### CHAPTER IV

### RESULTS

The present research aimed at investigating the performance of caretakers in preventing Dengue Hemorrhagic Fever (DF) while providing care for the patients at home in Trang Province. Data were collected by means of questionnaires distributed to 384 caretakers. All questionnaires (100%) were returned and analyzed by using the SPSS for Windows Program. In this chapter, the study findings derived from the data analysis are presented in the following order:

Part 1	Personal data and factors related to the prevention of DF
Part 2	Factors related to the caretakers
	2.1 Knowledge about DF
	2.2 Perception of susceptibility and severity of DF
Part 3	Factors related to performance in the prevention of DF
Part 4	Evaluation of results from the performance in the prevention
	of DF (from the observations and interviews)
Part 5	Relationship between personal data and factors related to the
	prevention of DF of the caretakers

Each part could be described in detail as follows:

### Part 1: Personal data and factors related to the prevention of DF

### 1.1 Personal data of the caretakers

The majority of DF caretakers were female (71.35%), and only a little more than one-fourth were male (28.65%).

In addition, 86.98% of the caretakers were Buddhist, while 13.02% were Islam.

As for age, about one-third of the caretakers (32.02%) and another onethird (32.03%) were between 30 and 39 years old and between 40 and 49 years old, 15.63% ranged in age from 20 to 29 years old, and only 2.86% were older than 60 years old.

In terms of occupation, close to two-thirds, or 64.32%, of the caretakers were gardeners and farmers, 13.02% were employees, and 1.56% were government officials or public enterprise employees.

Regarding education, approximately two-thirds of the caretakers (68.75%) completed primary education, 22.66% graduated with a high school diploma or vocational certificate, and 2.98% held a bachelor's degree.

With regard to monthly income, more than half, or 63.80%, of the caretakers earned between 5,000 and 10,000 Baht per month, 16.93% earned between 10,001 and 15,000 Baht per month, and only 2.86% earned more than 15,000 Baht per month.

In addition, in terms of marital status, the majority of the caretakers were married (79.17%), 16.67% were single, and only 0.78% was divorced/separated.

The number of caretakers providing care for DF patients ranged from one to two persons (89.32%), three to four persons (8.59%), and five to six persons (2.08%).

Concerning the relationship between the patients and the caretakers, the study findings indicated that the largest group of caretakers were the children of the patients (39.84%), father or mother (30.21%), and brother, sister, aunt, uncle, grandfather, or grandmother (8.07%).

In the previous five years, there had been no DF patients (93.75%), while there were 24 patients (6.25%) in the year the study was conducted.

As regards experience with DF care, most DF caretakers had never provided care for the patients before (90.10%), whereas only 9.90% of the caretakers had experience taking care of DF patients in the past.

Lastly, most caretakers, or 79.43%, knew that the patients suffered from DF, while 20.57% did not, as depicted in Table 4.1.

Pers	onal data of the caretakers	Number ( n = 384 )	Percentage
Gen	der		
-	Male	110	28.65
-	Female	274	71.35
Reli	gion		
-	Buddhism	334	86.98
-	Islam	50	13.02
Age			
-	Younger than 20 years old	45	11.72
-	20 - 29 years old	60	15.63
-	30 - 39 years old	123	32.03
-	40 - 49 years old	123	32.03
-	50 - 59 years old	22	5.73
-	Older than 60 years old	11	2.86
Occi	upation		
-	Farmer, gardener, Field Farmer	247	64.32
-	Merchant	25	6.51
-	Government official or public	6	1.56
	enterprise employee		
-	Employee	50	13.02
-	Others	56	14.58
Edu	cation		
-	No formal education	9	2.34
÷	Primary education	264	68.75
Ξ	Secondary education/Vocational	87	22.66
	certificate		
2	Diploma	16	4.17
-	Bachelor's degree	8	2.08

Table 4.1: Personal data of the caretakers

Personal data of the caretakers	Number ( n = 384 )	Percentage
Monthly income		
- Less than 5,000 Baht/month	63	16.41
- 5,000 – 10,000 Baht/month	245	63.80
- 10,001 - 15,000 Baht/month	65	16.93
- More than 15,000 Baht/month	11	2.86
Marital Status		
- Single	64	16.67
- Married	304	79.17
- Widowed	13	3.39
- Divorced/Separated	3	0.78
Number of Caretakers Providing Care for		
DF Patients		
- 1 – 2 persons	343	89.32
- 3 – 4 persons	33	8.59
- 5 – 6 persons	8	2.08
Relationship between the patients and the		
caretakers		
- Child of caretaker	153	39.84
- Father or mother	116	30.21
- Brother, sister, aunt, uncle,	31	8.07
grandfather, or grandmother		
- Others	84	21.88
Family members' experience with DF in		
the previous five years		
- No	360	93.75
- Yes	24	6.25
Total	384	100.00

Table 4.1: (Cont.) Personal data of the caretakers

Personal data of the caretakers	Number ( $n = 384$ )	Percentage	
Family members' experience with DF in			
the previous five years (with the years			
specified)			
- In 2000	2	8.33	
- In 2001	3	12.50	
- In 2002	2	8.33	
- In 2003	4	16.67	
- In 2004	13	54.17	
Total	24	100.00	
Experience taking care of other DF			
patients			
- No	346	90.10	
- Yes	38	9.90	
Knowledge about DF status of the patients			
to whom care was provided			
- No	79	20.57	
- Yes	305	79.43	

Table 4.1: (Cont.) Personal data of the caretakers

#### 1.2 Factors related to the prevention of DF

Concerning the factors related to the prevention of DF, most caretakers, or 84.90%, obtained necessary advice from the public health volunteers (PHVs) (84.90%). Second came from the public health officers working near their house at 83.33%, while 0.78% did not receive any advice from anyone.

In terms of the sources of knowledge related to DF, 87.76% of the caretakers learned about DF from television, 82.03% from medical team (doctors, nurses, or public health officers), while 5.21% obtained knowledge about DF from the neighbors.

Finally, people participating most in the prevention of DF were the PHVs (79.17%), family members (73.44%), and neighbors (44.01%), as detailed in

Factors related to the prevention of DF	Number	Percentage
	(n =384)	
The reception of advice related to DF (More choices were		
available)		
- From public health volunteers (PHVs)	326	84.90
- From the public health officers working near	320	83.33
residence (not the medical team)		
- From the doctors, nurses, or medical team members	247	64.32
- From neighbors	152	39.58
- From the relatives receiving the advice from doctors	82	21.35
- Others (Specify)	29	7.55
- Not receiving any advice from anyone	3	0.78
Sources of knowledge about DF		
- Television	337	87.76
- Doctors, nurses, public health officers	315	82.03
- PHVs	309	80.47
- Radio	177	46.09
- Community leaders	119	30.99
- Newspaper	103	26.82
- Village News Center	78	20.31
- Others such as neighbors	20	5.21
People participating in the prevention of DF		
- PHVs	304	79.17
- Family members	282	73.44
- Doctors, nurses, public health officers	228	59.38
- Neighbors	169	44.01
- Community leaders	114	29.69
- Others	4	1.04

Table 4.2: Factors related to the prevention of DF

## Part 2: Factors related to the caretakers providing care for DF patients

#### 2.1 Knowledge about DF

Concerning the factors related to the caretakers providing care for DF patients, the levels of knowledge about DF could be ranged as follows: most caretakers had the knowledge about DF at a high level (8 - 10 points, 84.90%) and at a medium level (6 - 7 points, 15.10%). The average score was 8.91, while the maximum score was 10 and the minimum score was 6, as illustrated in Table 4.3.

Table 4.3: Number and percentage of levels of knowledge about DF

Knowledge Levels	Number	Percentage
Knowledge at a high level, 80-100% of score	326	84.90
(8 – 10 points)		
Knowledge at a medium level, 60-79 % of score	58	15.10
(6 – 7 points)		
Total	384	100.00

Min = 6; Max = 10; Mean = 8.91; S.D. = 1.24

When analyzing the knowledge of the caretakers, 100% of the caretakers had the knowledge that the *Aedes aegypti* mosquito was the vector of DF, 97.40% had the knowledge about the infection of DF, whereas 74.22% knew that the mosquitoes usually bit people in the daytime, as shown in Table 4.4.

 Table 4.4:
 Number and percentage of caretakers correctly answering the questions on DF

	Questions	Number	Percentage	Mean	S.D.
1.	The Aedes aegypti mosquito is the vector	384	100.00	1.00	0.00
	of DF.				
2.	The Aedes aegypti mosquito usually bites	285	74.22	0.74	0.44
	the patients in the daytime.				
3.	DF can spread when the peoples are bitten	374	97.40	0.97	0.16
	by the Aedes aegypti mosquito having DF				
	agent.				
4.	Children have the most opportunity to be	350	91.15	0.91	0.28
	infected by DF.				
5.	DF patients will have a high fever, which	316	82.29	0.82	0.38
	cannot be easily reduced by taking				
	medicines or applying tepid sponge.				
6.	Antipyretic drug which should not be given	336	87.50	0.88	0.33
	to DF patients is Aspirin.				
7.	To prevent the growth of Aedes aegypti	346	90.10	0.90	0.30
	mosquito, the mosquito breeding sources				
	should be got rid of every seven days.				
8.	DF patients should be prevented from	340	88.54	0.89	0.32
	being bitten by the Aedes aegypti mosquito				
	because the mosquito is the vector of DF.				
9.	DF patients should sleep under the bed net	338	88.02	0.88	0.33
	to protect them from the mosquito, and the				
	mosquito sources in the house and				
	surrounding areas should be eliminated.				
10	. To prevent DF, mosquito sources in the	354	92.19	0.92	0.27
	house and surrounding areas should be				
	regularly surveyed and people should sleep				
	under a bed net.				

### 2.2 Perception of susceptibility and severity of DF

As regards the factors related to the caretakers providing care for DF patients, the perception of susceptibility and severity of DF could be ranged as follows: most caretakers had the perception of susceptibility and severity of DF at a medium level (51-67 points, 73.44%) and at a high level (68 – 85 points, 26.56%). The average score was 63.96, while the maximum score was 80 and the minimum score was 51 as illustrated in Table 4.5.

Table 4.5: Number and percentage of perception of susceptibility and severity of DF

Perception of susceptibility and severity of DF	Number	Percentage
Perception at a high level, 80-100% of score	102	26.56
(68 - 85 points)		
Perception at a medium level, 60-79% of score	282	73.44
(51 – 67 points)		
Total	384	100.00

Min = 51; Max = 80; Mean = 63.96; S.D. = 5.92

When analyzing the statements related to the perception of susceptibility and severity of DF to determine the opinion levels, it was found that close to half, or 46.35%, of the caretakers strongly agreed that public health officers should spray ULV in the house and surrounding areas to prevent DF, 39.84% strongly agreed that the local public health officers should be informed if there was a DF patient, and 2.08% strongly agreed that caretakers were indifferent and negligent when finding the mosquito larvae.

As regards the statements related to the perception of susceptibility and severity of DF categorized by the disagreeing opinions, almost one-fourth, or 24.48%, of the caretakers strongly disagreed that the prevention and control of larvae should

be performed only in the house of the patients, another one-fourth, or 23.44%, strongly disagreed that the elimination of mosquitoes could provide prevention of DF, and only 0.26% strongly disagreed that public health officers should spray ULV in the house and surrounding areas as a prevention of DF as detailed in Table 4.6.

 Table 4.6:
 Number and percentage of caretakers correctly answering the questions

 related to the perception of susceptibility and severity of DF

		0	pinion Lev	vels			
Statements	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree	Mean	S.D.
When compared with	94	213	41	33	3	3.94	0.87
financial, drugs-related, or	(24.48)	(55.47)	(10.68)	(8.59)	(0.78)		
educational problems, the							
problem of DF is most							
important.							
When a member of a	107	244	18	11	4	4.14	0.72
family or community	(27.86)	(63.54)	(4.69)	(2.86)	(1.04)		
suffers from DF, all							
members in the family or							
community can be infected							
with DF as well.							
If there is a DF patient, the	153	192	33	4	2	4.28	0.71
local public health officer	(39.84)	(50.00)	(8.59)	(1.04)	(0.52)		
should be immediately							
informed.							
The role to eliminate the	49	105	46	148	36	3.04	1.24
mosquito larvae should be	(12.76)	(27.34)	(11.98)	(38.54)	(9.38)		
assigned to the PHVs.							
Getting rid of the mosquito	25	80	45	185	49	3.40	1.14
sources is very difficult.	(6.51)	(20.83)	(11.72)	(48.18)	(12.76)		
	When compared with financial, drugs-related, or educational problems, the problem of DF is most important. When a member of a family or community suffers from DF, all members in the family or community can be infected with DF as well. If there is a DF patient, the local public health officer should be immediately informed. The role to eliminate the mosquito larvae should be assigned to the PHVs. Getting rid of the mosquito	AgreeWhen compared with94financial, drugs-related, or(24.48)educational problems, the(24.48)problem of DF is mostimportant.When a member of a10°family or community(27.86)suffers from DF, all(27.86)members in the family or(27.86)community can be infected(39.84)with DF as well.153local public health officer(39.84)should be immediately(39.84)informed.112.76)assigned to the PHVs.25	StatementsStrongly AgreeWhen compared with94213financial, drugs-related, or educational problems, the problem of DF is most $(24.48)$ $(55.47)$ educational problems, the problem of DF is most107244family or community $(27.86)$ $(63.54)$ suffers from DF, all members in the family or community can be infected153192local public health officer informed.153192local public health officer $(39.84)$ $(50.00)$ should be immediately informed.105105The role to eliminate the assigned to the PHVs.49105Getting rid of the mosquito2580	StatementsStrongly AgreeAgreeUncertainWhen compared with9421341financial, drugs-related, or $(24.48)$ $(55.47)$ $(10.68)$ educational problems, the </td <td>AgreeAgreeUncertain DisagreeWhen compared with942134133financial, drugs-related, or<math>(24.48)</math><math>(55.47)</math><math>(10.68)</math><math>(8.59)</math>educational problems, theproblem of DF is mostimportant.When a member of a<math>10^{-7}</math><math>244</math>1811family or community<math>(27.86)</math><math>(63.54)</math><math>(4.69)</math><math>(2.86)</math>suffers from DF, allmembers in the family orcommunity<math>(27.86)</math><math>(63.54)</math><math>(4.69)</math><math>(2.86)</math>suffers from DF, allinfectedinfectedinfectedinfectedinfectedwith DF as well.153192334iocal public health officer<math>(39.84)</math><math>(50.00)</math><math>(8.59)</math><math>(1.04)</math>should be immediatelyinformed.InfectedinfectedinfectedinfectedThe role to eliminate the4910546148mosquito larvae should be<math>(12.76)</math><math>(27.34)</math><math>(11.98)</math><math>(38.54)</math>assigned to the PHVs.258045185</td> <td>Statements         Strongly Agree         Agree         Agree         Uncertain Disagree         Strongly Disagree           When compared with         94         213         41         33         3           financial, drugs-related, or educational problems, the problem of DF is most         (24.48)         (55.47)         (10.68)         (8.59)         (0.78)           When a member of a financial, drug or community         <math>10^{-7}</math>         244         18         11         4           family or community         (27.86)         (63.54)         (4.69)         (2.86)         (1.04)           suffers from DF, all members in the family or community can be infected         153         192         33         4         2           local public health officer         (39.84)         (50.00)         (8.59)         (1.04)         (0.52)           should be immediately informed.         49         105         46         148         36           mosquito larvae should be         (12.76)         (27.34)         (11.98)         (38.54)         (9.38)           assigned to the PHVs.         25         80         45         185         49</br></td> <td>Statements         Strongly Agree         Agree         Uncertain Disagree         Strongly Disagree         Mean Disagree           When compared with financial, drugs-related, or educational problems, the problem of DF is most         <math>(24.48)</math> <math>(55.47)</math> <math>(10.68)</math> <math>(8.59)</math> <math>(0.78)</math>           when a member of a financial, drugs - related, or educational problems, the         <math>10^ 244</math> <math>18</math> <math>11</math> <math>4</math> <math>4.14</math>           more of DF is most         <math>(27.86)</math> <math>(63.54)</math> <math>(4.69)</math> <math>(2.86)</math> <math>(1.04)</math> <math>4.14</math>           family or community         <math>(27.86)</math> <math>(63.54)</math> <math>(4.69)</math> <math>(2.86)</math> <math>(1.04)</math> <math>4.14</math>           family or community can be infected         <math>4.5</math> <math>4.5</math> <math>4.28</math> <math>4.28</math>           local public health officer         <math>(39.84)</math> <math>(50.00)</math> <math>(8.59)</math> <math>(1.04)</math> <math>(0.52)</math>           should be immediately         <math>(15.7)</math> <math>(27.34)</math> <math>(11.98)</math> <math>(38.54)</math> <math>(9.38)</math>           informed.         105         46         148         36         <math>3.04</math>           member of a columnate the         49         <math>105</math> <math>46</math> <math>148</math> <math>36</math> <math>3.04</math></td>	AgreeAgreeUncertain DisagreeWhen compared with942134133financial, drugs-related, or $(24.48)$ $(55.47)$ $(10.68)$ $(8.59)$ educational problems, theproblem of DF is mostimportant.When a member of a $10^{-7}$ $244$ 1811family or community $(27.86)$ $(63.54)$ $(4.69)$ $(2.86)$ suffers from DF, allmembers in the family orcommunity $(27.86)$ $(63.54)$ $(4.69)$ $(2.86)$ suffers from DF, allinfectedinfectedinfectedinfectedinfectedwith DF as well.153192334iocal public health officer $(39.84)$ $(50.00)$ $(8.59)$ $(1.04)$ should be immediatelyinformed.InfectedinfectedinfectedinfectedThe role to eliminate the4910546148mosquito larvae should be $(12.76)$ $(27.34)$ $(11.98)$ $(38.54)$ assigned to the PHVs.258045185	Statements         Strongly Agree         Agree         Agree         Uncertain Disagree         Strongly Disagree           When compared with         94         213         41         33         3           financial, drugs-related, or educational problems, the 	Statements         Strongly Agree         Agree         Uncertain Disagree         Strongly Disagree         Mean Disagree           When compared with financial, drugs-related, or educational problems, the problem of DF is most $(24.48)$ $(55.47)$ $(10.68)$ $(8.59)$ $(0.78)$ when a member of a financial, drugs - related, or educational problems, the $10^ 244$ $18$ $11$ $4$ $4.14$ more of DF is most $(27.86)$ $(63.54)$ $(4.69)$ $(2.86)$ $(1.04)$ $4.14$ family or community $(27.86)$ $(63.54)$ $(4.69)$ $(2.86)$ $(1.04)$ $4.14$ family or community can be infected $4.5$ $4.5$ $4.28$ $4.28$ local public health officer $(39.84)$ $(50.00)$ $(8.59)$ $(1.04)$ $(0.52)$ should be immediately $(15.7)$ $(27.34)$ $(11.98)$ $(38.54)$ $(9.38)$ informed.         105         46         148         36 $3.04$ member of a columnate the         49 $105$ $46$ $148$ $36$ $3.04$

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	Opinion Levels							
	Statements	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree	Mean	S.D.
6.	DF presents serious	94	223	32	21	14	3.94	0.93
	symptoms.	(24.48)	(58.07)	(8.33)	(5.47)	(3.65)		
7.	You are unconcerned when	8	42	70	186	78	3.74	0.97
	finding the mosquito larvae	(2.08)	(10.94)	(18.23)	(48.44)	(20.31)		
	in the house.							
8.	DF is an important	87	260	18	14	5	4.07	0.73
	infectious disease.	(22.66	(67.71	(4.69	(3.65	(1.30)		
9.	Getting rid of the Aedes	17	46	53	178	90	3.72	1.08
	aegypti mosquito cannot	(4.43)	(11.98)	(13.80)	(46.35)	(23.44)		
	prevent DF.							
10	. The best way to prevent DF	105	223	25	23	8	4.03	0.88
	is to protect DF patients	(27.34)	(58.07)	(6.51)	(5.99)	(2.08)		
	from being bitten by							
	mosquitoes.							
11	. You feel very ashamed	34	95	105	96	54	2.89	1.19
	when the villagers regard	(8.85)	(24.74)	(27.34)	(25.00)	(14.06)		
	your home as DF source.							
12	. You are willing to allow	178	194	7	4	1	4.42	0.61
	the public health officer to	(46.35)	(50.52)	(1.82)	(1.04)	(0.26)		
	spray ULV in your house							
	and surrounding areas as a							
	prevention of DF.							
13	. The public health officers	51	120	59	130	24	2.89	1.19
	should spray ULV to kill	(13.28)	(31.25)	(15.36)	(33.85)	(6.25)		
	mosquitoes rather than							
	advising you to get rid of							
	the larvae in your house.							

Table 4.6:(Cont.) Number and percentage of caretakers correctly answering the<br/>questions related to the perception of susceptibility and severity of DF

		<b>Opinion Levels</b>					
Statements	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree	Mean	S.D.
14. Having DF patient in your	90	211	41	33	9	3.89	0.94
house, you will be very	(23.44)	(54.95)	(10.68)	(8.59)	(2.34)		
worried and afraid that							
other family members will							
be infected.							
15. The Aedes aegypti	19	49	52	183	81	3.67	1.09
mosquito biting DF	(4.95)	(12.76)	(13.54)	(47.66)	(21.09)		
patients cannot spread DF							
disease to other people.							
16. People may die from DF	137	208	21	14	4	4,20	0.78
disease.	(35.68)	(54.17)	(5.47)	(3.65)	(1.04)		
17. The prevention and control	19	51	47	173	94	3.71	1.12
of the Aedes aegypti	(4.95)	(13.28)	(12.24)	(45.05)	(24.48)	(	
mosquito should be							
performed only in the							
houses having DF patients.							

 Table 4.6:
 (Cont.) Number and percentage of caretakers correctly answering the questions related to the perception of susceptibility and severity of DF

## Part 3: Factors related to the performance in the prevention of DF

With regard to the factors related to the performance in the prevention of DF, most caretakers had the performance to prevent DF at a high level (29-36 points, 51.30%), a medium level (22-28 points, 34.50%), and a low level (11.20%). The average score was 28.10, while the maximum score was 36 and the minimum score was 0, as shown in Table 4.7.

Performance Levels	Number (persons)	Percentage
Practices at a high level, 80-100% of score	197	51.30
(29 – 36 points)		
Practices at a medium level, 60-79 % of score	144	37.50
(22 – 28 points)		
Practices at a low level, 0-59% of score	43	11.20
(0-21 points)		
Total	384	100.00

Table 4.7: Number and percentage of performance levels in the prevention of DF

Min = 0; Max = 36; Mean = 28.10; S.D. = 5.64

When analyzing the statements regarding the performance to prevent DF, 79.92% of the caretakers usually protected the patients from being bitten by the mosquitoes, 69.79% got rid of the mosquito sources more frequently, and 27.86% surveyed the mosquito larvae every seven days.

Concerning the statements related to the prevention of DF, 24.22% of the caretakers did not close all jar covers in the house, 10.42% did not survey mosquito larvae every seven days, and 0.78% did not get rid of the mosquito sources when having DF patient at home, as depicted in Table 4.8.

Also, when asked if there were mosquito larvae in their house and surrounding areas, 52.86% of the caretakers answered "NO," while 47.17% responded "YES."

	Statements		Perform	Maan	e n		
	Statements	Always	Sometimes	Rarely	Never	_ Mean	S.D.
1.	When having a DF patient	187	173	19	5	2.41	0.65
	in your house, you try to	(48.70)	(45.05)	(4.95)	(1.30)		
	find the mosquito sources						
	in your house.						
2.	When finding the mosquito	252	111 .	15	6	2.59	0.64
	larvae, you get rid of them	(65.63)	(28.91)	(3.91)	(1.56)		
	immediately.						
3.	To protect the patient, you	224	114	16	30	2.39	0.89
	make him/her sleep under	(58.33)	(29.69)	(4.17)	(7.81)		
	the bed net.						
4.	You clean your house	201	167	13	3	2.47	0.60
	carefully and thoroughly to	(52.34)	(43.49)	(3.39)	(0.78)		
	get rid of the mosquito						
	sources.						
5.	Your family members and	162	183	35	4	2.31	0.68
	you get rid of the mosquito	(42.19)	(47.66)	(9.11)	(1.04)		
	sources in the house and						
	surrounding areas together.						
6.	When having a DF patient	268	106	7	3	2.66	0.55
	in your house, you get rid	(69.79)	(27.60)	(1.82)	(0.78)		
	of the mosquito sources						
	more frequently.						
7.	When having a DF patient	280	96	4	4	2.70	0.54
	in your house, you	(72.92)	(25.00)	(1.04)	(1.04)		
	particularly try to protect						
	the patients from being						
	bitten by the mosquitoes.						

Table 4.8: Number and percentage of performance to prevent DF

Statements		Perform	nance		Mean	S.D.
Statements	Always	Sometimes	Rarely	Never	wrean	5.D.
8. To avoid the mosquitoes,	173	152	44	15	2.26	0.81
you use the mosquito repellent or spray.	(45.05)	(39.58)	(11.46)	(3.91)		
9. In the normal period, you	107	187	50	40	1.94	0.91
try to find the mosquito larvae every seven days.	(27.86)	(48.70)	(13.02)	(10.42)	¥.)	
10. You close all jar covers in	150	111	30	93	1.83	1.19
the house.	(39.06)	(28.91)	(7.81)	(24.22)		
11. You turn all coconut shells,	140	187	41	16	2.17	0.78
used tires, and other mosquito sources in the surrounding of the house upside down.	(36.46)	(48.70)	(10.68)	(4.17)		
	174	183	21	6	2.37	0.66
recovered, you still get rid of the mosquito larvae in the house.	(45.31)	(47.66)	(5.47)	(1.56)		

Table 4.8: (Cont.) Number and percentage of performance to prevent DF

## Part 4: The evaluation of results regarding the performance to prevent DF

In this study, data regarding the performance to prevent DF were also gathered by means of observations conducted by the research assistants. Based on the observations, 40.89% of the caretakers used abate sand, 38.02% turned the coconut shells upside down, and 34.64% close all jar covers in the house to get rid of the mosquito sources. However, 21.09% of the caretakers did not close the jar covers, 13.28% did not use abate sand, and 7.55% did not turn the coconut shells upside down to deal with mosquito sources, as detailed in Table 4.9.

When surveying mosquito larvae in the houses of DF patients via observation, it was discovered that 62.24% of the patients' houses had mosquito larvae, while 37.76% did not.

Besides, the interviews conducted to further gather data on the prevention of DF indicated that 63.54% (244 persons) of the patients were bitten by the mosquitoes during their recovery period, while 36.46% (140 persons) did not. In addition, 80.47% of the patients (309 persons) avoided being bitten by the mosquitoes, whereas 19.53% (75 persons) did not.

The interview data also showed that the patients and their family used various methods to avoid being bitten by the mosquitoes. For example, 69.01% of them (265 persons) slept under a bed net, 32.55% (125 persons) used the traditional mosquito repellent, 23.18% (89 persons) sprayed the mosquito repellent, and 3.91% (15 persons) prevented mosquito bites by using an ointment. Moreover, some used smoke to chase the mosquitoes in the house away.

The findings also revealed that 42.79% (165 persons) of the caretakers who protected the patients from being bitten by the mosquitoes were housewives while 42.97% (64 persons) were the children or other relatives living with the patients such as father, uncle, aunt, etc.

According to the study findings, the family of the patients used several methods to get rid of the mosquito larvae in the house and surrounding areas. That is, 67.19% (258 persons) turned the coconut shells upside down, 45.84% (176 persons)

used the abate sand, 36.46% (140 persons) turned unused containers upside down, 25.52% (98 persons) put salt in ant trace water containers, 17.71% (68 persons) cleaned their houses thoroughly, 14.06% (54 persons) changed water in the ant trace containers regularly, 10.94% (42 persons) changed water in vases and flower pots, 9.11% (35 persons) kept the Siamese fighting fish, and 4.95% (19 persons) filled up a hole on the ground with soil or sand.

When it came to the relationship between the caretakers who participated in this study and DF patients, the findings showed that the family members of DF patients were the mother (55.47%, 213 persons), father (46.35%, 178 persons), or child (24.48%, 94 persons) of the patients. On the other hand, the caretakers who were not family members included public health officers (36.98%, 142 persons). neighbors (35.42°, 136 persons), PHVs (35.16%, 135 persons), members of Tambon administration organization (TAO) (24.22%, 93 persons), and community leaders (14.06%, 54 persons).

Regarding the activities performed to prevent DF in the family, 29.16% (112 persons) surveyed the mosquito larvae every seven days, 24.29% (93 persons) surveyed the mosquito larvae both in the house and surrounding areas, 21.88% (84 persons) put salt in the water kept in a container, 16.67% (64 persons) got rid of the mosquito larvae, and 15.36% (59 persons) burned the garbage.

In terms of the activities performed to prevent DF in the community, 51.56% (198 persons) surveyed the mosquito larvae together with public health officers, 34.38% (132 persons) sprayed ULV, 29.43% (113 persons) campaigned on the elimination of mosquito larvae in the village, 22.39% (86 persons) surveyed the mosquito larvae with the TAO, 21.35% (82 persons) obtained the knowledge about

DF from PHVs, 16.67% (64 persons) got rid of the wasted containers and mosquito larvae concurrently, and 14.97% (59 persons) obtained the knowledge about DF from public health officers.

			Perfor	mance	•		
	<b>Observation Points</b>	Every time	Some times	Rarely	Never	Mean	S.D.
1.	The patients sleep under	136	168	32	48	2.02	0.97
	the bed net or use any	(35.42)	(43.75)	(8.33)	(12.50)		
	method to protect						
	themselves from being						
	bitten by mosquitoes.						
2.	Abate sand is used in the	157	128	48	51	2.02	1.03
	house of patients to get	(40.89)	(33.33)	(12.50)	(13.28)		
	rid of the mosquito						
	sources.						
3.	All coconut shells are	146	150	59	29	2.08	0.91
	turned upside down in the	(38.02)	(39.06)	(15.36)	(7.55)		
	house of patients to get						
	rid of the mosquito						
	sources.						
4.	All jar covers in the house	133	115	55	81	1.78	1.14
	of patients are closed to	(34.64)	(29.95)	(14.32)	(21.09)		
	get rid of the mosquito						
	sources.						
5.	Elimination of mosquito	133	116	64	71	1.81	1.10
	breeding sources is done	(34.64)	(30.21)	(16.67)	(18.49)		
	in the house of the						
	patients by other methods.						

Table 4.9: Performance to prevent DF as obtained by means of observation

## Part 5: Relationship between personal data and factors related to the prevention of DF of the caretakers

5.1 Relationship between personal data and factors related to the knowledge on DF of the caretakers

As for the relationship between personal data and factors related to the knowledge on DF, the findings showed that age was related to the knowledge level with statistical significance at the 0.05 level (P = 0.041), meaning that 93.33% of the caretakers who were younger than 20 years old had a higher level of knowledge than the caretakers aged over 60 years (90.91%).

Furthermore, the findings indicated that there was no relationship between gender, religion, occupation, education, income, number of caretakers providing care for DF patients, relationship between the patients and the caretakers. having DF patients, experience on care of DF patients, understanding of patients' DF status, and knowledge. In addition, the relationship between marital status and knowledge level could not be determined as described in Table 4.10.

Personal Data	Knowled	lge Levels	Total	X <sup>2</sup>	P-Value	
Personal Data _	High	Medium	_ 10(a)	л	r-value	
Gender						
- Male	94	16	110	0.038	0.846	
	(85.45)	(14.55)	(100.00)			
- Female	232	42	274			
	(84.67)	(15.33)	(100.00)			
Religion						
- Buddhism	286	48	334	1.075	0.300	
	(85.63)	(14.37)	(100.00)			
- Islam	40	10	50			
	(80.00)	(20.00)	(100.00)			
Age						
- Younger than 20	42	3	45	11.55	0.041	
years old	(93.33)	(6.67)	(100.00)	2		
- 20 – 29 years old	50	10	60			
	(83.33)	(16.67)	(100.00)			
- 30 - 39 years old	110	13	123			
	(89.43)	(10.57)	(100.00)			
- 40 – 49 years old	24	99	123			
	(19.51)	(80.49)	(100.00)			
- 50 - 59 years old	15	7	22			
	(68.18)	(31.82)	(100.00)			
- Older than 60 years	10	1	11			
old	(90.91)	(9.09)	(100.00)			

Table 4.10: Relationship between personal data and factors related to the knowledge on DF

Personal Data	Knowled	ge Levels	Total	X <sup>2</sup>	P-Value		
Personal Data _	High	Medium	_ Iotai	л	r-value		
Occupation							
- Farmer, gardener,	206	41	247	2.403	0.662		
agriculturist	(83.40)	(16.60)	(100.00)				
- Merchant	21	4	25				
	(84.00)	(16.00)	(100.00)				
- Government officer	6	-	6				
or public enterprise	(100.00)		(100.00)				
employee							
- Employee	43	7	50				
	(86.00)	(14.00)	(100.00)				
- Others	50	6	56				
	(89.29)	(10.71)	(100.00)				
Education							
- No formal	7	2	9	4.97	0.29		
education	(77.78)	(22.22)	(100.00)				
- Primary education	218	46	264				
	(82.58)	(17.42)	(100.00)				
- Secondary	80	7	87				
education/	(91.95)	(8.05)	(100.00)				
Vocational							
certificate							
- Diploma	14	2	16				
	(87.50)	(12.50)	(100.00)				
- Bachelor's degree	7	1	8				
	(87.50)	(12.50)	(100.00)				

 Table 4.10:
 (Cont.) Relationship between personal data and factors related to the knowledge on DF

Demond Data	Knowled	ge Levels	Total	X <sup>2</sup>	P-Value
Personal Data	High	Medium	_ Totai	л	r-value
Monthly income					
- Less than 5,000	52	11	63	0.49	0.92
Baht	(82.54)	(17.46)	(100.00)		
- 5,000 - 10,000	210	35	245	1	
Baht	(85.71)	(14.29)	(100.00)		
- 10,001 - 15,000	55	10	65		
Baht	(84.62)	(15.38)	(100.00)		
- More than 15,000	9	2	11		
Baht	(81.82)	(18.18)	(100.00)		
Marital Status					
- Single	62	2	64	17.90	0.00
	(96.88)	(3.13)	(100.00)		
- Married	254	50	304		
	(83.55)	(16.45)	(100.00)		
- Widowed	7	6	13		
	(53.85)	(46.15)	(100.00)		
- Divorced/	3	Ξ.	3		
Separated	(100.00)		(100.00)		
Number of Caretakers P	roviding Care	for DF Patient	S		
- 1 – 2 persons	290	53	343	0.30	0.856
	(84.55)	(15.45)	(100.00)		
- 3 – 4 persons	29	4	33		
	(87.88)	(12.12)	(100.00)		
- 5 – 6 persons	7	1	8		
	(87.50)	(12.50)	(100.00)		

Table 4.10: (Cont.) Relationship between personal data and factors related to the knowledge on DF

Personal Data	Knowled	ge Levels	Total	<b>X</b> <sup>2</sup>	P-Value	
rersonal Data	High	Medium	_ 10(a)	л	I - v aiut	
Relationship between the	e patient and th	ne caretaker				
- Child	129	24	153	1.40	0.71	
	(84.31)	(15.69)	(100.00)			
- Father and mother	102	14	116			
	(87.93)	(12.07)	(100.00)			
- Brother, sister,	26	5	31			
aunt, uncle,	(83.87)	(16.13)	(100.00)			
grandfather,						
grandmother						
- Others	69	15	84			
	(82.14)	(17.86)	(100.00)			
Experience with DF of fa	amily member	s in the past fi	ve years			
- No	305	55	360	0.14	0.71	
	(84.72)	(15.28)	(100.00)			
- Yes	21	3	24			
	(87.50)	(12.50)	(100.00)			
Experience taking care o	of DF patients					
- No	293	53	346	0.13	0.72	
	(84.68)	(15.32)	(100.00)			
- Yes	33	5	38			
	(86.84)	(13.16)	(100.00)			
Understanding of the pat	tients' DF statu	15				
- No	62	17	79	3.19	0.07	
	(78.48)	(21.52)	(100.00)			
- Yes	264	41	305			
	(86.56)	(13.44)	(100.00)			

Table 4.10: (Cont.) Relationship between personal data and factors related to the knowledge on DF

# 5.2 Relationship between personal data and factors related to the perception of susceptibility and severity of DF

As regards the relationship between personal data and factors related to the perception of susceptibility and severity of DF, the findings showed that education was related to the perception of susceptibility and severity of DF with statistical significance at the 0.05 level (P=0.001). This meant that 66.67% of the caretakers, who had no formal education, had the perception of susceptibility and severity of DF at a medium level when compared with the caretakers obtaining a bachelor's degree (87.50%).

Furthermore, the relationship between the patients and the caretakers was found to be related to the perception of susceptibility and severity of DF with statistical significance at the 0.005 level (P = 0.029). In other words, the caretakers who were fathers and mothers had the perception of susceptibility and severity of DF at a high level (34.48%) when compared with others (15.48%).

On the other hand, the study findings indicated that there was no relationship between gender, religion, age, occupation, marital status, number of caretakers providing care for DF patients, history of having DF patients in the family in the past five years, experience with provision of care for DF patients, and understanding of patients' DF status and perception of susceptibility and severity of DF. In addition, the relationship among the number of relations, the order of children of patients, and perception of susceptibility and severity of DF could not be found as described in Table 4.11.

	Levels of 1	Perception of				
Personal Data	25 A	ty and Severity f DF	Total	X <sup>2</sup>	P-Value	
	High	Medium	-1			
Gender		(4)				
- Male	29	81	110	0.003	0.274	
	(26.36)	(73.64)	(100.00)			
- Female	73	201	274			
	(26.64)	(73.36)	(100.00)			
Religion						
- Buddhism	84	250	334	2.625	0.105	
	(25.15)	(74.85)	(100.00)			
- Islam	18	32	50			
	(36.00)	(64.00)	(100.00)			
Age						
- Younger than 20	I 1	34	45	3.461	0.629	
years old	(24.44)	(75.56)	(100.00)			
- 20 - 29 years old	18	42	60			
	(30.00)	(70.00)	(100.00)			
- 30 – 39 years old	36	87	123			
	(29.27)	(70.73)	(100.00)			
- 40 - 49 years old	32	91	123			
	(26.02)	(73.98)	(100.00)			
- 50 – 59 years old	4	18	22			
	(18.18)	(81.82)	(100.00)			
- Older than 60	1	10	11			
years old	(9.09)	(90.91)	(100.00)			

 Table 4.11:
 Relationship between personal data and factors related to the perception of susceptibility and severity of DF

	Levels of l	Perception of				
Personal Data		y and Severity f DF	Total	X <sup>2</sup>	P-Value	
	High	Medium				
Occupation						
- Farmer, gardener,	68	179	247	3.613	0.461	
agriculturist	(27.53)	(72.47)	(100.00)			
- Merchant	8	17	25			
	(32.00)	(68.00)	(100.00)			
- Government	3	3	6			
officer, public	(50.00)	(50.00)	(100.00)			
enterprise employee						
- Employee	10	40	50			
1	(20.00)	(80.00)	(100.00)			
- Others	13	43	56			
	(23.21)	(76.79)	(100.00)			
Education						
- No formal	3	6	9	18.503	0.001	
education	(33.33)	(66.67)	(100.00)			
- Primary education	60	204	264			
na international and the second s	(22.73)	(77.27)	(100.00)			
- Secondary	27	60	87			
education /	(31.03)	(68.97)	(100.00)			
Vocational	(R R)	65 15				
certificate						
- Diploma	11	5	16			
And an	(68.75)	(31.25)	(100.00)			
- Bachelor's degree	1	7	8			
	(12.50)	(87.50)	(100.00)			
		18 15	10 A			

 Table 4.11: (Cont.) Relationship between personal data and factors related to the perception of susceptibility and severity of DF

	Levels of ]	Perception of			
Personal Data	susceptibilit	ty and Severity	Total	$X^2$	P-Value
r ersonar Data	0	f DF	Total	Λ	1-value
	High	Medium	•);		
Monthly income					
- Less than 5,000	16	47	63	4.397	0.222
Baht	(25.40)	(74.60)	(100.00)		
- 5,000 - 10,000	59	186	245		
Baht	(24.08)	(75.92)	(100.00)		
- 10,001 - 15,000	24	41	65		
Baht	(36.92)	(63.08)	(100.00)		
- More than 15,000	3	8	11		
Baht	(27.27)	(72.73)	(100.00)		
Marital Status					
- Single	19	45	64	0.524	0.914
	(29.69)	(70.31)	(100.00)		
- Married	79	225	304		
	(25.99)	(74.01)	(100.00)		
- Widowed	3	10	13		
	(23.08)	(76.92)	(100.00)		
- Divorced/	1	2	3		
Separated	(33.33)	(66.67)	(100.00)		
Number of Caretakers	Providing Care	e for DF Patients			
- 1 – 2 persons	90	253	343	2.362	0.307
	(26.24)	(73.76)	(100.00)		
- 3 – 4 persons	8	25	33		
	(24.24)	(75.76)	(100.00)		
- 5 – 6 persons	4	4	8		
	(50.00)	(50.00)	(100.00)		

 Table 4.11: (Cont.) Relationship between personal data and factors related to the perception of susceptibility and severity of DF

	Levels of I	Perception of				
Personal Data	=	y and Severity f DF	Total	$X^2$	P-Value	
	High	Medium	-			
Relationship between	patient and care	etaker				
- Child	41	112	153	9.036	0.029	
	(26.80)	(73.20)	(100.00)			
- Father or mother	40	76	116			
	(34.48)	(65.52)	(100.00)			
- Brother, sister,	8	23	31			
aunt, uncle,	(25.81)	(74.19)	(100.00)			
grandfather, or grandmother						
- Others	13	71	84			
oulers	(15.48)	(84.52)	(100.00)			
Experience with DF o						
- No	94	266	360	0.602	0.438	
	(26.11)	(73.89)	(100.00)			
- Yes	8	16	24			
	(33.33)	(66.67)	(100.00)			
Experience with provi	ision of care for	DF patients				
- No	91	255	346	0.123	0.726	
	(26.30)	(73.70)	(100.00)			
- Yes	11	27	38			
	(28.95)	(71.05)	(100.00)			
Understanding of the	patients' DF sta	tus				
- No	16	63	79	2.030	0.154	
	(20.25)	(79.75)	(100.00)			
- Yes	86	219	305			
	(28.20)	(71.80)	(100.00)			

Table 4.11:	(Cont.) Relationship	between	personal	data	and	factors	related	to	the	
perception of susceptibility and severity of DF										

# 5.3 Relationship between personal data and factors related to the performance to prevent DF

Concerning the relationship between personal data and factors related to the performance to prevent DF, the study findings revealed that age was related to the factors related to the prevention of DF with statistical significance at the 0.05 level (P=0.043).

Also, income was related to the factors related to the prevention of DF with statistical significance at the 0.05 level (P=0.018).

However, there was no relationship between gender, religion, occupation, marital status, number of caretakers providing care for DF patients, relationship between patients and caretakers, history of having DF patients in the previous five years, experience with provision of care for DF patients, and understanding of the patients' DF status, and performance in the prevention of DF. Also, the relationship between personal data and the performance in the prevention of DF could not be found, as detailed in Table 4.12.

Personal Data	Performance Levels			Total	<b>X</b> <sup>2</sup>	P-Value
	High	Medium	Low	Total	л	r-value
Gender						
- Male	55	42	13	110	0.123	0.940
	(50.00)	(38.18)	(11.82)	(100.00)		
- Female	142	102	30	274		ж.
	(51.82)	(37.23)	(10.95)	(100.00)		
Religion						
- Buddhism	165	128	41	334	4.930	0.085
	(49.40)	(38.32)	(12.28)	(100.00)		
- Islam	32	16	2	50		
	(64.00)	(32.00)	(4.00)	(100.00)		
Age						
- Younger than 20	16	19	10	45	18.82	0.028
years old	(35.56)	(42.22)	(22.22)	(100.00)	7	
- 20 – 29 years old	26	24	10	60		
	(43.33)	(40.00)	(16.67)	(100.00)		
- 30 - 39 years old	63	48	12	123		
	(51.22)	(39.02)	(9.76)	(100.00)		
- 40 - 49 years old	76	38	9	123		
	(61.79)	(30.89)	(7.32)	(100.00)		
- Older than 50 years	16	15	2	33	17.18	
old	(48.50)	(45.50)	(6.00)	(100.00)	4	

Table 4.12: Relationship between personal data and factors related to the performance to prevent DF

Personal Data	Performance Levels			Total	X <sup>2</sup>	P-Value
	High	Medium	Low	Total	А	r-value
Occupation						
- Farmer, gardener,	128	95	24	247	10.30	0.244
agriculturist	(51.82)	(38.46)	(9.72)	(100.00)	4	
- Merchant	14	6	5	25		
	(56.00)	(24.00)	(20.00)	(100.00)		
- Government officer,	3	3	<i></i> 2	6		
public enterprise employee	(50.00)	(50.00)		(100.00)		
- Employee	28	19	3	50		
	(56.00)	(38.00)	(6.00)	(100.00)		
- Others	24	21	11	56		
	(42.86	(37.50%	(19.64%)	(100.00)		
	%					
Education						
- No formal	3	5	1	9	8.740	0.365
education	(33.33)	(55.56)	(11.11)	(100.00)		
- Primary education	131	102	31	264		
	(49.62)	(38.64)	(11.74)	(100.00)		
- Secondary	45	33	9	87		
education/	(51.72)	(37.93)	(10.34)	(100.00)		
Vocational						
certificate						
- Diploma	11	4	1	16		
	(68.75)	(25.00)	(6.25)	(100.00)		
- Bachelor's degree	7		1	8		
	(87.50)		(12.50)	(100.00)		

 Table 4.12:
 (Cont.) Relationship between personal data and factors related to the performance to prevent DF

Personal Data	Performance Levels			Total	X <sup>2</sup>	D.Vh
	High	Medium	Low	10141	А	P-Value
Monthly income						
- Lower than 5,000	29	25	9	63	12.24	0.016
Baht	(46.03)	. (39.68)	(14.29)	(100.00)	5	
- 5,000 - 10,000	117	96	32	245		
Baht	(47.76)	(39.18)	(13.06)	(100.00)		
- More than 10,000	51	23	2	76		
Baht	(67.10)	(30.30)	(2.60)	(100.00)		
Marital Status						
- Single	26	25	13	64	9.719	0.137
	(40.63)	(39.06)	(20.31)	(100.00)		
- Married	164	112	28	304		
	(53.95)	(36.84)	(9.21)	(100.00)		
- Widowed	6	6	1	13		
	(46.15)	(46.15)	(7.69)	(100.00)		
- Divorced/	1	1	1	3		
Separated	(33.33)	(33.33)	(33.33)	(100.00)		
Number of Caretakers	Providing (	Care for DF	Patients			
- 1 – 2 persons	170	133	40	343	4.704	0.319
	(49.56)	(38.78)	(11.66)	(100.00)		
- 3 – 4 persons	22	8	3	33		
	(66.67)	(24.24)	(9.09)	(100.00)		
- 5 – 6 persons	5	3	-	8		
	(62.50)	(37.50)		(100.00)		

Table 4.12: (Cont.) Relationship between personal data and factors related to the performance to prevent DF

Dancon al Data	Performance Levels			T	X <sup>2</sup>	DVI	
Personal Data	High	Medium	Low	Total	А	P-Value	
Relationship between pa	tients and	caretakers					
- Child	73	57	23	153	7.031	0.318	
	(47.71)	(37.25)	(15.03)	(100.00)			
- Father or mother	68	39	9	116			
	(58.62)	(33.62)	(7.76)	(100.00)			
- Brother, sister, aunt,	17	11	3	31			
uncle, grandfather, or grandmother	(54.84)	(35.48)	(9.68)	(100.00)			
- Others	39	37	8	84			
	(46.43)		(9.52)	(100.00)			
History with DF of fami	ly membe	rs in the past	five				
years							
- No	187	134	39	360	1.266	0.531	
	(51.94)	(37.22)	(10.83)	(100.00)			
- Yes	10	10	-4	24			
	(41.67)	(41.67)	(16.67)	(100.00)			
Experience with provisi	on of care	for DF patie	nts				
- No	179	130	37	346	0.926	0.629	
	(51.73)	(37.57)	(10.69)	(100.00)			
- Yes	18	14	6	38			
	(47.37)	(36.84)	(15.79)	(100.00)			
Understanding of the pa	tients' DF	status					
- No	42	28	9	79	0.183	0.913	
	(53.16)	(35.44)	(11.39)	(100.00)			
- Yes	155	116	34	305			
	(50.82)	(38.03)	(11.15)	(100.00)			

 Table 4.12:
 (Cont.) Relationship between personal data and factors related to the performance to prevent DF

## 5.4 Relationship between factors related to DF knowledge and performance to prevent DF

According to the study findings, the level of knowledge about DF was related to the performance to prevent DF with statistical significance at the 0.05 level (P= 0.006). Put another way, the persons having a higher level of knowledge about DF could have better performance when compared with persons having a medium level of knowledge about DF, as detailed in Table 4.13.

 Table 4.13:
 Relationship between factors related to knowledge about DF and the performance to prevent DF

Knowledge	Per	formance Le	vels	Total	$X^2$	P-Value
Levels	High	Medium	Low			
High level	177	118	31	326	10,24	0.006
	(54.29)	(36.20)	(9.51)	(100.00)		
Medium level	20	26	12	58		
	(34.48)	(44.83)	(20.69)	(100.00)		
Total	197	144	43	384		
	(51.30)	(37.50)	(11.20)	(100.00)		

# 5.5 Relationship between factors related to the perception of susceptibility and severity of DF and performance to prevent DF

The perception of susceptibility and severity of DF was related to the performance to prevent DF with statistical significance at the 0.05 level (P = 0.001). This meant that persons having a higher level of perception of susceptibility and knowledge of DF could have better performance to prevent DF when compared with persons having a medium level of perception, as described in Table 4.14.

Perception of Susceptibility and Severity of DF	Performance Levels					
	High	Medium	Low	Total	X <sup>2</sup>	P-Value
High Level	68	26	8	102	13.13	0.001
	(66.67)	(25.49)	(7.84)	(100.00)		
Medium Level	129	118	35	282		
	(45.74)	(41.84)	(12.41)	(100.00)		
Total	197	144	43	384		
	(51.30)	(37.50)	(11.20)	(100.00)		

 Table 4.14:
 Relationship between factors related to the perception of susceptibility and severity of DF and the performance to prevent DF