24	21.4	0.0	87.0	29	30.3	0.0	100.0
no income	53	191,680	9	14.0	0.0	32.4	12	28.3	0.0	94.5	19	32.3	0.0	87.7	7	10.5	4.5	16.5	6	15.0	1.4	28.6
1-4,999 baht	428	882,851	46	14.2	0.0	53.0	65	14.4	14.2	14.7	172	37.2	0.0	95.2	52	13.4	0.0	32.4	93	20.8	20.4	21.1
5,000-9,999 baht	320	844,593	28	7.6	0.0	23.7	48	12.6	0.0	41.0	110	30.6	3.1	58.1	56	18.0	10.7	25.3	78	31.2	0.0	96.0
10,000 baht upper	295	738,330	20	4.5	0.0	16.1	43	14.8	6.9	22.7	84	27.3	0.0	100.0	51	18.9	6.8	30.9	97	34.4	0.0	100.0



## Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

## Part 11 injury

Table 11.2 In the last 12 months, How often did you use helmet when you were a motorcycle passenger? (HELMETPA)

Variable	Frequency	WgtFreq	Never				Rarely				Sometimes				Almost every time				Every time			
			Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl
overall	1,331	3,044,720	290	19.3	0.0	40.6	164	12.6	9.8	15.3	452	33.9	8.6	59.2	152	12.2	0.0	27.3	273	22.2	0.0	56.4
municipal area	662	1,472,243	146	20.8	0.0	45.4	78	13.0	1.2	24.7	194	30.1	5.8	54.5	92	13.5	9.7	17.2	152	22.6	0.0	56.1
out municipal area	669	1,572,477	144	17.8	0.3	35.3	86	12.2	0.0	28.3	258	37.4	9.5	65.2	60	10.9	0.0	37.3	121	21.7	0.0	56.8
male	669	1,482,703	149	22.9	21.6	24.1	83	10.7	0.0	22.4	224	33.2	23.5	42.9	91	14.8	1.4	28.1	122	18.5	9.1	27.8
female	662	1,562,018	141	15.8	0.0	56.5	81	14.3	8.4	20.2	228	34.5	0.0	74.5	61	9.7	0.0	26.3	151	25.7	0.0	83.8
15-24 years	231	760,073	53	22.1	9.9	34.2	30	14.1	10.2	18.0	88	35.7	0.1	71.3	24	10.1	9.1	11.2	36	18.0	0.0	44.4
25-34 years	169	523,093	29	15.5	9.6	21.5	28	13.0	0.0	49.4	58	34.1	27.9	40.3	24	15.3	15.2	15.3	30	22.1	0.0	70.6
35-44 years	175	515,316	33	16.8	0.0	46.1	25	11.3	0.0	29.1	63	36.9	26.7	47.1	20	10.0	3.8	16.2	34	25.0	0.0	76.1
45-54 years	232	548,221	42	17.1	0.0	78.1	25	9.8	3.0	16.6	82	34.6	0.0	77.2	27	12.5	0.0	55.0	56	26.0	0.0	80.2
55-64 years	252	430,020	50	17.9	0.0	68.7	29	16.7	0.0	59.2	79	29.1	5.6	52.5	33	14.2	0.0	39.4	61	22.1	15.6	28.6
65-74 years	208	197,826	59	26.1	0.0	52.4	18	7.4	3.1	11.6	64	26.9	0.0	93.5	20	14.1	0.0	73.0	47	25.5	0.0	55.3
75-79 years	64	70,172	24	40.6	4.9	76.4	9	12.7	0.0	40.4	18	33.9	0.0	95.4	4	5.1	0.0	24.2	9	7.6	0.0	58.0
never attended school	13	13,267	4	32.0	0.0	100.0	1	10.2	0.0	84.8	4	26.3	0.0	100.0	3	23.3	0.0	48.5	1	8.2	0.0	82.4
pratoon 1-6	715	1,295,121	175	21.1	0.0	72.3	83	10.9	9.1	12.6	229	32.0	23.8	40.1	70	11.5	0.0	41.1	158	24.6	0.0	56.1
matayoom 1-6	466	1,312,497	92	18.2	5.3	31.1	64	14.3	13.7	14.9	171	37.3	11.7	62.9	57	10.6	8.5	12.6	82	19.6	0.0	55.5
college/certificate	52	181,760	9	20.9	0.0	90.6	8	12.9	0.0	55.5	17	26.1	0.0	100.0	8	21.8	0.0	44.6	10	18.2	0.0	46.8
university or upper	83	239,223	10	13.7	1.0	26.3	8	12.3	3.9	20.6	29	30.7	0.0	84.4	14	16.5	15.2	17.8	22	26.8	0.0	60.8
no income	55	201,399	18	26.8	1.7	51.9	11	26.6	0.0	65.8	10	17.4	0.0	59.7	7	10.7	6.7	14.7	9	18.5	0.0	42.8
1-4,999 baht	627	1,143,127	158	24.4	20.1	28.7	77	11.0	0.7	21.4	232	37.7	2.4	72.9	50	9.7	0.0	48.3	110	17.2	5.7	28.6
5,000-9,999 baht	313	810,713	64	17.4	0.0	53.8	39	11.8	0.0	25.9	97	33.1	0.9	65.3	50	15.0	6.2	23.8	63	22.6	0.0	49.8
10,000 baht upper	281	703,878	40	13.2	0.0	33.1	29	10.5	4.4	16.6	101	37.3	0.0	95.4	36	13.2	0.0	29.4	75	25.8	0.0	93.7



Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 11 injury

Table 11.3 In the past 12 months, how often did you fasten safety belt when you drove a car? (SEATBELT)

Variable	Frequency	WgtFreq	Never				Rarely				Sometimes				Almost every time				Every time			
			Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl
overall	565	1,396,855	28	3.6	0.0	13.0	37	6.5	0.0	14.3	70	13.6	0.0	37.8	84	16.0	8.6	23.3	346	60.4	42.0	78.9
municipal area	326	717,179	12	3.1	1.6	4.6	21	6.7	0.0	18.8	40	13.4	0.0	56.1	53	18.0	14.5	21.4	200	58.9	23.4	94.4
out municipal area	239	679,676	16	4.1	0.0	22.7	16	6.3	2.7	9.8	30	13.8	8.7	18.8	31	13.9	0.0	36.4	146	62.0	59.6	64.4
male	381	899,020	16	3.5	1.2	5.7	27	8.0	0.0	17.9	43	10.1	0.0	33.7	54	15.0	3.2	26.8	241	63.5	59.4	67.6
female	184	497,836	12	3.8	0.0	26.1	10	3.7	0.0	7.4	27	19.9	0.0	44.8	30	17.7	17.2	18.2	105	54.9	10.9	98.9
15-24 years	81	292,937	4	4.2	0.0	13.8	7	8.0	0.0	17.0	9	8.1	0.0	52.0	13	15.1	4.1	26.1	48	64.5	32.3	96.8
25-34 years	106	347,369	3	2.4	0.0	9.4	6	6.1	0.0	29.3	13	14.4	0.0	34.7	24	25.6	12.0	39.3	60	51.5	1.3	100.0
35-44 years	94	278,500	4	3.0	0.0	9.9	4	4.1	3.1	5.1	15	20.7	0.0	76.6	15	15.1	6.3	23.9	56	57.1	4.1	100.0
45-54 years	112	253,405	3	2.9	0.0	21.0	6	3.3	0.0	16.7	14	14.1	0.0	62.0	8	7.1	0.0	16.9	81	72.6	3.1	100.0
55-64 years	103	161,463	8	4.7	0.0	46.6	5	11.3	0.0	61.8	10	8.5	4.6	12.4	18	15.3	0.0	41.3	62	60.2	38.9	81.4
65-74 years	60	56,613	5	9.1	1.2	16.9	5	6.5	4.2	8.7	9	15.2	4.5	25.9	5	8.6	4.4	12.8	36	60.7	48.5	72.8
75-79 years	9	6,568	1	12.5	0.0	89.9	4	56.4	0.0	100.0	0	0.0	0.0	0.0	1	5.0	0.0	35.8	3	26.1	0.0	100.0
never attended school	4	3,486	1	18.4	18.4	18.4	1	38.8	38.8	38.8	0	0.0	0.0	0.0	1	25.4	25.4	25.4	1	17.4	17.4	17.4
pratoon 1-6	224	397,594	16	5.1	0.0	27.8	20	5.7	0.0	14.2	27	14.3	10.4	18.1	25	12.1	0.0	31.5	136	62.8	55.0	70.7
matayoom 1-6	215	625,314	9	3.7	0.0	10.0	11	6.1	0.0	15.5	31	15.1	0.0	49.3	34	17.5	0.0	39.1	130	57.6	47.9	67.2
college/certificate	37	131,446	2	4.4	4.1	4.7	3	8.2	2.5	13.9	4	8.0	0.0	45.7	4	13.3	9.6	16.9	24	66.1	38.1	94.2
university or upper	85	239,016	0	0.0	0.0	0.0	2	7.2	0.0	44.1	8	11.7	0.0	49.9	20	19.7	0.0	64.5	55	61.3	15.2	100.0
no income	13	42,314	1	6.9	0.0	26.7	0	0.0	0.0	0.0	2	9.0	0.0	100.0	5	52.5	0.0	100.0	5	31.6	0.0	79.3
1-4,999 baht	144	254,649	13	8.0	5.7	10.2	10	5.4	0.0	13.6	17	11.0	0.0	26.7	14	10.4	0.0	33.6	90	65.2	51.7	78.7
5,000-9,999 baht	158	450,432	9	3.4	0.0	19.4	14	5.5	0.0	30.2	26	19.9	6.1	33.7	33	21.6	12.3	30.8	76	49.7	32.0	67.3
10,000 baht upper	219	543,164	5	2.1	0.0	12.6	10	8.6	0.0	50.8	23	10.4	0.0	69.1	29	12.8	0.0	30.8	152	66.0	21.0	100.0





Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 11 injury

Table11.4 How often did you fasten safety belt when you sat beside a driver in a car?(SEATBEPA)

Variable	Frequency	WgtFreq	Never				Rarely				Sometimes				Almost every time				Every time			
			Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl
overall	1,266	2,877,086	87	6.9	5.6	8.1	92	6.7	3.1	10.3	237	19.0	1.5	36.6	138	11.2	5.5	16.9	712	56.2	46.7	65.7
municipal area	638	1,377,892	46	7.6	4.7	10.5	36	5.6	3.6	7.5	111	18.5	0.0	49.6	80	12.5	8.8	16.2	365	55.8	20.1	91.6
out municipal area	628	1,499,194	41	6.2	5.3	7.0	56	7.8	3.6	12.0	126	19.6	14.1	25.0	58	10.0	0.0	25.3	347	56.5	41.6	71.5
male	668	1,418,303	47	7.5	3.9	11.1	49	7.2	3.5	10.9	127	18.1	0.0	51.8	77	12.0	3.2	20.8	368	55.2	30.3	80.1
female	598	1,458,783	40	6.3	5.1	7.4	43	6.2	2.6	9.9	110	19.9	17.9	22.0	61	10.4	7.5	13.3	344	57.2	51.4	62.9
15-24 years	202	648,090	19	9.9	8.5	11.3	17	6.6	0.0	25.6	48	20.5	0.0	62.5	21	10.6	8.3	12.9	97	52.4	0.0	100.0
25-34 years	165	523,020	12	6.0	0.0	14.7	9	6.8	0.0	42.3	32	20.9	13.7	28.1	28	16.5	10.7	22.3	84	49.8	21.7	78.0
35-44 years	174	517,180	6	3.7	0.0	10.2	12	5.8	0.0	32.2	30	18.5	0.0	43.1	18	10.6	0.5	20.7	108	61.4	27.1	95.8
45-54 years	217	515,211	15	6.3	5.9	6.6	11	5.1	0.0	11.3	35	17.2	9.3	25.1	18	8.1	0.0	25.0	138	63.4	48.5	78.3
55-64 years	256	432,619	12	7.2	1.4	13.0	20	9.3	0.0	37.6	37	14.6	0.4	28.8	31	11.6	8.2	14.9	156	57.3	45.7	68.9
65-74 years	200	193,348	17	7.7	0.0	27.5	19	8.1	0.0	17.6	37	17.9	0.0	68.6	18	9.4	0.0	30.3	109	56.9	56.4	57.3
75-79 years	52	47,618	6	10.1	0.0	70.0	4	6.0	0.0	15.7	18	49.8	0.0	100.0	4	3.6	0.0	43.2	20	30.6	0.0	92.5
never attended school	12	12,003	3	32.3	0.0	100.0	1	9.8	0.0	96.7	2	20.6	0.0	100.0	2	11.7	0.0	99.7	4	25.6	0.0	87.2
pratoon 1-6	669	1,213,665	45	6.8	4.3	9.3	55	6.6	3.0	10.1	121	17.8	13.3	22.3	66	9.9	0.0	27.6	382	59.0	46.8	71.1
matayoom 1-6	433	1,202,680	31	7.2	0.0	15.0	23	5.2	0.0	11.6	97	22.5	0.0	55.3	44	11.0	0.7	21.2	238	54.1	30.1	78.1
college/certificate	54	183,500	4	8.8	0.0	34.8	7	13.8	7.1	20.5	7	15.4	0.0	35.4	6	10.9	0.0	28.9	30	51.1	29.7	72.6
university or upper	96	262,385	4	3.1	0.0	7.5	6	9.4	0.0	33.2	9	10.8	0.0	44.5	20	18.6	0.0	63.6	57	58.1	7.6	100.0
no income	52	180,749	9	26.5	0.0	81.7	7	8.5	0.0	29.5	9	11.8	0.0	58.3	10	21.5	0.0	44.6	17	31.7	21.0	42.4
1-4,999 baht	550	968,607	45	7.2	0.0	18.0	45	8.1	0.0	18.5	119	22.5	19.8	25.3	46	8.8	0.0	25.8	295	53.3	39.5	67.2
5,000-9,999 baht	307	813,604	16	5.0	4.7	5.3	22	5.9	5.3	6.5	63	20.0	8.0	31.9	40	11.9	0.0	24.1	166	57.2	34.0	80.4
10,000 baht upper	304	743,621	17	5.2	0.0	15.1	15	6.4	0.0	14.5	40	16.8	0.0	46.3	38	12.4	11.5	13.2	194	59.2	28.7	89.7



## Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

## Part 12 Muscle and skeleton pain due to occupational work

Table 12.1 In the past 30 days, do you have muscle pain or skeleton pain due to your occupations? (MUSSKELE)

Variable	Frequency	WgtFreq	Yes				No			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,030	2,348,593	602	54.8	24.8	84.9	428	45.2	15.1	75.2
municipal area	524	1,137,045	302	54.0	25.9	82.1	222	46.0	17.9	74.1
out municipal area	506	1,211,548	300	55.7	23.0	88.3	206	44.3	11.7	77.0
male	565	1,190,768	323	54.2	30.2	78.2	242	45.8	21.8	69.8
female	465	1,157,824	279	55.5	19.1	91.9	186	44.5	8.1	80.9
15-24 years	73	248,152	29	44.2	33.2	55.2	44	55.8	44.8	66.8
25-34 years	149	456,555	82	46.2	0.0	100.0	67	53.8	0.0	100.0
35-44 years	191	553,464	115	54.3	53.5	55.0	76	45.7	45.0	46.5
45-54 years	234	555,938	140	57.5	1.7	100.0	94	42.5	0.0	98.3
55-64 years	222	380,239	138	67.6	31.7	100.0	84	32.4	0.0	68.3
65-74 years	133	129,113	80	56.8	33.3	80.3	53	43.2	19.7	66.7
75-79 years	28	25,132	18	67.2	26.7	100.0	10	32.8	0.0	73.3
never attended school	7	7,194	6	87.7	0.8	100.0	1	12.3	0.0	99.2
pratoon 1-6	577	1,089,143	352	60.3	52.9	67.7	225	39.7	32.3	47.1
matayoom 1-6	319	877,945	184	52.2	0.0	100.0	135	47.8	0.0	100.0
college/certificate	42	140,938	23	52.9	50.5	55.4	19	47.1	44.6	49.5
university or upper	85	233,373	37	39.5	0.0	95.4	48	60.5	4.6	100.0
no income	7	34,540	4	82.2	23.2	100.0	3	17.8	0.0	76.8
1-4,999 baht	395	686,981	241	60.9	53.2	68.7	154	39.1	31.3	46.8
5,000-9,999 baht	296	758,588	185	58.7	37.2	80.2	111	41.3	19.8	62.8
10,000 baht upper	296	744,294	155	47.1	0.0	100.0	141	52.9	0.0	100.0

Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 13 Women (female aged 35 -79 years)

Table 13.1 When were the last time, you received a cervix cancer screening? (LASTPAP)

Variable	Frequency	WgtFreq	Within 1 year				Over 2 to 3 years ago				More than 3 years				Never			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	221	290,454	83	42.9	37.6	48.2	23	11.6	8.2	15.1	47	21.0	19.8	22.2	68	24.5	16.9	32.0
municipal area	102	141,227	47	51.2	51.2	51.2	8	9.8	9.8	9.8	15	13.7	13.7	13.7	32	25.4	25.4	25.4
out municipal area	119	149,227	36	35.1	29.3	40.9	15	13.4	5.7	21.1	32	27.9	26.2	29.5	36	23.6	8.5	38.8
female	221	290,454	83	42.9	37.6	48.2	23	11.6	8.2	15.1	47	21.0	19.8	22.2	68	24.5	16.9	32.0
35-44 years	35	67,597	15	36.2	13.3	59.1	3	10.6	3.9	17.3	13	36.8	28.5	45.2	4	16.4	0.0	37.7
45-54 years	54	104,874	28	52.1	51.2	52.9	10	18.3	10.8	25.8	6	10.7	6.3	15.1	10	18.9	6.2	31.6
55-64 years	59	67,112	31	57.8	57.8	57.8	5	4.6	4.6	4.6	14	24.0	24.0	24.0	9	13.6	13.6	13.6
65-74 years	53	35,450	5	9.5	9.5	9.5	4	9.8	9.8	9.8	12	20.1	20.1	20.1	32	60.7	60.7	60.7
75-79 years	20	15,422	4	22.2	22.2	22.2	1	5.7	5.7	5.7	2	10.1	10.1	10.1	13	62.0	62.0	62.0
never attended school	7	7,633	1	22.3	22.3	22.3	2	25.7	25.7	25.7	0	0.0	0.0	0.0	4	52.0	52.0	52.0
pratoon 1-6	160	189,414	52	41.9	34.3	49.6	18	12.2	6.7	17.7	34	19.8	17.5	22.2	56	26.0	15.2	36.9
matayoom 1-6	41	71,098	22	45.9	45.9	45.9	2	9.9	9.9	9.9	10	27.3	27.3	27.3	7	16.8	16.8	16.8
college/certificate	2	2,119	1	58.3	58.3	58.3	0	0.0	0.0	0.0	1	41.7	41.7	41.7	0	0.0	0.0	0.0
university or upper	11	20,191	7	47.7	47.7	47.7	1	8.4	8.4	8.4	2	15.0	15.0	15.0	1	28.8	28.8	28.8
no income	2	3,023	0	0.0	0.0	0.0	0	0.0	0.0	0.0	2	100.0	100.0	100.0	0	0.0	0.0	0.0
1-4,999 baht	134	142,974	40	37.4	31.8	43.0	14	13.0	11.0	14.9	23	15.4	13.1	17.7	57	34.2	24.4	44.1
5,000-9,999 baht	39	52,832	24	64.3	38.2	90.3	4	8.9	5.3	12.5	5	13.8	8.2	19.4	6	13.0	0.0	48.3
10,000 baht upper	39	80,978	18	44.3	44.3	44.3	5	13.0	13.0	13.0	13	29.1	29.1	29.1	3	13.6	13.6	13.6

Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 13 Women (female aged 35 -79 years)

Table 13.2 When were the last time, you received a cervix cancer screening? (LASTPAP\_3y)

Variable	Frequency	WgtFreq	Within 3 years				Over 4 to 5 years				Never			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	221	290,454	123	63.1	51.9	74.3	30	12.4	8.7	16.1	68	24.5	16.9	32.0
municipal area	102	141,227	62	65.6	65.6	65.6	8	9.0	9.0	9.0	32	25.4	25.4	25.4
out municipal area	119	149,227	61	60.7	40.2	81.3	22	15.6	10.3	21.0	36	23.6	8.5	38.8
female	221	290,454	123	63.1	51.9	74.3	30	12.4	8.7	16.1	68	24.5	16.9	32.0
35-44 years	35	67,597	23	61.1	22.4	99.9	8	22.5	5.1	39.9	4	16.4	0.0	37.7
45-54 years	54	104,874	40	75.3	65.0	85.7	4	5.8	3.4	8.1	10	18.9	6.2	31.6
55-64 years	59	67,112	45	76.2	76.2	76.2	5	10.2	10.2	10.2	9	13.6	13.6	13.6
65-74 years	53	35,450	10	21.3	21.3	21.3	11	18.1	18.1	18.1	32	60.7	60.7	60.7
75-79 years	20	15,422	5	27.9	27.9	27.9	2	10.1	10.1	10.1	13	62.0	62.0	62.0
never attended school	7	7,633	3	48.0	48.0	48.0	0	0.0	0.0	0.0	4	52.0	52.0	52.0
pratoon 1-6	160	189,414	80	60.6	44.5	76.7	24	13.4	8.1	18.6	56	26.0	15.2	36.9
matayoom 1-6	41	71,098	30	71.9	71.9	71.9	4	11.3	11.3	11.3	7	16.8	16.8	16.8
college/certificate	2	2,119	1	58.3	58.3	58.3	1	41.7	41.7	41.7	0	0.0	0.0	0.0
university or upper	11	20,191	9	62.3	62.3	62.3	1	8.9	8.9	8.9	1	28.8	28.8	28.8
no income	2	3,023	1	50.0	50.0	50.0	1	50.0	50.0	50.0	0	0.0	0.0	0.0
1-4,999 baht	134	142,974	59	54.2	46.1	62.3	18	11.6	9.9	13.3	57	34.2	24.4	44.1
5,000-9,999 baht	39	52,832	31	81.5	48.4	100.0	2	5.5	3.3	7.8	6	13.0	0.0	48.3
10,000 baht upper	39	80,978	30	73.2	73.2	73.2	6	13.2	13.2	13.2	3	13.6	13.6	13.6

Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 13 Women (female aged 35 -79 years)

Table 13.3 When were the last time, you received a breast examined by a doctor, a nurse, or public health personnel? (LSTBREEX)

Variable	Frequency	WgtFreq	Within 1 year				Over 1 to 2 years				More than 2 years				Never			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	241	305,910	45	21.2	20.2	22.3	19	7.7	5.5	9.8	39	13.7	9.9	17.6	138	57.3	52.4	62.3
municipal area	115	153,381	34	32.4	32.4	32.4	13	9.5	9.5	9.5	16	13.0	13.0	13.0	52	45.1	45.1	45.1
out municipal area	126	152,528	11	10.0	1.6	18.4	6	5.9	2.6	9.2	23	14.5	6.4	22.6	86	69.6	66.6	72.6
female	241	305,910	45	21.2	20.2	22.3	19	7.7	5.5	9.8	39	13.7	9.9	17.6	138	57.3	52.4	62.3
35-44 years	35	68,093	5	12.8	4.7	20.8	5	14.0	5.2	22.8	4	10.6	3.9	17.3	21	62.6	39.1	86.1
45-54 years	54	102,620	12	24.2	13.5	35.0	3	4.1	2.4	5.8	7	10.5	6.1	14.9	32	61.2	56.5	65.8
55-64 years	68	76,436	21	33.6	33.6	33.6	7	9.7	9.7	9.7	9	14.9	14.9	14.9	31	41.8	41.8	41.8
65-74 years	63	42,819	6	12.2	12.2	12.2	3	4.1	4.1	4.1	14	19.8	19.8	19.8	40	63.9	63.9	63.9
75-79 years	21	15,941	1	3.3	3.3	3.3	1	4.1	4.1	4.1	5	26.1	26.1	26.1	14	66.6	66.6	66.6
never attended school	8	8,241	0	0.0	0.0	0.0	0	0.0	0.0	0.0	3	24.4	24.4	24.4	5	75.6	75.6	75.6
pratoon 1-6	175	201,832	29	20.8	19.0	22.6	10	5.1	2.9	7.2	27	13.2	7.6	18.8	109	61.0	55.0	66.9
matayoom 1-6	43	70,527	11	22.7	22.7	22.7	6	14.0	14.0	14.0	7	14.9	14.9	14.9	19	48.4	48.4	48.4
college/certificate	2	2,119	0	0.0	0.0	0.0	1	41.7	41.7	41.7	0	0.0	0.0	0.0	1	58.3	58.3	58.3
university or upper	13	23,191	5	30.4	30.4	30.4	2	11.2	11.2	11.2	2	12.7	12.7	12.7	4	45.8	45.8	45.8
no income	2	3,023	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	2	100.0	100.0	100.0
1-4,999 baht	148	152,487	15	10.8	9.3	12.3	8	5.8	5.0	6.7	29	17.5	15.0	19.9	96	65.9	61.1	70.7
5,000-9,999 baht	44	60,887	16	33.7	21.9	45.6	3	6.2	4.0	8.4	4	9.8	6.3	13.2	21	50.3	32.8	67.8
10,000 baht upper	40	78,865	13	33.8	33.8	33.8	8	13.8	13.8	13.8	4	6.5	6.5	6.5	15	45.9	45.9	45.9

Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 13 Women (female aged 15 -49 years)

Table 13.4 How long the lastime did you use family planing or contraception such as IUD, injectable contraception,pill contraception, sterilization? (LASTFP)

Variable	Frequency	WgtFreq	Within 1 year ago				Within 2 year ago				More than 2 years				Never			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	172	353,138	44	25.2	23.6	26.7	6	3.5	1.1	5.9	48	27.2	14.6	39.8	74	44.1	30.7	57.5
municipal area	85	181,345	18	18.8	18.8	18.8	4	4.6	4.6	4.6	21	26.8	26.8	26.8	42	49.7	49.7	49.7
out municipal area	87	171,792	26	31.9	25.6	38.1	2	2.3	0.0	5.5	27	27.6	1.2	54.0	32	38.2	2.3	74.1
15-24 years	57	115,189	12	19.4	8.2	30.5	2	2.9	1.2	4.6	0	0.0	0.0	0.0	43	77.7	64.9	90.6
25-34 years	47	100,360	18	40.7	28.4	53.0	1	2.1	0.0	4.8	11	22.0	0.0	51.1	17	35.2	15.7	54.8
35-44 years	36	69,846	11	30.7	21.3	40.2	3	9.9	6.9	13.0	15	35.8	16.1	55.5	7	23.5	16.3	30.7
45-49 years	32	67,743	3	6.3	4.3	8.3	0	0.0	0.0	0.0	22	72.3	49.5	95.2	7	21.4	0.0	46.2
never attended school	1	1,353	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	100.0	100.0	100.0	0	0.0	0.0	0.0
pratoon 1-6	42	88,856	12	27.1	14.0	40.2	2	5.0	2.6	7.4	16	41.3	37.0	45.5	12	26.6	15.4	37.9
matayoom 1-6	98	197,926	23	24.8	16.2	33.4	3	2.9	0.0	5.9	25	22.9	0.0	46.0	47	49.3	31.9	66.8
college/certificate	9	18,832	3	30.4	30.4	30.4	1	11.0	11.0	11.0	1	13.4	13.4	13.4	4	45.3	45.3	45.3
university or upper	21	44,094	6	22.7	22.7	22.7	0	0.0	0.0	0.0	5	23.1	23.1	23.1	10	54.2	54.2	54.2
no income	8	18,123	2	24.0	24.0	24.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	6	76.0	76.0	76.0
1-4,999 baht	63	121,648	18	28.4	7.9	48.8	2	3.7	1.0	6.4	13	20.7	5.7	35.6	30	47.3	9.2	85.3
5,000-9,999 baht	37	67,273	8	21.7	21.7	21.7	2	4.8	4.8	4.8	15	39.6	39.6	39.6	12	34.0	34.0	34.0
10,000 baht upper	52	118,965	15	28.5	0.0	68.4	2	3.8	1.7	6.0	17	32.8	14.5	51.1	18	34.8	15.4	54.3



Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 2 Accessibility to health services

Table 2.1 Do you have universal coverage for health insurance? (HLTINHS)

Variable	Frequency	WgtFreq	Yes				No			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,464	3,212,717	1,278	86.5	77.9	95.2	186	13.5	4.8	22.1
municipal area	749	1,560,533	634	84.3	61.6	100.0	115	15.7	0.0	38.4
out municipal area	715	1,652,184	644	88.6	82.6	94.7	71	11.4	5.3	17.4
male	739	1,518,670	653	86.7	81.7	91.7	86	13.3	8.3	18.3
female	725	1,694,047	625	86.4	74.4	98.3	100	13.6	1.7	25.6
15-39 years	462	1,474,849	392	84.9	77.6	92.2	70	15.1	7.8	22.4
40-59 years	495	1,225,036	436	88.1	79.1	97.0	59	11.9	3.0	20.9
60-79 years	507	512,833	450	87.5	77.6	97.3	57	12.5	2.7	22.4
never attended school	19	19,726	18	96.9	69.1	100.0	1	3.1	0.0	30.9
pratoon 1-6	818	1,443,441	760	93.1	87.4	98.8	58	6.9	1.2	12.6
matayoom 1-6	470	1,291,792	414	88.7	88.3	89.1	56	11.3	10.9	11.7
college/certificate	54	188,302	38	69.9	64.9	74.8	16	30.1	25.2	35.1
university or upper	101	266,603	47	51.7	0.0	100.0	54	48.3	0.0	100.0
no income	54	188,371	49	93.9	84.2	100.0	5	6.1	0.0	15.8
1-4,999 baht	681	1,160,249	644	96.4	85.3	100.0	37	3.6	0.0	14.7
5,000-9,999 baht	337	863,944	312	90.8	87.1	94.5	25	9.2	5.5	12.9
10,000 baht upper	328	798,309	215	65.8	45.6	86.0	113	34.2	14.0	54.4

## Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

## Part 2 Accessibility to health services

Table 2.2 Do you have social security for health insurance? (HLTHINSS)

Variable	Frequency	WgtFreq	Yes				No			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,461	3,205,439	87	8.5	6.5	10.6	1,374	91.5	89.4	93.5
municipal area	748	1,555,959	56	10.8	8.7	13.0	692	89.2	87.0	91.3
out municipal area	713	1,649,481	31	6.3	2.8	9.8	682	93.7	90.2	97.2
male	738	1,518,253	46	9.4	8.9	9.9	692	90.6	90.1	91.1
female	723	1,687,186	41	7.7	3.1	12.3	682	92.3	87.7	96.9
15-39 years	462	1,474,849	50	12.2	6.2	18.1	412	87.8	81.9	93.8
40-59 years	495	1,220,342	33	7.3	7.2	7.5	462	92.7	92.5	92.8
60-79 years	504	510,248	4	0.7	0.0	1.6	500	99.3	98.4	100.0
never attended school	19	19,726	1	3.0	0.0	25.3	18	97.0	74.7	100.0
pratoon 1-6	816	1,442,947	13	2.1	0.3	4.0	803	97.9	96.0	99.7
matayoom 1-6	469	1,285,008	41	9.7	5.0	14.4	428	90.3	85.6	95.0
college/certificate	54	188,302	13	27.3	0.0	65.0	41	72.7	35.0	100.0
university or upper	101	266,603	19	24.6	1.1	48.0	82	75.4	52.0	98.9
no income	54	188,371	6	9.9	0.0	25.6	48	90.1	74.4	100.0
1-4,999 baht	678	1,150,761	4	0.9	0.0	5.9	674	99.1	94.1	100.0
5,000-9,999 baht	337	866,154	21	8.2	5.6	10.8	316	91.8	89.2	94.4
10,000 baht upper	328	798,309	52	19.1	11.9	26.3	276	80.9	73.7	88.1

Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 2 Accessibility to health services

Table 2.3 Do you have private insurance for health insurance? (HLTHINPRI)

Variable	Frequency	WgtFreq	Yes				No			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,461	3,203,916	37	2.7	0.0	6.7	1,424	97.3	93.3	100.0
municipal area	749	1,555,320	24	3.3	0.0	8.8	725	96.7	91.2	100.0
out municipal area	712	1,648,596	13	2.0	0.0	5.1	699	98.0	94.9	100.0
male	738	1,516,730	21	2.9	2.6	3.2	717	97.1	96.8	97.4
female	723	1,687,186	16	2.5	0.0	9.8	707	97.5	90.2	100.0
15-39 years	462	1,474,849	8	2.0	0.0	8.0	454	98.0	92.0	100.0
40-59 years	494	1,218,150	15	3.3	0.0	9.3	479	96.7	90.7	100.0
60-79 years	505	510,917	14	3.0	0.0	10.1	491	97.0	89.9	100.0
never attended school	19	19,726	1	3.0	0.0	25.3	18	97.0	74.7	100.0
pratoon 1-6	817	1,443,616	17	2.1	1.7	2.5	800	97.9	97.5	98.3
matayoom 1-6	468	1,282,816	11	2.2	0.6	3.9	457	97.8	96.1	99.4
college/certificate	54	188,302	3	7.2	0.0	37.2	51	92.8	62.8	100.0
university or upper	101	266,603	5	4.5	0.0	21.9	96	95.5	78.1	100.0
no income	54	188,371	1	0.3	0.0	1.4	53	99.7	98.6	100.0
1-4,999 baht	676	1,147,685	12	2.2	0.0	7.7	664	97.8	92.3	100.0
5,000-9,999 baht	339	867,707	6	1.7	0.0	4.3	333	98.3	95.7	100.0
10,000 baht upper	328	798,309	17	5.4	0.0	17.0	311	94.6	83.0	100.0

## Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

## Part 2 Accessibility to health services

Table 2.4 Do you have government welfare for health insurance? (HLTHINCIV)

Variable	Frequency	WgtFreq	Yes				No			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,461	3,204,024	111	5.8	0.0	14.9	1,350	94.2	85.1	100.0
municipal area	748	1,554,543	71	6.8	0.0	32.6	677	93.2	67.4	100.0
out municipal area	713	1,649,481	40	4.8	0.0	12.0	673	95.2	88.0	100.0
male	738	1,516,837	55	5.0	0.0	12.7	683	95.0	87.3	100.0
female	723	1,687,186	56	6.4	0.0	17.2	667	93.6	82.8	100.0
15-39 years	462	1,474,849	19	2.8	0.0	15.3	443	97.2	84.7	100.0
40-59 years	494	1,218,150	36	6.9	0.8	12.9	458	93.1	87.1	99.2
60-79 years	505	511,024	56	11.9	1.1	22.6	449	88.1	77.4	98.9
never attended school	19	19,726	2	6.1	0.6	11.6	17	93.9	88.4	99.4
pratoon 1-6	817	1,443,723	48	5.0	4.1	5.9	769	95.0	94.1	95.9
matayoom 1-6	468	1,282,816	20	2.7	1.5	3.9	448	97.3	96.1	98.5
college/certificate	54	188,302	3	2.8	0.0	14.7	51	97.2	85.3	100.0
university or upper	101	266,603	38	26.8	0.0	100.0	63	73.2	0.0	100.0
no income	54	188,371	4	3.2	0.0	14.1	50	96.8	85.9	100.0
1-4,999 baht	677	1,148,569	33	3.0	0.0	10.5	644	97.0	89.5	100.0
5,000-9,999 baht	338	866,931	9	1.8	0.2	3.4	329	98.2	96.6	99.8
10,000 baht upper	328	798,309	63	15.7	0.0	41.2	265	84.3	58.8	100.0

Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 2 Accessibility to health services

Table 2.5 During the past 12 month, if you need to meet doctor to cure your illness but you did not come due to health expenditure problem or not? (MONEPROB)

Variable	Frequency	WgtFreq	Yes				No			
			Frequency	Percent	LowerCL	UpperCL	Frequency	Percent	LowerCL	UpperCL
overall	1,531	3,401,703	137	7.3	0.0	17.3	1,394	92.7	82.7	100.0
municipal area	779	1,654,977	71	6.7	0.0	27.8	708	93.3	72.2	100.0
out municipal area	752	1,746,726	66	7.9	7.7	8.2	686	92.1	91.8	92.3
male	784	1,669,049	49	4.8	0.0	22.9	735	95.2	77.1	100.0
female	747	1,732,654	88	9.8	7.4	12.2	659	90.2	87.8	92.6
15-39 years	501	1,618,211	33	6.8	0.5	13.1	468	93.2	86.9	99.5
40-59 years	514	1,260,784	40	7.1	2.8	11.4	474	92.9	88.6	97.2
60-79 years	516	522,708	64	9.6	0.0	44.5	452	90.4	55.5	100.0
never attended school	21	21,874	4	22.8	0.0	88.1	17	77.2	11.9	100.0
pratoon 1-6	849	1,492,477	86	6.6	0.0	26.8	763	93.4	73.2	100.0
matayoom 1-6	504	1,422,628	35	8.2	3.3	13.1	469	91.8	86.9	96.7
college/certificate	55	188,918	4	5.7	0.0	27.7	51	94.3	72.3	100.0
university or upper	100	272,953	8	6.5	0.0	31.9	92	93.5	68.1	100.0
no income	61	211,576	2	5.6	0.0	23.6	59	94.4	76.4	100.0
1-4,999 baht	721	1,277,209	72	6.4	0.0	31.0	649	93.6	69.0	100.0
5,000-9,999 baht	348	893,002	35	9.0	0.0	19.9	313	91.0	80.1	100.0
10,000 baht upper	332	810,177	22	6.9	3.2	10.7	310	93.1	89.3	96.8

Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 2 Accessibility to health services

Table 2.6 How long has it been since you last visited a doctor for routine checkup? (CHECKUP)

Variable	Frequency	WgtFreq	Within 1 year ago				Over 1 to 2 years ago				More than 2 years ago				Never			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,522	3,361,794	666	41.9	35.8	48.0	143	8.5	1.2	15.7	146	11.3	5.0	17.5	567	38.4	31.0	45.8
municipal area	773	1,637,426	341	37.9	29.3	46.5	68	8.5	1.0	16.0	78	12.4	9.8	14.9	286	41.2	22.6	59.9
out municipal area	749	1,724,367	325	45.7	27.3	64.1	75	8.4	1.4	15.4	68	10.2	0.9	19.5	281	35.7	33.7	37.8
male	778	1,634,872	300	36.8	22.6	51.1	88	10.1	9.1	11.2	84	10.7	0.0	42.4	306	42.3	23.9	60.8
female	744	1,726,922	366	46.6	44.3	49.0	55	6.9	0.0	19.8	62	11.8	0.0	29.5	261	34.7	32.2	37.2
15-39 years	493	1,591,750	155	32.9	6.0	59.9	42	8.0	3.5	12.5	64	13.6	0.0	31.8	232	45.5	41.3	49.8
40-59 years	509	1,243,026	262	50.9	34.4	67.4	41	8.3	1.9	14.7	45	9.6	3.0	16.2	161	31.2	15.0	47.4
60-79 years	520	527,018	249	47.7	45.9	49.6	60	10.2	0.0	27.8	37	8.2	7.4	9.1	174	33.9	13.5	54.2
never attended school	21	21,874	9	42.7	0.0	100.0	1	4.0	0.0	40.7	1	2.7	0.0	22.7	10	50.6	0.0	100.0
pratoon 1-6	849	1,490,419	391	44.1	36.9	51.4	82	8.9	6.4	11.4	71	11.2	3.4	18.9	305	35.8	33.8	37.8
matayoom 1-6	496	1,391,463	198	40.5	8.6	72.5	44	8.0	4.7	11.2	51	10.3	0.0	27.8	203	41.2	29.9	52.4
college/certificate	53	184,449	21	34.8	29.0	40.6	5	8.0	0.0	43.7	8	17.0	0.0	48.2	19	40.1	0.0	100.0
university or upper	101	270,736	46	41.3	3.1	79.6	11	9.4	0.0	43.7	15	13.2	0.0	31.6	29	36.1	0.0	100.0
no income	59	203,459	14	22.7	4.5	40.9	7	9.7	0.0	43.1	9	20.1	7.9	32.4	29	47.5	44.6	50.4
1-4,999 baht	717	1,264,801	306	37.4	34.3	40.4	66	9.0	5.6	12.5	46	8.1	5.6	10.7	299	45.5	41.5	49.4
5,000-9,999 baht	347	877,430	156	46.9	37.9	55.9	34	8.6	0.0	17.5	34	11.5	0.0	23.9	123	32.9	27.5	38.4
10,000 baht upper	330	800,549	169	51.0	20.3	81.7	30	8.0	0.0	30.7	47	13.5	0.0	35.7	84	27.5	13.3	41.7

Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 2 Accessibility to health services

Table 2.7 How long has it been since you last visit a dentist or dental health technician for an oral health examination? (LASTDENT)

Variable	Frequency	WgtFreq	Within 1 year				Over 1 to 2 years				More than 2 years				Never			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,513	3,356,978	291	19.5	17.0	22.1	150	8.6	1.7	15.4	366	24.8	7.0	42.6	706	47.1	19.9	74.4
municipal area	767	1,627,002	155	20.4	14.9	25.9	76	7.4	0.0	21.0	186	26.2	19.5	33.0	350	45.9	20.1	71.7
out municipal area	746	1,729,976	136	18.7	18.1	19.2	74	9.6	8.7	10.6	180	23.4	0.0	51.2	356	48.3	20.1	76.5
male	779	1,650,252	127	16.4	7.1	25.8	64	8.1	4.5	11.8	183	21.6	0.0	49.3	405	53.8	31.9	75.8
female	734	1,706,726	164	22.5	8.1	36.9	86	9.0	0.0	19.1	183	27.8	19.1	36.5	301	40.7	7.4	73.9
15-39 years	495	1,604,646	102	20.3	7.6	33.1	45	8.5	7.7	9.4	124	26.7	19.1	34.4	224	44.4	24.8	64.0
40-59 years	502	1,227,609	91	18.9	3.2	34.6	51	8.7	2.0	15.3	113	23.2	0.0	59.6	247	49.3	21.9	76.7
60-79 years	516	524,723	98	18.6	4.7	32.5	54	8.4	0.0	39.4	129	22.5	17.2	27.9	235	50.5	0.3	100.0
never attended school	21	21,874	6	31.8	0.0	100.0	3	20.4	0.0	68.0	6	25.7	0.0	100.0	6	22.1	3.7	40.5
pratoon 1-6	838	1,480,027	143	15.6	6.8	24.4	81	7.9	0.0	22.2	173	20.8	18.4	23.3	441	55.7	35.1	76.3
matayoom 1-6	497	1,400,518	102	20.8	9.7	31.9	49	9.1	2.5	15.8	142	29.0	11.4	46.6	204	41.1	19.0	63.2
college/certificate	53	176,981	14	26.1	21.1	31.2	9	13.2	0.0	54.4	8	18.7	0.0	53.3	22	41.9	40.4	43.5
university or upper	102	274,725	25	29.1	0.0	99.2	8	5.5	0.0	26.0	37	28.4	0.0	100.0	32	36.9	0.0	100.0
no income	61	211,576	15	22.2	20.0	24.3	7	10.9	0.0	27.3	17	30.7	29.5	32.0	22	36.2	19.0	53.5
1-4,999 baht	712	1,269,689	114	14.1	0.0	33.5	71	8.0	3.0	13.1	173	25.2	7.3	43.1	354	52.7	10.3	95.1
5,000-9,999 baht	345	876,899	66	20.9	14.3	27.4	36	10.2	9.5	10.9	78	23.7	15.1	32.4	165	45.2	30.8	59.7
10,000 baht upper	328	786,860	84	27.9	4.9	50.8	32	8.1	0.0	16.5	80	23.1	0.0	77.3	132	41.0	1.2	80.7

Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 3 Weight and height

Table 3.1 How much is your BMI?

Variable	Frequency	WgtFreq	BMI < 18kg/m <sup>2</sup>				18 kg/m <sup>2</sup> <= BMI < 25.0 kg/m <sup>2</sup>				25 <= BMI < 30.0 Kg/m <sup>2</sup>				BMI >= 30 kg/m <sup>2</sup>			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,527	3,372,438	143	10.6	5.0	16.2	876	57.7	49.2	66.2	387	22.8	17.4	28.3	121	8.9	0.6	17.2
municipal area	780	1,659,377	64	10.9	0.0	30.8	452	59.4	58.8	60.0	196	21.6	7.5	35.7	68	8.1	2.8	13.4
out municipal area	747	1,713,061	79	10.3	2.2	18.4	424	56.0	40.7	71.4	191	24.0	21.7	26.4	53	9.6	0.0	30.7
male	783	1,647,958	85	12.9	3.8	22.1	477	59.4	32.3	86.6	173	20.0	12.9	27.0	48	7.7	0.0	18.6
female	744	1,724,479	58	8.4	5.7	11.0	399	56.0	46.5	65.6	214	25.6	7.7	43.4	73	10.0	4.4	15.6
15-24 years	235	757,160	49	21.2	20.0	22.4	139	57.4	49.0	65.9	28	10.6	0.0	46.2	19	10.8	0.0	39.2
25-34 years	178	544,825	14	9.1	0.0	30.1	118	63.6	8.6	100.0	30	18.5	0.0	44.7	16	8.9	1.2	16.6
35-44 years	203	590,295	12	8.1	0.0	16.9	117	60.7	34.5	86.9	56	23.3	0.0	49.4	18	8.0	0.0	16.9
45-54 years	259	625,284	14	5.2	0.3	10.1	139	52.3	30.2	74.5	88	33.4	33.3	33.5	18	9.1	0.0	26.4
55-64 years	301	496,267	18	5.8	4.2	7.4	158	53.0	34.3	71.6	98	33.3	7.9	58.7	27	7.9	2.7	13.1
65-74 years	265	260,020	21	6.5	0.0	21.0	152	58.3	51.6	65.0	72	26.0	21.4	30.6	20	9.2	6.0	12.5
75-79 years	86	98,585	15	21.0	0.0	51.4	53	65.8	63.2	68.5	15	10.9	0.0	33.1	3	2.3	0.0	7.8
never attended school	20	20,992	2	9.3	0.0	50.6	12	67.3	43.7	90.9	3	11.5	0.0	29.0	3	11.9	0.0	94.2
pratoon 1-6	849	1,486,277	71	7.6	7.5	7.7	468	54.0	34.7	73.3	249	30.5	19.4	41.6	61	7.8	0.0	15.9
matayoom 1-6	499	1,399,660	59	14.3	0.0	28.8	292	59.0	55.3	62.6	107	17.7	0.0	39.3	41	9.1	5.5	12.6
college/certificate	56	190,110	6	11.7	0.0	39.3	37	61.2	0.0	100.0	8	14.8	0.0	34.3	5	12.3	0.0	40.8
university or upper	102	273,323	5	7.2	0.0	26.7	67	68.6	29.3	100.0	19	13.2	0.0	46.6	11	11.0	0.0	24.5
no income	58	196,423	12	17.6	0.0	42.3	32	52.1	29.6	74.5	9	22.3	17.7	26.9	5	8.0	5.6	10.4
1-4,999 baht	719	1,273,264	77	12.0	1.4	22.6	397	54.9	34.4	75.3	196	24.4	12.7	36.2	49	8.7	0.0	30.3
5,000-9,999 baht	350	892,467	27	9.6	3.7	15.6	211	61.4	60.8	62.1	85	20.9	20.4	21.5	27	8.0	3.2	12.8
10,000 baht upper	330	792,425	24	9.5	1.1	17.9	192	56.3	40.4	72.2	83	23.4	22.6	24.2	31	10.7	2.5	19.0



Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 4 Vegetable and fruit intake

Table 4.1 How many serving of fruit or vegetable did you eat in the past 7 days? (FRUIT&VEGET)

Variable	Frequency	WgtFreq	Aduquate intake (average greater than 5 servings per day)				Inadquate intake (average lower than 5 servings per day)			
			Frequenc	Percent	LowerCL	UpperCL	Frequenc	Percent	LowerCL	UpperCL
overall	1,550	3,435,708	287	17.8	15.9	19.7	1,263	82.2	80.3	84.1
municipal area	791	1,678,025	146	16.5	13.0	19.9	645	83.5	80.1	87.0
out municipal area	759	1,757,683	141	19.1	18.0	20.1	618	80.9	79.9	82.0
male	797	1,687,737	124	13.9	0.0	31.2	673	86.1	68.8	100.0
female	753	1,747,970	163	21.5	8.9	34.1	590	78.5	65.9	91.1
15-24 years	241	784,933	36	14.6	11.2	18.0	205	85.4	82.0	88.8
25-34 years	183	564,259	42	21.8	13.9	29.7	141	78.2	70.3	86.1
35-44 years	205	593,620	45	20.6	12.6	28.7	160	79.4	71.3	87.4
45-54 years	261	628,427	55	18.9	18.2	19.6	206	81.1	80.4	81.8
55-64 years	304	502,484	53	16.1	11.5	20.7	251	83.9	79.3	88.5
65-74 years	269	262,517	45	15.5	0.0	53.9	224	84.5	46.1	100.0
75-79 years	87	99,468	11	10.6	0.0	52.0	76	89.4	48.0	100.0
never attended school	21	21,874	5	23.7	0.0	56.3	16	76.3	43.7	100.0
pratoon 1-6	859	1,511,470	157	18.8	10.6	26.9	702	81.2	73.1	89.4
matayoom 1-6	508	1,429,291	97	17.8	9.9	25.7	411	82.2	74.3	90.1
college/certificate	57	193,697	8	8.1	0.0	24.1	49	91.9	75.9	100.0
university or upper	103	276,523	20	18.8	9.9	27.8	83	81.2	72.2	90.1
no income	61	211,576	9	14.8	7.0	22.6	52	85.2	77.4	93.0
1-4,999 baht	727	1,285,818	118	15.6	14.2	17.1	609	84.4	82.9	85.8
5,000-9,999 baht	353	899,379	65	16.5	0.0	38.5	288	83.5	61.5	100.0
10,000 baht upper	339	821,077	86	23.6	13.7	33.6	253	76.4	66.4	86.3

## Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

## Part 5 Tobacco

Table 5.1 Are you a smoker cigarettes?

Variable	Frequency	WgtFreq	Current smoker				Ex-smoker				Non-smoker			
			Frequency	Percent	LowerCL	UpperCL	Frequency	Percent	LowerCL	UpperCL	Frequency	Percent	LowerCL	UpperCL
overall	1,531	3,397,034	352	23.7	15.5	31.9	164	7.3	4.9	9.7	1,015	69.0	63.2	74.8
municipal area	782	1,665,117	179	23.3	6.6	39.9	78	7.2	6.2	8.3	525	69.5	53.9	85.1
out municipal area	749	1,731,918	173	24.1	24.0	24.2	86	7.3	3.6	11.1	490	68.6	64.7	72.4
male	787	1,662,301	347	47.5	24.7	70.2	159	14.4	9.1	19.6	281	38.2	20.7	55.7
female	744	1,734,733	5	0.9	0.0	4.0	5	0.5	0.0	1.6	734	98.6	96.6	100.0
15-24 years	240	780,889	56	28.7	0.0	89.2	7	1.7	0.0	14.5	177	69.6	21.9	100.0
25-34 years	183	564,259	55	28.6	16.0	41.2	7	2.5	0.0	16.6	121	68.9	67.4	70.4
35-44 years	202	585,309	54	23.6	8.4	38.9	17	9.8	0.0	28.3	131	66.6	63.3	69.9
45-54 years	256	611,561	71	24.8	13.1	36.5	21	6.7	3.6	9.8	164	68.5	53.7	83.3
55-64 years	303	500,984	68	17.6	5.0	30.3	41	10.8	0.9	20.7	194	71.6	49.0	94.2
65-74 years	264	258,532	36	10.9	1.6	20.2	57	20.9	7.9	33.9	171	68.2	64.5	71.9
75-79 years	83	95,500	12	13.8	4.3	23.2	14	14.2	13.6	14.7	57	72.1	62.0	82.1
never attended school	21	21,874	1	5.9	0.0	49.5	2	8.3	0.0	21.0	18	85.8	29.5	100.0
pratoon 1-6	846	1,491,491	186	20.7	0.0	43.0	120	11.2	9.7	12.6	540	68.1	47.2	88.9
matayoom 1-6	506	1,422,445	136	29.2	0.0	67.2	29	3.1	0.0	18.8	341	67.6	45.3	89.9
college/certificate	56	192,384	11	16.7	0.0	47.9	3	2.6	2.3	3.0	42	80.6	49.1	100.0
university or upper	100	265,986	18	17.5	0.0	65.5	10	11.0	0.0	51.8	72	71.5	0.0	100.0
no income	61	211,576	10	15.3	2.8	27.7	4	2.3	0.0	25.7	47	82.4	46.6	100.0
1-4,999 baht	721	1,274,050	139	19.3	12.0	26.6	85	8.5	6.6	10.3	497	72.2	66.8	77.6
5,000-9,999 baht	347	887,313	118	36.5	32.0	41.0	28	5.2	0.0	14.5	201	58.3	53.5	63.1
10,000 baht upper	336	815,665	76	21.3	0.0	42.9	35	6.3	0.0	12.5	225	72.5	44.6	100.0

Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 5 Tobacco

Table 5.2 During the past 12 months, have you stopped smoking for one day or longer because you are trying to quit smoking? (STOPSM1)

Variable	Frequency	WgtFreq	Yes				No			
			Frequency	Percent	LowerCL	UpperCL	Frequency	Percent	LowerCL	UpperCL
overall	344	793,068	174	49.5	34.1	64.9	170	50.5	35.1	65.9
municipal area	173	376,489	85	49.6	34.6	64.6	88	50.4	35.4	65.4
out municipal area	171	416,580	89	49.5	33.8	65.1	82	50.5	34.9	66.2
male	339	777,388	170	49.0	39.2	58.7	169	51.0	41.3	60.8
female	5	15,680	4	77.4	0.0	100.0	1	22.6	0.0	100.0
15-24 years	54	218,386	35	68.4	61.3	75.4	19	31.6	24.6	38.7
25-34 years	53	158,462	24	44.0	6.0	82.0	29	56.0	18.0	94.0
35-44 years	53	134,805	26	41.4	0.0	100.0	27	58.6	0.0	100.0
45-54 years	73	157,470	31	37.4	0.0	75.9	42	62.6	24.1	100.0
55-64 years	65	83,953	30	45.7	43.0	48.3	35	54.3	51.7	57.0
65-74 years	34	26,836	20	51.2	0.0	100.0	14	48.8	0.0	100.0
75-79 years	12	13,157	8	53.7	22.8	84.6	4	46.3	15.4	77.2
never attended school	1	1,299	1	100.0	100.0	100.0	0	0.0	0.0	0.0
pratoon 1-6	183	306,456	90	45.5	20.8	70.1	93	54.5	29.9	79.2
matayoom 1-6	130	403,170	73	55.0	52.9	57.0	57	45.0	43.0	47.1
college/certificate	11	32,197	3	25.5	0.0	100.0	8	74.5	0.0	100.0
university or upper	19	49,945	7	44.5	35.7	53.3	12	55.5	46.7	64.3
no income	8	28,320	5	66.7	0.0	100.0	3	33.3	0.0	100.0
1-4,999 baht	135	239,674	72	56.0	0.3	100.0	63	44.0	0.0	99.7
5,000-9,999 baht	117	323,242	55	41.2	0.0	96.3	62	58.8	3.7	100.0
10,000 baht upper	75	172,807	37	49.9	0.0	100.0	38	50.1	0.0	100.0

Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 6 Alcohol

Table 6.1 During the past year, did you drink alcohol beverage such as whiskey, beer, wine, etc.? (DRNKALC)

Variable	Frequency	WgtFreq	Yes				No			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,546	3,426,778	690	50.4	37.5	63.3	856	49.6	36.7	62.5
municipal area	789	1,675,257	354	49.8	48.5	51.0	435	50.2	49.0	51.5
out municipal area	757	1,751,521	336	51.0	27.3	74.7	421	49.0	25.3	72.7
male	796	1,682,881	484	68.8	50.5	87.2	312	31.2	12.8	49.5
female	750	1,743,898	206	32.6	22.6	42.7	544	67.4	57.3	77.4
15-24 years	241	784,933	128	53.2	41.7	64.6	113	46.8	35.4	58.3
25-34 years	183	564,259	115	65.7	30.1	100.0	68	34.3	0.0	69.9
35-44 years	204	592,315	126	58.6	35.8	81.4	78	41.4	18.6	64.2
45-54 years	260	623,570	132	51.4	29.5	73.2	128	48.6	26.8	70.5
55-64 years	303	500,799	116	39.7	15.9	63.6	187	60.3	36.4	84.1
65-74 years	269	262,517	58	21.7	7.7	35.7	211	78.3	64.3	92.3
75-79 years	86	98,385	15	16.0	0.0	43.2	71	84.0	56.8	100.0
never attended school	21	21,874	3	23.1	0.0	47.9	18	76.9	52.1	100.0
pratoon 1-6	856	1,504,226	321	42.6	23.1	62.2	535	57.4	37.8	76.9
matayoom 1-6	507	1,427,605	279	56.5	48.1	64.8	228	43.5	35.2	51.9
college/certificate	57	193,697	30	58.0	42.1	74.0	27	42.0	26.0	57.9
university or upper	103	276,523	57	58.8	36.8	80.7	46	41.2	19.3	63.2
no income	61	211,576	21	32.6	25.6	39.6	40	67.4	60.4	74.4
1-4,999 baht	726	1,280,961	260	42.2	21.8	62.7	466	57.8	37.3	78.2
5,000-9,999 baht	353	899,379	204	62.2	43.5	80.9	149	37.8	19.1	56.5
10,000 baht upper	338	819,391	179	55.7	43.0	68.5	159	44.3	31.5	57.0

## Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

## Part 6 Alcohol

Table 6.2 During the past 30 days, did you drink alcohol such as whisky, beer, wine, or local beverage? (ALCOHOL30)

Variable	Frequency	WgtFreq	Yes				No			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,546	3,426,778	610	43.5	35.1	52.0	936	56.5	48.0	64.9
municipal area	789	1,675,257	310	41.4	16.5	66.3	479	58.6	33.7	83.5
out municipal area	757	1,751,521	300	45.6	39.5	51.8	457	54.4	48.2	60.5
male	796	1,682,881	445	61.8	56.3	67.4	351	38.2	32.6	43.7
female	750	1,743,898	165	25.9	17.1	34.7	585	74.1	65.3	82.9
15-24 years	241	784,933	110	45.6	33.7	57.6	131	54.4	42.4	66.3
25-34 years	183	564,259	108	60.5	40.1	80.9	75	39.5	19.1	59.9
35-44 years	204	592,315	114	50.1	7.4	92.8	90	49.9	7.2	92.6
45-54 years	260	623,570	117	44.0	39.7	48.4	143	56.0	51.6	60.3
55-64 years	303	500,799	101	33.1	29.5	36.7	202	66.9	63.3	70.5
65-74 years	269	262,517	48	17.6	10.3	24.9	221	82.4	75.1	89.7
75-79 years	86	98,385	12	9.1	5.7	12.5	74	90.9	87.5	94.3
never attended school	21	21,874	3	23.1	0.0	47.9	18	76.9	52.1	100.0
pratoon 1-6	856	1,504,226	281	36.6	30.7	42.6	575	63.4	57.4	69.3
matayoom 1-6	507	1,427,605	252	49.7	33.5	65.8	255	50.3	34.2	66.5
college/certificate	57	193,697	26	49.5	39.1	59.9	31	50.5	40.1	60.9
university or upper	103	276,523	48	47.3	28.1	66.5	55	52.7	33.5	71.9
no income	61	211,576	19	29.4	27.4	31.5	42	70.6	68.5	72.6
1-4,999 baht	726	1,280,961	229	37.0	28.8	45.2	497	63.0	54.8	71.2
5,000-9,999 baht	353	899,379	185	54.5	47.0	62.1	168	45.5	37.9	53.0
10,000 baht upper	338	819,391	158	49.3	37.6	60.9	180	50.7	39.1	62.4

Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 6 Alcohol

Table 6.3 During the past 30 days, how many time have you ever binge drink? (male: drink greater than 5 standard drinks per occasion or female drink greater than 4 standard drinks per occasion) (DRNKGES5)

Variable	Frequency	WgtFreq	Yes				No			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,546	3,426,778	154	12.5	2.7	22.4	1392	87.5	77.6	97.3
municipal area	789	1,675,257	82	13.9	0.0	35.3	707	86.1	64.7	100.0
out municipal area	757	1,751,521	72	11.2	10.8	11.7	685	88.8	88.3	89.2
male	796	1,682,881	118	19.2	0.0	43.9	678	80.8	56.1	100.0
female	750	1,743,898	36	6.1	2.5	9.7	714	93.9	90.3	97.5
15-24 years	241	784,933	38	19.4	0.0	47.4	203	80.6	52.6	100.0
25-34 years	183	564,259	29	14.9	14.0	15.8	154	85.1	84.2	86.0
35-44 years	204	592,315	31	13.6	8.6	18.6	173	86.4	81.4	91.4
45-54 years	260	623,570	29	11.2	0.0	26.3	231	88.8	73.7	100.0
55-64 years	303	500,799	22	7.5	0.0	17.7	281	92.5	82.3	100.0
65-74 years	269	262,517	5	2.2	0.0	4.6	264	97.8	95.4	100.0
75-79 years	86	98,385	0	0.0	0.0	0.0	86	100.0	100.0	100.0
never attended school	21	21,874	0	0.0	0.0	0.0	21	100.0	100.0	100.0
pratoon 1-6	856	1,504,226	49	6.7	0.0	14.6	807	93.3	85.4	100.0
matayoom 1-6	507	1,427,605	78	17.0	0.0	41.1	429	83.0	58.9	100.0
college/certificate	57	193,697	7	14.0	0.9	27.2	50	86.0	72.8	99.1
university or upper	103	276,523	20	21.3	0.0	77.6	83	78.7	22.4	100.0
no income	61	211,576	6	10.0	0.0	41.7	55	90.0	58.3	100.0
1-4,999 baht	726	1,280,961	43	9.6	4.6	14.6	683	90.4	85.4	95.4
5,000-9,999 baht	353	899,379	50	13.5	8.9	18.2	303	86.5	81.8	91.1
10,000 baht upper	338	819,391	49	16.3	0.0	33.6	289	83.7	66.4	100.0

Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 6 Alcohol

Table 6.4 During the past 30 days, have you ever had heavy drinking? (male: average greater 2 standard drinks per day or female : average greater 1 standard drink)

Variable	Frequency	WgtFreq	Yes				No			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,550	3,435,708	119	10.2	0.0	26.5	1,431	89.8	73.5	100.0
municipal area	791	1,678,025	59	10.1	0.0	25.7	732	89.9	74.3	100.0
out municipal area	759	1,757,683	60	10.3	0.0	27.2	699	89.7	72.8	100.0
male	797	1,687,737	108	18.5	0.0	52.1	689	81.5	47.9	100.0
female	753	1,747,970	11	2.1	1.5	2.8	742	97.9	97.2	98.5
15-24 years	241	784,933	29	16.3	0.0	55.5	212	83.7	44.5	100.0
25-34 years	183	564,259	22	14.0	0.0	43.1	161	86.0	56.9	100.0
35-44 years	205	593,620	19	8.1	5.1	11.2	186	91.9	88.8	94.9
45-54 years	261	628,427	22	8.7	0.0	24.5	239	91.3	75.5	100.0
55-64 years	304	502,484	21	7.1	0.0	16.8	283	92.9	83.2	100.0
65-74 years	269	262,517	6	1.5	0.0	12.2	263	98.5	87.8	100.0
75-79 years	87	99,468	0	0.0	0.0	0.0	87	100.0	100.0	100.0
never attended school	21	21,874	0	0.0	0.0	0.0	21	100.0	100.0	100.0
pratoon 1-6	859	1,511,470	41	5.1	2.1	8.0	818	94.9	92.0	97.9
matayoom 1-6	508	1,429,291	57	13.6	0.0	45.1	451	86.4	54.9	100.0
college/certificate	57	193,697	8	18.9	1.5	36.3	49	81.1	63.7	98.5
university or upper	103	276,523	13	15.0	0.0	60.4	90	85.0	39.6	100.0
no income	61	211,576	6	9.4	0.0	27.3	55	90.6	72.7	100.0
1-4,999 baht	727	1,285,818	30	6.6	0.0	25.0	697	93.4	75.0	100.0
5,000-9,999 baht	353	899,379	43	12.9	6.7	19.1	310	87.1	80.9	93.3
10,000 baht upper	339	821,077	36	13.5	0.0	49.7	303	86.5	50.3	100.0

Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 7 Quality of life

Table 7.1 How about your mobility, your self-care, your usual activities, your pain or discomfort, anxiety or depression today? (QLIFE)

Variable	Frequency	WgtFreq	No problem in all aspects				Have at least one problem			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,550	3,435,708	1,128	79.4	64.0	94.9	422	20.6	5.1	36.0
municipal area	791	1,678,025	577	78.4	66.3	90.4	214	21.6	9.6	33.7
out municipal area	759	1,757,683	551	80.5	62.3	98.6	208	19.5	1.4	37.7
male	797	1,687,737	605	80.9	58.9	100.0	192	19.1	0.0	41.1
female	753	1,747,970	523	78.0	68.6	87.4	230	22.0	12.6	31.4
15-24 years	241	784,933	215	91.1	63.8	100.0	26	8.9	0.0	36.2
25-34 years	183	564,259	159	87.9	62.1	100.0	24	12.1	0.0	37.9
35-44 years	205	593,620	171	84.7	78.1	91.3	34	15.3	8.7	21.9
45-54 years	261	628,427	200	78.6	65.3	91.8	61	21.4	8.2	34.7
55-64 years	304	502,484	200	65.5	50.8	80.2	104	34.5	19.8	49.2
65-74 years	269	262,517	144	53.7	22.7	84.7	125	46.3	15.3	77.3
75-79 years	87	99,468	39	52.0	0.0	100.0	48	48.0	0.0	100.0
never attended school	21	21,874	9	53.9	0.0	100.0	12	46.1	0.0	100.0
pratoon 1-6	859	1,511,470	558	71.1	57.1	85.1	301	28.9	14.9	42.9
matayoom 1-6	508	1,429,291	431	87.7	72.2	100.0	77	12.3	0.0	27.8
college/certificate	57	193,697	46	85.3	59.5	100.0	11	14.7	0.0	40.5
university or upper	103	276,523	83	80.2	69.8	90.7	20	19.8	9.3	30.2
no income	61	211,576	54	85.8	69.4	100.0	7	14.2	0.0	30.6
1-4,999 baht	727	1,285,818	486	75.1	41.9	100.0	241	24.9	0.0	58.1
5,000-9,999 baht	353	899,379	279	85.0	61.7	100.0	74	15.0	0.0	38.3
10,000 baht upper	339	821,077	253	78.4	68.3	88.4	86	21.6	11.6	31.7



Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 8 Cholesterol

Table 8.1 How long do you have your blood lipid checked by health professional? (LASTCHOLE)

Variable	Frequency	WgtFreq	Within past 1 year ago				Over 1 to 2 years ago				More than 2 years ago				Never			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,528	3,384,791	524	28.0	9.8	46.2	56	4.2	0.0	8.4	81	4.7	0.1	9.2	867	63.1	45.3	80.9
municipal area	781	1,655,413	289	28.3	25.3	31.3	26	3.5	0.0	10.5	41	4.3	0.0	9.8	425	63.8	48.4	79.3
out municipal area	747	1,729,378	235	27.7	0.0	66.3	30	4.8	0.0	19.4	40	5.0	1.1	8.9	442	62.4	13.2	100.0
male	783	1,654,504	240	25.5	2.0	49.1	30	4.3	0.0	12.0	37	3.4	0.0	15.9	476	66.8	48.0	85.5
female	745	1,730,287	284	30.4	17.6	43.1	26	4.1	3.3	4.9	44	5.9	3.0	8.9	391	59.6	43.1	76.1
15-24 years	239	776,720	23	11.2	0.0	46.9	5	2.0	0.0	8.3	6	3.1	2.5	3.7	205	83.7	42.3	100.0
25-34 years	180	553,549	35	19.5	13.5	25.5	11	7.1	0.0	20.3	7	3.8	0.0	12.9	127	69.6	59.5	79.7
35-44 years	203	587,755	40	18.0	10.4	25.7	9	6.5	5.5	7.4	10	3.9	0.0	14.1	144	71.6	70.0	73.2
45-54 years	257	615,239	94	38.9	0.0	82.1	1	0.4	0.0	4.9	21	8.3	0.7	16.0	141	52.4	6.0	98.8
55-64 years	301	497,364	143	45.7	35.1	56.3	14	5.4	0.3	10.5	18	4.7	0.0	17.4	126	44.2	41.1	47.2
65-74 years	263	255,749	147	55.1	32.0	78.2	13	6.6	0.0	20.2	12	3.0	0.0	15.9	91	35.3	11.5	59.0
75-79 years	85	98,416	42	40.5	0.0	100.0	3	2.6	0.0	34.1	7	8.4	0.0	30.7	33	48.5	0.0	100.0
never attended school	21	21,874	11	52.5	0.0	100.0	0	0.0	0.0	0.0	1	2.8	0.0	28.0	9	44.7	0.0	100.0
pratoon 1-6	847	1,490,147	338	33.2	21.3	45.1	30	3.1	0.6	5.6	41	5.3	0.0	16.6	438	58.4	37.8	79.1
matayoom 1-6	501	1,409,028	113	21.2	0.0	54.2	16	3.9	0.0	15.7	29	4.2	0.0	17.5	343	70.7	39.3	100.0
college/certificate	55	186,691	20	28.3	1.7	54.9	2	7.4	0.0	36.9	5	5.5	0.0	50.0	28	58.8	17.2	100.0
university or upper	102	274,197	41	32.8	27.7	37.9	8	9.9	0.0	25.4	5	3.6	0.0	23.2	48	53.7	13.4	94.0
no income	59	202,444	9	13.0	0.0	32.9	0	0.0	0.0	0.0	2	5.7	0.0	24.6	48	81.4	42.5	100.0
1-4,999 baht	720	1,270,623	273	28.2	23.7	32.7	21	2.6	2.4	2.8	26	3.7	0.0	7.9	400	65.5	56.6	74.4
5,000-9,999 baht	348	890,312	101	26.9	0.0	54.4	9	3.1	0.0	14.1	22	4.3	0.0	25.5	216	65.7	48.3	83.0
10,000 baht upper	332	804,038	123	34.2	1.0	67.4	24	9.9	0.0	21.7	28	7.1	1.7	12.6	157	48.8	9.2	88.4

## Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

## Part 8 Cholesterol

Table 8.2 Have you ever been told by doctors, nurse, or public health personals that you have hyperlipidemia? (CHOLE)

Variable	Frequency	WgtFreq	Yes				No			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	656	1,233,233	161	20.4	9.8	31.0	495	79.6	69.0	90.2
municipal area	351	584,981	87	19.9	6.2	33.5	264	80.1	66.5	93.8
out municipal area	305	648,252	74	20.9	11.9	29.8	231	79.1	70.2	88.1
male	309	556,430	80	21.8	10.4	33.2	229	78.2	66.8	89.6
female	347	676,803	81	19.2	9.0	29.5	266	80.8	70.5	91.0
15-24 years	35	132,410	0	0.0	0.0	0.0	35	100.0	100.0	100.0
25-34 years	53	167,154	1	4.9	0.0	30.8	52	95.1	69.2	100.0
35-44 years	60	169,171	7	8.1	0.0	49.6	53	91.9	50.4	100.0
45-54 years	114	274,449	37	32.9	28.4	37.5	77	67.1	62.5	71.6
55-64 years	171	273,493	53	29.7	14.6	44.8	118	70.3	55.2	85.4
65-74 years	170	165,285	52	29.2	22.1	36.2	118	70.8	63.8	77.9
75-79 years	53	51,271	11	18.7	0.0	64.5	42	81.3	35.5	100.0
never attended school	11	11,479	3	38.3	0.0	100.0	8	61.7	0.0	100.0
pratoon 1-6	405	615,223	112	24.5	5.7	43.3	293	75.5	56.7	94.3
matayoom 1-6	157	399,496	25	13.2	3.8	22.5	132	86.8	77.5	96.2
college/certificate	28	80,525	7	21.4	4.5	38.4	21	78.6	61.6	95.5
university or upper	54	125,733	13	20.5	16.4	24.6	41	79.5	75.4	83.6
no income	13	46,887	2	7.6	0.0	47.8	11	92.4	52.2	100.0
1-4,999 baht	316	434,758	87	25.8	24.1	27.5	229	74.2	72.5	75.9
5,000-9,999 baht	131	286,607	30	16.2	0.0	35.7	101	83.8	64.3	100.0
10,000 baht upper	175	414,559	41	20.9	20.8	20.9	134	79.1	79.1	79.2

Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 9 Hypertension

Table 9.1 How long have you checked your blood pressure by doctors, nurses, health personals, or health volunteer? (LASTBP)

Variable	Frequency	WgtFreq	Within past 1 year ago				Over 1 to 2 years ago				More than 2 years ago				Never			
			Freque	Percent	LowerC	UpperC	Freque	Percent	LowerC	UpperC	Freque	Percent	LowerC	UpperC	Freque	Percent	LowerC	UpperC
overall	1,532	3,391,252	1,148	68.8	65.8	71.8	103	6.9	0.0	15.3	58	5.2	3.6	6.9	223	19.1	9.3	28.9
municipal area	782	1,661,858	581	65.9	51.2	80.6	49	6.9	0.0	21.5	23	4.2	1.6	6.8	129	23.1	0.0	49.8
out municipal area	750	1,729,394	567	71.6	64.7	78.5	54	6.9	4.4	9.3	35	6.2	6.0	6.5	94	15.3	10.5	20.1
male	784	1,654,484	534	62.9	41.9	83.9	66	8.1	0.0	24.0	30	3.8	0.0	14.5	154	25.3	19.6	31.0
female	748	1,736,767	614	74.4	47.8	100.0	37	5.7	4.6	6.8	28	6.6	0.0	19.9	69	13.3	0.0	27.6
15-24 years	238	774,101	122	51.5	46.6	56.5	12	5.1	0.0	10.6	16	6.2	0.0	28.8	88	37.2	25.1	49.3
25-34 years	179	552,505	111	62.0	48.3	75.8	23	11.8	0.0	27.0	6	4.0	0.0	10.5	39	22.2	17.2	27.2
35-44 years	201	585,107	145	62.7	44.5	80.9	17	8.8	0.0	51.9	7	5.1	1.3	9.0	32	23.4	0.0	80.8
45-54 years	257	618,296	209	80.6	77.7	83.6	12	4.2	0.0	11.0	11	6.4	0.0	24.8	25	8.7	0.0	23.3
55-64 years	303	500,984	256	84.0	64.8	100.0	20	5.9	0.0	20.2	7	4.5	0.0	12.7	20	5.6	2.4	8.7
65-74 years	267	260,790	235	88.3	70.7	100.0	12	4.1	0.0	18.2	7	2.8	0.5	5.0	13	4.8	3.5	6.1
75-79 years	87	99,468	70	74.6	43.6	100.0	7	10.4	0.0	22.3	4	7.8	0.0	30.0	6	7.1	4.1	10.2
never attended school	21	21,874	19	90.6	88.0	93.2	0	0.0	0.0	0.0	0	0.0	0.0	0.0	2	9.4	6.8	12.0
pratoon 1-6	851	1,494,757	676	74.4	72.0	76.9	55	5.7	0.0	12.9	30	6.9	0.0	27.3	90	13.0	2.2	23.9
matayoom 1-6	503	1,415,123	338	63.8	63.2	64.3	35	6.8	0.0	14.6	22	3.9	0.0	22.6	108	25.5	0.0	51.5
college/certificate	55	186,691	39	64.0	56.3	71.7	4	10.4	2.5	18.4	2	3.6	0.0	20.8	10	21.9	0.0	54.7
university or upper	100	269,954	74	65.0	44.7	85.4	9	11.9	0.0	34.1	4	4.9	0.0	19.0	13	18.2	0.0	46.7
no income	61	211,576	34	48.8	46.9	50.8	1	1.7	0.0	7.0	4	14.3	0.0	40.8	22	35.2	5.3	65.0
1-4,999 baht	720	1,267,082	568	73.9	73.7	74.2	44	6.5	0.0	14.9	24	4.2	0.0	8.4	84	15.4	11.4	19.4
5,000-9,999 baht	347	887,234	247	67.7	48.3	87.2	26	6.9	0.0	25.9	17	5.6	0.0	14.2	57	19.8	11.6	27.9
10,000 baht upper	334	807,502	256	71.1	69.5	72.7	30	10.4	0.0	32.2	10	3.8	0.0	14.2	38	14.6	4.8	24.4

## Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

## Part 9 Hypertension

Table 9.2 Have you ever been told by doctors, nurses, or public health personals that you have hypertension? (BPHIGH)

Variable	Frequency	WgtFreq	Yes				No			
			Frequen	Percent	LowerCL	UpperCL	Frequen	Percent	LowerCL	UpperCL
overall	1,312	2,750,331	214	11.8	0.0	23.8	1,098	88.2	76.2	100.0
municipal area	655	1,282,065	115	13.4	0.0	27.3	540	86.6	72.7	100.0
out municipal area	657	1,468,267	99	10.4	0.0	21.9	558	89.6	78.1	100.0
male	632	1,243,807	100	11.4	0.0	24.5	532	88.6	75.5	100.0
female	680	1,506,525	114	12.1	1.0	23.2	566	87.9	76.8	99.0
15-24 years	152	494,288	0	0.0	0.0	0.0	152	100.0	100.0	100.0
25-34 years	141	433,098	6	3.8	0.0	16.8	135	96.2	83.2	100.0
35-44 years	169	448,981	10	3.7	0.0	13.9	159	96.3	86.1	100.0
45-54 years	232	563,567	24	14.6	0.0	69.0	208	85.4	31.0	100.0
55-64 years	283	473,219	55	21.2	17.1	25.4	228	78.8	74.6	82.9
65-74 years	255	249,088	90	34.1	0.0	81.7	165	65.9	18.3	100.0
75-79 years	80	88,091	29	27.1	0.0	78.0	51	72.9	22.0	100.0
never attended school	19	19,816	6	25.0	0.0	62.8	13	75.0	37.2	100.0
pratoon 1-6	762	1,299,414	161	16.3	10.2	22.5	601	83.7	77.5	89.8
matayoom 1-6	394	1,055,016	35	7.1	0.0	19.0	359	92.9	81.0	100.0
college/certificate	46	149,275	3	2.2	0.0	16.3	43	97.8	83.7	100.0
university or upper	89	223,958	9	13.0	0.0	61.4	80	87.0	38.6	100.0
no income	39	137,164	3	3.4	0.0	12.2	36	96.6	87.8	100.0
1-4,999 baht	635	1,070,775	134	15.5	2.7	28.2	501	84.5	71.8	97.3
5,000-9,999 baht	291	714,038	29	7.9	0.0	19.2	262	92.1	80.8	100.0
10,000 baht upper	299	695,999	43	12.3	0.0	37.6	256	87.7	62.4	100.0

## Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

## Part 9 Hypertension

Table 9.3 How many times did you see a doctors or a nurse or a health personals for hypertension treatment in the last 12 months? (FRECARBP)

Variable	Frequency	WgtFreq	Never				One or two times per year				three or four times per year				five or six times per year				more than six times per year			
			Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl
overall	215	328,174	28	19.1	7.6	30.7	21	9.8	9.0	10.6	77	36.4	0.0	91.9	55	23.0	0.0	68.5	34	11.7	0.0	32.3
municipal area	115	171,501	18	19.2	2.4	35.9	7	5.7	0.0	22.6	47	47.8	0.0	100.0	29	17.3	0.0	100.0	14	9.9	0.0	22.0
out municipal area	100	156,673	10	19.1	0.0	61.7	14	14.3	2.3	26.2	30	23.9	23.4	24.5	26	29.2	24.7	33.6	20	13.6	0.0	72.0
male	101	145,785	18	24.3	0.0	58.9	8	7.9	3.0	12.9	40	37.4	0.0	100.0	24	21.9	0.0	63.3	11	8.6	0.0	29.8
female	114	182,389	10	15.0	0.0	62.3	13	11.3	6.3	16.3	37	35.7	9.9	61.4	31	23.9	0.0	72.4	23	14.2	0.0	33.6
15-24 years	6	16,655	3	45.5	0.0	100.0	0	0.0	0.0	0.0	2	42.8	19.6	66.0	1	11.7	0.0	100.0	0	0.0	0.0	0.0
25-34 years	10	16,673	1	7.3	0.0	69.7	2	20.0	3.0	36.9	4	42.3	0.0	100.0	2	22.6	0.0	100.0	1	7.8	0.0	69.2
35-44 years	25	85,502	7	30.5	10.8	50.2	2	8.4	0.0	21.9	5	28.6	0.0	74.8	6	20.7	0.0	73.9	5	11.8	0.0	38.0
45-54 years	55	100,537	5	17.8	1.2	34.4	7	15.0	0.4	29.5	20	30.1	17.0	43.2	13	26.2	5.7	46.6	10	11.0	0.0	75.8
55-64 years	90	84,927	8	6.6	0.0	33.9	8	6.4	0.0	22.6	37	50.4	0.0	100.0	23	21.6	0.0	74.3	14	14.9	13.7	16.1
65-74 years	29	23,879	4	18.5	0.0	97.3	2	4.9	0.0	53.2	9	32.6	0.0	100.0	10	30.6	0.0	100.0	4	13.4	7.8	19.0
75-79 years	6	4,961	0	0.0	0.0	0.0	1	10.5	0.0	100.0	1	25.5	0.0	100.0	2	38.9	0.0	100.0	2	25.2	0.0	100.0
never attended school	161	212,244	18	15.0	2.1	27.9	17	12.4	3.7	21.1	52	31.1	0.0	73.3	45	26.1	0.0	77.3	29	15.5	2.9	28.0
pratoon 1-6	35	75,070	7	14.3	0.0	100.0	1	0.7	0.0	3.5	19	58.4	0.0	100.0	5	20.9	11.4	30.3	3	5.7	0.0	29.6
matayoom 1-6	3	3,224	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	31.7	0.0	100.0	2	68.3	0.0	100.0	0	0.0	0.0	0.0
college/certificate	10	32,675	3	61.9	0.0	100.0	2	14.6	0.0	75.1	4	22.7	0.0	70.0	1	0.8	0.0	12.6	0	0.0	0.0	0.0
university or upper	3	4,700	0	0.0	0.0	0.0	0	0.0	0.0	0.0	1	21.0	0.0	100.0	1	32.2	0.0	100.0	1	46.8	0.0	100.0
no income	134	165,533	12	12.1	0.0	41.6	12	8.0	6.1	9.9	45	28.5	0.0	80.7	42	37.1	1.0	73.2	23	14.3	0.0	57.9
1-4,999 baht	29	56,091	5	14.1	0.0	77.7	4	14.9	0.0	84.3	8	49.9	0.0	100.0	9	18.0	0.3	35.8	3	3.1	0.0	25.1
5,000-9,999 baht	44	89,181	9	35.6	0.0	85.4	4	8.7	0.0	36.6	21	41.0	0.0	97.5	3	2.6	0.0	37.6	7	12.0	0.0	25.8
10,000 baht upper	106	191,985	3	2.7	0.0	13.7	13	12.0	0.0	96.1	20	20.8	0.0	58.4	28	26.3	0.0	100.0	42	38.2	0.0	100.0



Behavioral Risk Factor Surveillance System 2015 (Health Regional 7)

Part 9 Hypertension

Table 9.4 How many times did you get a blood examination for renal function test and complication from hypertension which was ordered by doctor in the last 12 months? (HTRENEX)

Variable	Frequency	WgtFreq	Never				One or two times per year				Three or four times per year				Five or six times per year				More than six times per year			
			Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl	Frequen	Percent	LowerCl	UpperCl
overall	214	327,936	94	47.3	17.7	76.9	102	45.4	8.7	82.1	14	6.4	0.0	21.5	3	0.6	0.0	5.5	1	0.3	0.0	3.4
municipal area	115	171,501	51	54.3	10.6	98.0	55	39.4	0.0	97.3	7	5.4	0.0	29.8	2	0.9	0.0	11.1	0	0.0	0.0	0.0
out municipal area	99	156,435	43	39.7	17.2	62.1	47	51.9	31.3	72.5	7	7.5	3.9	11.2	1	0.4	0.0	1.7	1	0.5	0.0	7.3
male	100	145,547	49	47.9	41.4	54.4	41	44.4	39.7	49.1	8	6.8	4.7	8.9	2	0.8	0.0	4.8	0	0.0	0.0	0.0
female	114	182,389	45	46.9	0.0	94.8	61	46.2	0.0	100.0	6	6.1	0.0	31.4	1	0.5	0.0	6.1	1	0.5	0.0	6.0
15-24 years																						
25-34 years	6	16,655	4	74.5	0.0	100.0	2	25.5	0.0	100.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0
35-44 years	10	16,673	4	32.1	19.9	44.2	5	55.8	0.0	100.0	1	12.2	0.0	100.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0
45-54 years	25	85,502	12	55.6	54.4	56.8	12	43.4	27.7	59.2	0	0.0	0.0	0.0	1	1.0	0.0	15.6	0	0.0	0.0	0.0
55-64 years	55	100,537	20	42.1	0.0	87.9	29	45.4	0.0	100.0	6	12.5	0.0	44.7	0	0.0	0.0	0.0	0	0.0	0.0	0.0
65-74 years	89	84,689	41	42.7	15.2	70.2	40	49.2	20.3	78.1	6	6.4	0.0	14.6	1	0.7	0.0	3.3	1	1.0	0.0	13.3
75-79 years	29	23,879	13	47.6	0.0	100.0	14	45.6	0.0	100.0	1	4.1	0.0	30.4	1	2.7	0.0	29.4	0	0.0	0.0	0.0
never attended school	6	4,961	2	38.4	25.6	51.3	4	61.6	48.7	74.4	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0
pratoon 1-6	160	212,005	71	43.3	22.4	64.3	74	47.1	12.8	81.3	12	8.6	0.0	29.0	2	0.6	0.0	3.0	1	0.4	0.0	5.1
matayoom 1-6	35	75,070	14	51.1	43.7	58.5	18	44.1	37.2	51.0	2	3.7	0.0	17.4	1	1.1	0.0	15.3	0	0.0	0.0	0.0
college/certificate	3	3,224	1	27.4	0.0	100.0	2	72.6	0.0	100.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0
university or upper	10	32,675	6	67.7	0.0	100.0	4	32.3	0.0	100.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0
no income	3	4,700	3	100.0	100.0	100.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0
1-4,999 baht	133	165,294	52	33.7	9.7	57.8	70	56.0	16.6	95.4	9	9.2	0.0	36.4	1	0.5	0.0	6.5	1	0.5	0.0	6.4
5,000-9,999 baht	29	56,091	15	69.3	1.0	100.0	9	21.6	0.0	85.7	3	6.9	0.1	13.7	2	2.2	0.0	13.3	0	0.0	0.0	0.0
10,000 baht upper	44	89,181	21	54.1	30.9	77.3	21	43.8	27.3	60.2	2	2.1	0.0	8.9	0	0.0	0.0	0.0	0	0.0	0.0	0.0

