

APPENDIX: A

Guideline for Empowering of Health Problem Solving Participation

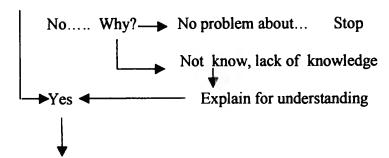
This appendix explains Sawetaseranee's ten steps ladder for empowering people participation in rural health development compared with PAR process (Look, Think, Act and Reflect).

Guideline for focus group discussion (FGD) to empower Health Problem

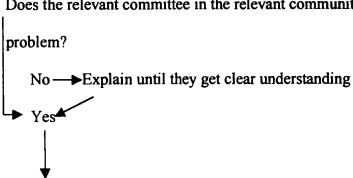
Solving Participation

LOOK

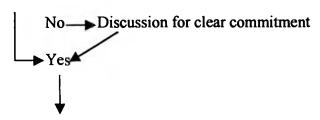
1. Is there a problem about.... in the village?



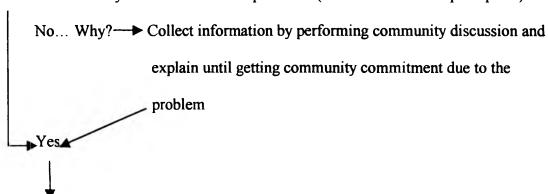
2. Does the relevant committee in the relevant community know the causes of the



3. Do they really think this is the problem?



4. Is the community concerned with the problem? (in the committee's perception)



5. Does the committee need to solve the problem? No... Why?___ Find out the reasons and identify the constraints, then support what they need, to motivate the participation in the problem solving among target groups (e.g. other relevant committees, family health leaders, under-5-year old children' parents) **THINK** 5.1 What are the causes of the problem? Community participation in finding out, by AIC technique 5.2 Are there any organizations/clubs can take responsibility to eliminate each of the causes? Community - Organization/Clubs Commitment 6. How strong are the village organizations/clubs? Do they need any support? Define constraints and weakness for support and development Are there any self-reliance activities of each community in the village? (Both governmental and non-governmental sections)

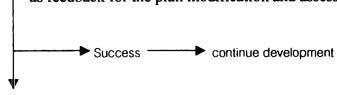
ACT

- 8. Set the operation plan of each organization/club by group discussion using system framework technique.
- 9. Implementation

REFLECT

10. Set monitoring plan to collect reflection information (e.g. limitations, constraints)

as feedback for the plan modification and assessment, Is it successful or a failure?



Failure return to step 1

APPENDIX: B

How to Get General Information of U-Tapao Village

Listed in this appendix are guidelines for group discussion among relevant community members on general information of the target. All outlines, checklist and questionnaire entries will help the researcher collect basic data related to what they need to study or plan for health education.

1. Guideline for group discussion among relevant community members on
general information of the U-Tapao (Mou 6) Village (Interviewed by
technical researchers).
-What is the village history?
-How many people are there in this village ?
-What are their occupation ?
-How far is the village from the town?
-How convenient is communication and transportation?
-How healthy are the villagers ? (Village's health status)
-Is there any problem that they need to solve?
-What is the priority of the problems they need to solve?
1.1 Out line of Evaluation Issue
-Are the goal and objectives of the study in conformity with the
needs identified by the village leaders?
NoWhy ?No problem indeed → Stop
YesDo they know the causes? What?
-Do they really think this is the problem ?
NoDiscussion for clear commitment with health information
support from village health personnel
YesDiscussion for clear commitment with heath information

support from village health personnel

-Do they think the community is concerned about the problem?

1.2 Outline of Health Status and Health Service Information Needed for Explanation to Family Health Leaders.

- -Morbidity Rate of top-5 diseases of village
- -Why has acute diarrhea been ranked as the first priority?
- -What is the incidence rate of acute diarrhea in under-5-year age group?
- -Why do health personnel select the under-5-year age group as a target group for Surveillance

1.3 Outline for Attitude-affected Information

- -How many villagers are getting acute diarrhea in this village?
- -How do you feel? When someone says "We don't dare to eat anything in this village, because whenever I eat something purchased from here, I get diarrhea"
- -What would you think, if those words were referred to your house?
- -Do you think acute diarrhea can be transmitted from one to another? Why?
- -Do you know the causes of acute diarrhea?
- -Can you be responsible for reducing or diminishing each of those causes?

- -Would you need any support, both from governmental and non-governmental sources to prevent your family from getting acute diarrhea?
- -What are the health behaviors that can prevent you from getting acute diarrhea?
- -What are behaviors of self-care that can protect you from dehydration danger?
- -Do you think acute diarrhea is a dangerous disease for under-5-year age group? Why?

1.4 Outline of information needed for strategic planning

-Is there a committee in the village that is responsible for disease control?

No.....Why? Discussion on setting or determining of disease control committee until getting clear commitment and then making the decision to set the disease control responsible committee.

-Does the committee need to solve acute diarrhea problem

Yes

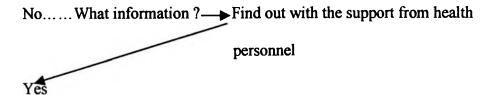
Yes

No..... Why? Find out the reasons and identify the constraints, then support what they need to motivate problem solving participation.

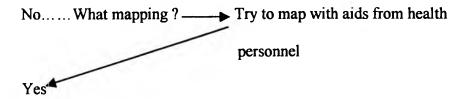
-Is there any information needed for acute diarrhea problem solving?

*Village incidence rate of acute diarrhea in under-5-year age group

- *Number of under-5-year age group in this village
- *Number of under-5-year age group getting acute diarrhea
- *Number of village health volunteer
- *Number of family health leaders
- *Data on housing and food sanitation



- -Can the committee prepare the mapping of:
- *Responsible village health volunteers and houses
- *Family health leaders with number of family members and their houses
- *Number of under-5-year children and their houses (separately show both those who are healthy and those getting acute diarrhea)



2. Checklist for Observational Data Collection on Housing and Food Sanitation in the Village (Survey report by village researchers)

Housing and food Sanitation Checklist

	Name of interviewer		
	Number of houses for which respond	onsible	
	Mark ✓or × in □ if the item is	n checklist is true or	false respectively, after
	interviewing and observation.		
. =		Family	House Address
	Checklist	Health Leader	ATOUSO TAGUTOSS
		Name	
		Name	
1.	Using only the registered flavoring		
	and coloring agents		-
2.	Having food cabinet or food cover		
3.	Having and using sanitary cooking		
	and eating utensils		
4.	Three steps of utensils washing		
5 .	Cleanness and tidiness of kitchen		
6.	Having garbage bin with cover in		
	kitchen and housing area		
7.	Having clean drinking water		
8.	Sanitary consuming water		
9.	Having sanitary latrine		
10.	Having proper garbage disposal		
11.	Having proper waste water		
12.	disposal Using separate spoons for		
	taking the dish up		

3.	Qı	ıestionna	ire for I	nterviewing al	out Acute D	Piarrhea Warning Sign
	Pe	rception	(Villa	ge researcher =	Interviewer,	Family health leader =
	In	terviewe	e)			
				cute Diarrhea		
Respon	nder	nt Name.				
Sex		1. Mal	le		Age	Year
		2. Fen	nale			
						1. Sufficient
Occup	atio	n		Inco	ome / month	
						2. Insufficient
Educa	tion	level				
		1. No li	teracy			
		2. Prath	nom 1 –	4		
		3. Prath	nom 5 –	6/7		
[4. Math	nayom 1	- 3		
		5. Math	nayom 4	-6/3 years of	vocational tra	aining
		6. Five	year of vo	ocational trainin	g / else	
Villag	ge na	ıme	Tan	ıbon		
Amph	iur .					

Record ✓	ĺ	n		that is right	(In	your opinion)
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	Warning sign symptom of three		
	Loose stools	Watery stools	Loose stools with blood
	☐ 1. One time / da	y	
	☐ 2. Two times / d	lay 🗆	
	☐ 3. More than 2		
	☐ 4. Three times /	day 🗆	
	☐ 5. More than 3		
	☐ 6. Four times / 6	iay 🗆	
	☐ 7. More than 4		
2.	Which type of acute diarrhea fr	rightens you?	
	☐ 1. Liquid stool		
	☐ 2. Watery stool		
	☐ 3. Bloody muco	ous stool	
3.	Do you know that a dangerou	s symptom of ac	cute diarrhea is body dehydration?
	□ 1. Yes □ 2.	. No	
4.	Do you know three times or m	ore of liquid stoo	l, one time of watery stool or one
ti	me of bloody mucous stool may	lead to the body d	lehydration?
	□ 1. Yes □ 2	. No	

5.	Do you know the three levels of denydration?
	□ 1. Yes □ 2. No
6.	Do you know warning sign of each level of dehydration?
	□ 1. Yes □ 2. No
7.	Do you know drinking of oral rehydration salt (ORS) solution will prevent body
fro	n dehydration?
	□ 1. Yes □ 2. No
8.	Do you know personal hygiene and consumption behavior are the most importan
fa	ors related to acute diarrhea?
	□ 1. Yes □ 2. No

3

APPENDIX: C

How to Get Villagers Perception about Acute Diarrhea Transmission Cycle

The questionnaire and guideline in this appendix will be used for making a dialogue about the acute diarrhea transmission cycle and risk group (under-5-year age group). These will be used to educate people about germ theory, transmission cycle of the germ that causes acute diarrhea and about the human being as an important factor in the transmission cycle.

1. Questionnaire for interviewing about perception of transmission cycle of acute diarrhea

(Village researcher = Interviewer, Family health leader = Interviewee)

Questionnaire for Transmission Cycle Perception of Acute Diarrhea

Nam	e of Researcher					
				••••••		
Num	ber of houses for which responsible		•••••	••••••		
Mark	Mark ✓ in □ Yes or □ No, according to respondent's opinion					
		Family	Пошто			
	Checklist	Health Leader	House A	Address		
		Name				
		- \				
1.	Do you agree with the words "The		☐ Yes	□ No		
	infectious agents or germs that cause		-			
	diarrhea, come from dirt and stools					
	and are usually spread by the fecal-					
	oral route, which includes the					
	ingestion of fecally contaminated					
	water and food, and direct contact					
	with injected feces"					
2.	Do the following specific behaviors		□ Yes			
	promote the transmission of the germs					
	that cause diarrhea?					

Checklist	Family Health Leader	House A	Address
Checkist	Name		
2.1 Failing to breast-feed exclusively		☐ Yes	□ No
for the first 4 – 6 mouths of life		l les	□ NO
2.2 Using infant feeding bottles			□ N-
2.3 Store cooked food at room		☐ Yes	
temperature		☐ Yes	
2.4 Using drinking- water			
contaminated by uncovered		☐ Yes	
storage container or			
contaminated hand coming			
into contact with the water			
while collecting it from the			
container			
2.5 Failing to propare food			
Hygienically		☐ Yes	
2.6 Failing to wash hands after			
defecation, after disposing of		☐ Yes	
feces or before handling food			
2.7 Failing to dispose of feces			
(including infant feces)		☐ Yes	
hygienically			
2.8 Improper garbage disposal		☐ Yes	□ No
2.9 Failing to prevent breeding of		☐ Yes	□ No
flies in latrines and garbage			
dumps			
2.10 Failing to protect food		□ Yes	□ No
fom flies			_ 140

2. Guideline for informal focus interview and observation about perception of transmission cycle of acute diarrhea

(Technical researcher = Interviewer, Selected family health leader = Interviewer)

- 1. Do you agree with the words "The infections agents or germs that cause diarrhea, are usually spread by the fecal-oral route, which includes ingestion of fecally contaminated water or food and direct contact with infected feces"? Why?
- 2. Do you know acute diarrhea would be transmitted from you to your children if you are unaware of hand washing with soap and water after defecation, after feces disposal (including infant feces) or before handling food?
- 3. Do you have any infant under-5 years old?
- 4. Do you feed them with breast feeding for the first 4-6 months?
- 5. Do you know, if breast feeding is not possible, cow's milk or milk formula should be given with a cup and a spoon? How do you feel with this suggestion?

 Do you know the reasons for this? What?
- 6. Do you agree with the conclusion "A number of specific behaviors promote the transmission of enteric pathogens and thus increase the risk of diarrhea"?
- 7. Do you use feeding bottles?
- 8. Do you think feeding bottles easily become contaminated by fecal bacteria and are difficult to clean? When milk is added to an unclean bottle it becomes contaminated; if it is not consumed immediately, bacterial growth will occurs.
- 9. Have you ever stored cooked food at room temperature? Is it easily contaminated or rotten? Why?
- 10. Do you store the cleanest possible drinking water in covered storage containers?

 If there is any doubt as to the purity of the water what should you do?

How to Get Villager Perception about ORS

This appendix of questionnaire and guideline will help the researchers collect basic knowledge about O.R.S. of people, the constraints in using it and people's attitude for using it. These will be useful for health education planning.

1. Questionnaire for interviewing about ORS perception

(Village researcher = Interviewer, Family health leader = Interviewee)

Questionnaire about ORS Perception

Nam	e of village researcher			• • • • • • • • • • • • • • • • • • • •	
Num	Number of houses for which responsible				
Ansv	wer the questions in checklist				
	Checklist	Family Health Leader Name	House A	Address	
1.	Do you know O.R.S. and O.R.S.		☐ Yes		
	solution?		-		
2.	Is there any package in your house?		□ Yes		
3.	What kind of O.R.S. do you have?		☐ Yes	□ No	
4.	How did you receive it?		☐ Yes	□ No	
5.	Do you know the home-made formula		☐ Yes	□ No	
	of O.R.S. solution ?				
6.	Does the formula consist of: Clean water 750 ml. (approximately equal to volume of		☐ Yes	□ No	
	one large round bottle)				
	Sucrose 2 g. (two table spoonfuls)				
	Powdered salt 1.7 g. (half tea spoonful)?				

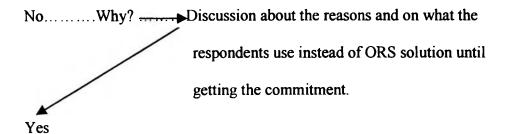
Checklist		Family Health Leader	House	Address
	Cheenist	Name		
		Tumo		
7.	Can you prepare it?		☐ Yes	□ No
8.	Is it difficult to prepare?		☐ Yes	□ No
9.	Do you use after three times of loose		□ Yes	□ No
	stools or the first time of watery stool			
	/ mucous stool with blood?			
10.	Do you use ORS solution each time		□ Yes	□ No
	of stool passing as follows?			
	Under-2-year children, use 1/4 - 1/2			
	glass (50 – 100 ml.)			
	Two-10- year children, use ½ - 1			
	glass (100 – 200 ml.)			
	More than ten years, use greater than			
	one glassfull or as required			
11.	Do you know you have to send the		☐ Yes	□ No
	children or patient to health center or			
	hospital, if they still have more than			
	one time of watery stool passing in 2			
	hours or they are thirsty / weakness			
	or they cannot eat or drink?			
12.	Do you know ORS solution will be		☐ Yes	□ No
	freshly prepared and not used after 24			
	hours have passed?			
		l	_J	

	Checklist	Family Health Leader Name	House Address
13	Do you know the ORS solution over 24 hours may be germ contaminated? Do you know you can use food- based fluids (e.g. soup, watery rice,		☐ Yes ☐ No
	yoghurt drinks, or cereal fluid) containing some salt instead of O.R.S solution?		

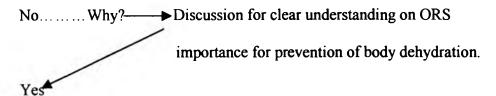
2. Guideline for informal focus interview about ORS

(Technical researcher = Interviewer, Selected family health leader = Interviewee)

- 1. What do you know about ORS and ORS solution?
- 2. Do you use ORS solution when you or your family number have acute diarrhea?



- 3. In your opinion, what are the appropriate home fluids or food-based fluids for prevention of body dehydration?
- 4. Do you have any package of ORS in your house?



- 5. What type of ORS solution is practically used?
- 7. How long does the ORS solution have been used after dissolution? Why?
- 8. Do you know the quantity of ORS solution intake will be adjusted by and quantity of stool passing?

- 9. Do you know when ORS solution is used for effective prevention of body dehydration?
- 10. Do you know when patient of acute diarrhea especially, the child, will be sent to a health facility?

APPENDIX: E

How to Know Villagers Behaviors Development on Acute Diarrhea Prevention and Self-Care

The questionnaires and guidelines in this appendix will be used for following the development of acute diarrhea prevention and self-care behaviors in each stage of PAR process (Before, On going and After) compared with weekly observed data of housing and food sanitation.

1. Questionnaire for interviewing about behavior development on acute diarrhea prevention

Questionnaire for watching about Behaviors Development (Acute Diarrhea Prevention Behavior)

Family Health Leader	House Address
Name	
	☐ Yes ☐ No
q	□ Yes □ No
5	□ Yes □ No
	g to respondent's agree Family Health Leader

	Checklist of	Family Health Leader	Н	ouse .	Addı	ress
	" Can you practice it?"	Name				
4.	More careful of hand washing and			Yes		No
	cleanness of food and drinking water					
	when diarrhea occurred in the family					
5.	Eating only freshly prepared food			Yes		No
6.	Awareness of prepared food covering			Yes		No
7.	Refusal to eat unheated stale food			Yes		No
8.	Refusal of inadequately heated food			Yes		No
9.	Drinking only boiled water			Yes		No
10.	Boil / warm the food purchased from			Yes		No
	street -food venders					
11.	Washing cooking utensils and eating			Yes		No
	accessories with detergent solution					
12.	Having defecation in sanitary latrine			Yes		No
13.	Awareness of sanitary latrine's			Yes		No
	cleanliness					
	,					

	Checklist of	Family Health Leader	House	Address
	" Can you practice it?"	Name		
14.	Food preparation floor is higher than		☐ Yes	□ No
	50 cm ($=60$ cm) from the ground			
15.	Not to throw garbage out carelessly	×	□ Yes	
16.	Collect household garbage in covered		□ Yes	□ No
	bin			
17.	In the case of accidental watery		☐ Yes	
	defecation on the floor, clean the			
	floor by moving feces out as much as			
	possible to the toilet and then wash			
	with detergent and water			
18.	In the case of accidental watery		☐ Yes	
	defecation on the ground the feces			
	would be buried			
19.	In the care of feces spatters on		□ Yes	□ No
	clothes, rinse it out with water into			
	toilet before washing the clothes as			
	usual.			
20.	Clean anus with soap and water after		□ Yes	
	defecation			
		1	1	

2. Guideline for focus group discussion about appropriate behaviors on acute diarrhea prevention

(Technical researchers = Moderator, Facilitator and Guard, Selected family health leaders = Key informant)

- 1. Do you know any behavior for acute diarrhea prevention? What?
- 2. Are they similar to the items in the checklist?
- 3. Can you practice the behaviors in the checklist? Which one can you and which one can you not practice?



- 5. Do you think those who practice these required behaviors will not get acute diarrhea?
- 6. Is it necessary to practice all?
- 7. What items would be skipped?
- 8. What items would be changed? Why?
- 9. What are they changed to?
- 10. What are the appropriate behaviors on acute diarrhea prevention?

3. Questionnaire for interviewing about behavior development on acute diarrhea self-care. (primary treatment at home)

Questionnaire for watching about behaviors development (Acute Diarrhea Self-care Behavior)

N	Name of village researcher			
N	Tumber of houses for which responsible			
N	Mark ✓ in □ Yes or □ No, according	ng to respondent's a	greement	
	Checklist of	Family Health Leader	House A	Address
" Can you practice it?"		Name		·
1.	Eating clean food more frequently in		☐ Yes	□ No
	small quantity			
2.	Drinking freshly dissolved ORS (In		□ Yes	□ No
	24 hr. after being dissolved)			
3.	Not taking medicine without		□ No	□ Yes
	professional direction			
4.	Not taking any Antidiarrheal agent		□ No	□ Yes
5.	More frequent breast feeding in under-		□ Yes	□ No
	5- year age group			
6.	Have the meals as usual		☐ Yes	
7.	Increase one meal per day for two		□ Yes	□ No
	weeks			
8.	Go to consult with health personnel if		□ Yes	□ No
	not getting better in one day			

4. Guideline for focus group discussion about appropriate behaviors on acute diarrhea self- care (Primary treatment at home)

(Technical researcher = Moderator, Facilitator and Guard, Selected family health leader = Key informant)

- 1. Do you know any behavior on acute diarrhea self-care? What?
- 2. Are they similar to the items in the checklist?
- 3. Can you practice the behaviors in the checklist? Which one can you and which one can you not practice?
- 5. Do you think those who treat themselves or their children with these required behaviors will be protected from body dehydration danger?
- 6. Is it necessary to practice all?

Yes

- 7 What items would be skipped?
- 8. What items would be changed? Why?
- 9. What are they changed to?
- 10. What are they the appropriate behaviors on acute diarrhea self-care?

How to Get Alternative Behaviors and Encourage the Family Health Leaders to Participate in Sustainable Practicing of the Required Behaviors

The guideline in this appendix will be used for building dialogue about alternative behaviors on acute diarrhea prevention and self-care that are appropriate for sustainable practicing.

Guideline for focus group discussion (FGD) about alternative behaviors on acute diarrhea prevention and self-care

(Technical researchers = Moderator, facilitator and guard, Selected family health leaders = Key informant)

- 1. Besides behaviors in the checklist do you have any suggestion of alternative behaviors that would motivate sustainable practicing?
- 2. Is there any problem or constraint in sustainable practicing of the behaviors in the checklist?

No..____Brain storming with concept mapping to find constraints

Yes

- 3. What are they?
- 4. How to solve them?
- 5. What can the community do?
- 6. Does the group need governmental help?
- 7. Do you think the family health leaders will be a pioneer group of practicing those behaviors?
- 8. Whom do you need to help you on reminding family members about health?

 Why?
- 9. How do you get villagers interested in practicing behaviors on acute diarrhea prevention and self-care?

APPENDIX: G

How to Measure the Acute Diarrhea Incidence Rate in Under-5-Year Old Age Group

This appendix shows the weekly report form using the collection of acute diarrhea cases among under-5-year age group.

Weekly Record of Acute Diarrhea Episodes among Under – 5 – Year Age Group by Village Health Volunteer

Name of recorder	(Village health volunteer)
No. of houses for which responsible	
No. of children in under-5-year age group	

Name of	Name of Family	First day of		Last day	Total	
Under-5-year	health leader	Acute diarrhea		of	days	
age group	and House	Before After		episode	in an	
	Address	PAR	Process	PAR Process		episode
1.						
2.						
3.						
Remark: Send to health center every Monday						

APPENDIX: H

Table H.1

Number and Percentage of Respondents by Diarrhea Information Sources

Table H.2

Number and Percentage of Respondents in Adolescent Source (Group 1)

Table H.3

Mc Nemar Test for Difference, in Respondent Group 1 about Agreement of Practicing on Each Item of Acute Diarrhea Prevention and Self – care Behaviors, before and after PAR Process

Table H.4

Mc Nemar Test for difference, in Respondent Group 2 about Agreement of practicing on Each Item of. Acute Diarrhea Prevention and Self – care Behaviors, before and after PAR Process

Table H.1 Number and Percentage of Respondents by Diarrhea Information
Sources

Diarrhea Inf. Source Adolescent (Group 1)	r	1 = 82
	No	%
Adolescent (Group 1)	49	59.8
Others (Group 2)	33	40.2

Table H.2 Number and Percentage of Respondents in Adolescent Source (Group 1)

Distrik on Inf. Courses	n =	= 49
Diarrhea Inf. Source	No	%
Adolescent only	21	42.9
Adolescent and Others	28	57 .1

Table H.3 Mc Nemar Test for Difference, in Respondent Group 1 about

Agreement of Practicing on Each Item of. Acute Diarrhea

Prevention and Self-care Behaviors, before and after PAR Process

	Required Behavior Items		n =			
	Acquired Denavior Acms		b	c	d	P-Value
Acute	Diarrhea Prevention B.					
1.	Hand washing before cooking	27	4	11	7	.118
2.	Hand washing after defecation	41	1	7	0	.070
3.	Hand washing before eating	12	4	26	7	.000
4.	More careful of food and cleanness of	32	0	15	2	.000
	drinking water when diarrhea occurred					
	in the family					
5.	Eating only freshly prepared food	47	1	1	0	1.000
6.	Awareness of covering prepared food	46	3	0	0	.250
7.	Refusal to eat stale food	38	4	6	1	.754
8.	Refusal of inadequately heated food	30	6	12	1	.238
9.	Drinking boiled water	10	4	14	21	.031
10	. Boil/warm food purchased from street-	19	2	12	16	.031
	food venders					
11	. Washing cooker utensils and eating	46	0	3	0	.250
	accessories with detergent solution					

Note. a = number of the respondents who practiced the required behavior both before and after program implementation

- b = number of the respondents who practiced the required behavior before but after program implementation they did not
- c = number of the respondents who did not practiced the required behavior before but after program implementation they did
- d = number of the respondents who did not practiced the required behavior both before and after program implementation

Table H.3 (cont.)

Dequired Robevier Items			n =			
	Required Behavior Items	a	b	c	d	P-Value
11.	Having defecation in sanitary latrine	49	0	0	0	No difference
12.	Awareness of sanitary latrine	48	0	1	0	1.000
	cleanliness					
13.	Food preparation floor is higher than 50	45	0	4	0	.125
	cm (60 cm) from the ground					
14.	Not to throw garbage out carelessly	43	1	5	0	.219
15.	Collect household garbage in covered	29	2	11	7	.022
	bin					
16.	Clean the floor as directed	31	1	13	4	.002
17.	Feces on ground will be buried	38	1	8	2	.039
18.	Clothes will be washed as directed	22	1	19	7	.000
19.	Clean anus with soap and water	38	1	8	2	.039
Acute	Diarrhea Prevention B.					
1.	More frequently eating in small	34	6	5	4	1.000
	quantity					
2.	Drinking freshly dissolved ORS	39	0	6	4	.031
3.	Not taking medicine without	19	5	18	7	.011
	professional direction					
4.	Not taking any antidiarrheal agent	20	5	18	6	.011
5.	More frequent breast feeding	24	9	6	10	.607
	(Under-5-year old age group)					
6.	Have meals as usual	38	2	8	1	.109
7.	Increase one meal/day for two weeks	19	5	11	14	.210
8.	Consult health personnel if not getting	48	0	1	0	1.000
	better in one day					

Table H.4 Mc Nemar Test for Difference, in Respondent Group 2 about

Agreement of Practicing on Each Item of. Acute Diarrhea

Prevention and Self-care Behaviors, before and after PAR Process

	Dequired Dehavior Items		n =	33			
	Required Behavior Items	a	b	c	d	P-Value	
Acute	Diarrhea Prevention B.						
1.	Hand washing before cooking	13	4	8	8	.388	
2.	Hand washing after defecation	18	3	9	3	.146	
3.	Hand washing before eating	8	5	6	14	1.000	
4.	More careful of food and cleanness of	18	2	9	4	.065	
	drinking water when diarrhea occurred						
	in the family						
5.	Eating only freshly prepared food	29	i	2	1	1.000	
6.	Awareness of covering prepared food	30	1	2	0	1.000	
7.	Refusal to eat stale food	20	2	9	2	.065	
8.	Refusal of inadequately heated food	23	2	4	4	.688	
9.	Drinking boiled water	5	1	3	24	.625	
10	. Boil/warm food purchased from street-	15	5	7	6	.774	
	food venders						

Note. a = number of the respondents who practiced the required behavior both before and after program implementation

- b = number of the respondents who practiced the required behavior before but after program implementation they did not
- c = number of the respondents who did not practiced the required behavior before but after program implementation they did
- d = number of the respondents who did not practiced the required behavior both before and after program implementation

Table H.4 (cont.)

D D. L		n =	49	-	
Required Behavior Items	а	b	c	d	P-Value
11. Washing cooker utensils and eating	32	0	1	0	.000
accessories with detergent solution					*
12. Having defetion in sanitary latrine	33	0	0	0	No difference
13. Awareness of sanitary latrine cleanliness	31	0	2	0	.500
14. Food preparation floor is higher than 50	28	0	4	1	.125
cm					
15. (60 cm) from the ground	28	0	5	0	.063
16. Not to throw garbage out carelessly	13	4	7	9	.549
17. Collect household garbage in covered	19	1	6	7	.125
18. Bin	21	2	6	4	.289
19. Clean the floor as directed	11	7	10	5	.629
20. Feces on ground will be buried Clothes	23	3	7	0	.344
will be washed as directed Clean anus					
with soap and water					
Acute Diarrhea Prevention B.					
1. More frequently eating in small	24	2	6	1	.289
quantity					
2. Drinking freshly dissolved ORS	18	2	5	8	.453
3. Not taking medicine without	3	10	12	8	.832
professional direction					
4. Not taking any antidiarrheal agent	5	9	12	7	.664
5. More frequent breast feeding	12	6	11	4	.332
(Under-5-year old age group)					
6. Have meals as usual	26	4	3	0	1.000
7. Increase one meal/day for two weeks	8	0	4	21	.125
8. Consult health personnel if not getting	32	0	1	0	1.000
better in one day					

APPENDIX: I

Table I. 1

Chi - square Test for Difference, in Agreement of Practicing on Each Item of Acute Diarrhea Prevention and Self-care Behaviors, between Two Groups of Respondents (Group 1 and Group 2) before PAR Process

■ Table I. 2

Chi - square Test for Difference, in Agreement of Practicing on Each Item of Acute
Diarrhea Prevention and Self-care Behaviors, between Two Groups of Respondents
(Group 1 and Group 2) after PAR Process

Table L1 Chi-square Test for Difference, in Agreement of Practicing on Each

Item of Acute Diarrhea Prevention and Self-care Behaviors, between

Two Groups of Respondents (Group 1 and Group 2) before PAR

Process

	Required Behavior Items	G.	1	G	.2	P-Value	
	Required Benavior Items		n = 49		= 33	1 Varac	
		Yes	No	Yes	No		
Acut	te Diarrhea Prevention B.		-				
1.	Hand washing before cooking	31	18	17	16	.290	
2.	Hand washing after defecation	42	7	21	12	.020	
3.	Hand washing before eating	16	33	13	20	.531	
4.	More careful of hand washing	32	17	20	13	.665	
	and cleanness of food and						
	drinking water when diarrhea						
	occurred in the family						
5 .	Eating only freshly prepared	48	1	30	3	.146	
6.	food	49	0	31	2	.081	
	Awareness of covering						
7.	prepared food	42	7	22	11	.041	
8.	Refusal to eat stale food	36	13	25	8	.816	
	Refusal of inadequately heated	ļ					
9.	food	14	35	5	27	.283	
10.	Drinking boiled water	21	28	20	13	.115	
	Boil / warm food purchased						
	from street-food venders						

Table I. 1 (cont.)

			n =	= 82		
	Required Behavior Items	G.	1	G	.2	P-Value
	Required Benavior items	n =	= 49	n =	= 33	1 - Varue
		Yes	No	Yes	No	
11.	Washing cooker utensils and	46	3	32	1	.524
	eating accessories with					
	detergent solution					
12.	Having defecation in sanitary	49	0	33	0	No Difference
	latrine					
13	Awareness of sanitary latrine	48	1	31	2	.342
	cleanliness					
14.	Food preparation floor is	45	4	28	5	.321
	higher than 50 cm (60 cm)					
	from the ground					
15.	Not to throw garbage out	5	44	5	28	.502
	carelessly					
16.	Collect household garbage in	31	18	17	16	.290
	covered bin					
17.	Clean the floor as directed	32	17	20	13	.665
18.	Feces on ground will be buried	39	10	23	10	.306
	Clothes will be washed as					
19.	directed	23	26	18	15	.499
	Clean anus with soap and					
20.	water	39	10	26	7	.930

Table L 1 (cont.)

	Dequired Dehavior Items	G. 1 G.2			.2		
	Required Behavior Items	n = 49		n =	33	P-Value	
		Yes	No	Yes	No		
Acut	te Diarrhea self - care B.					4	
1.	More Frequently eating in	40	9	26	7	.750	
	small quantity						
2.	Drinking freshly dissolved	39	10	20	13	.061	
	ORS						
3.	Not taking medicine without	25	24	20	13	.392	
	processional direction						
4.	Not taking any antidiarrheal	24	25	19	14	.445	
	agent						
5.	More frequently breast feeding	33	16	18	15	.241	
	(Under-5-year age group)						
6.	Have meals as usual	40	9	30	3	.244	
7.	Increase one meal / day for two	24	25	8	25	.024	
	weeks						
8.	Consult health personnel if not	48	1	32	1	.776	
	getting better in one day						

Table I. 2 Chi - square Test for Difference, in Agreement of Practicing on

Each Item Of acute Diarrhea Prevention and Self-care Behaviors,

between Two Groups of Respondents (Group 1 and Group 2)

after PAR Process

			n =	82			
	Required Behavior Items	G.	1	G	.2	P-Value	
	Required Bellavior items		n = 49		33	r - value	
			No	Yes	No		
Acut	te Diarrhea Prevention B.						
1.	Hand washing before cooking	38	11	21	12	.169	
2.	Hand washing after defecation	48	1	27	6	.010	
3.	Hand washing before eating	38	11	14	19	.001	
4.	More careful of hand washing	47	2	27	6	.035	
	and cleanness of food and						
	drinking water when diarrhea						
	occurred in the family						
5.	Eating only freshly prepared	48	1	31	2	.342	
	food						
6.	Awareness of covering	46	3	32	1	.524	
	prepared food						
7 .	Refusal to eating stale food	44	5	29	4	.785	
8 .	Refusal of inadequately heated	42	7	27	6	.636	
	food						
9.	Drinking boiled water	24	25	8	25	.024	
10.	Boil / warm food purchased	31	18	22	11	.752	
	from street-food venders						

Table I. 2 (cont.)

		1	n =	82		
	Described Debasies Masse	G.	1	G.	2	
	Required Behavior Items	n =	49	n =	= 33	P-Value
		Yes	No	Yes	No	
11.	Washing cooker utensils and	49	0	33	0	No Difference
	eating accessories with					
	detergent solution					
12.	Having defecation in sanitary	49	0	33	0	No Difference
	latrine					
13.	Awareness of sanitary latrine	49	0	33	0	No Difference
	cleanliness					
14.	Food preparation floor is	49	0	32	1	.220
	higher than 50 cm (60 cm)					
	from the ground					
15.	Not to throw garbage out	1	48	0	33	.409
	carelessly					
16.	Collect household garbage in	40	9	20	13	.035
	covered bin					
17.	Clean the floor as directed	44	5	25	8	.088
18.	Feces on ground will be buried	46	3	27	6	.087
19.	Clothes will be washed as	41	8	21	12	.038
	directed					
20.	Clean anus with soap and	46	3	30	3	.613
	water					-

Table L 2 (cont.)

			n =	82		
	Required Behavior	G.	. 1	G	.2	
	Items	n =	= 49	n =	33	P-Value
		yes	No	Yes	No	
Acut	te Diarrhea Self - care B.					
1.	More frequently eating in	39	10	30	3	.169
	small quantity					
2.	Drinking freshly dissolved	45	4	23	10	.009
	ORS					
3.	Not taking medicine without	12	37	18	15	.006
	professional direction					
4.	Not taking any antidiarrheal	11	38	16	17	.014
	agent					
5.	More frequently breast feeling	30	19	23	10	.431
	(Under-5-year age group)					
6.	Have meals as usual	46	3	29	4	.340
7.	Increase one meal / day for two	30	19	12	21	.027
	weeks					-
8.	Consult health personnel if not	49	О	33	0	No Difference
	getting better in one day					

APPENDIX: J

Variables Analysis and Data Collection Plan

This appendix will help researcher analyze variables from the research questions, and plan for the methods and target groups to collect the data.

Variables Analysis

Research question about	Variables and issues	Remark
1.Acute diarrhea	1.1.Frequency of loose	Three or more loose stools/ one
warning sign perception	stool, watery stool and	watery stool/ one mucoid stool
	mucoid stool with blood	with blood in 24-hour period
	1.2.Dehydration danger	1.No dehydration sign(<5%)
	level	2.Some dehydration(5-10%)
		3.Severe dehydration(>10%)
		(Jaranasri, U., Pornpatkul, S.,
		&
		Wongsaroj, T., 1997)
	1.3. Warning sign:	
	<5% Dehydration	No sinu
	5-10% Dehydration	No sign
		Restless, irritable, thirsty-drink
	>10% Dehydration	egerly
		Floppy, drink poorly or not
		able to drink, very sunken eyes
		and dry, tears are absent and
		very dry mouth
2. Transmission cycle of	2.1.Risk group	
acute diarrhea	-Under-5-year old age	
	group	
	2.2.Causes	Explanation of acute diarrhea
	-Agents/ vectors	cycle transmission and risk
	-Host:Personal hygiene	group
	2.3.Transmission routes	
	-Oral (eating)	
	1	

Research question about	Variables and issues	Remark
	2.4.How is acute	
	diarrhea transmitted	
	from one to others?	
	2.5.Knowledge and	Information for health
	attitude	education modification
	-Acute diarrhea warning	
	sign (1)	
	-What would the people	
	feel, if someone said	
	they got acute diarrhea	
	whenever they had	
	dinner at their house?	
3.Perception of Oral	3.1.Benefits	New concept for treatment of
Rehydration Salt		every type of acute diarrhea is:
Solution(ORS) usage		Giving ORS before
		dehydration sign occurred, will
		prevent people from
	4	dehydration danger.
	3.2.Constraints	To know why people do not
		use ORS or use only
		antidiarrheal drug or use both
	1	(information for decision
		making)
	3.3.Knowledge and	Information for health
	attitude	education planning
	-How to use it?	
	-Where is it available?	
	-What do people about	
	ORS?	

Research question about	Variables and issues	Remark
4. Acute diarrhea	4.1.People's behavior	Compare with required
prevention behavior	for acute diarrhea	prevention behaviors
	prevention	
	4.2.Knowledge and	Information for health
	attitude	education planning
	-Do the people know the	
	reason why to practice	
	each each item of	
	required behaviors?	
	-What do they think	
	about each of the	
	required behaviors?	
5.Acute diarrhea self-	5.1.People's behavior	Compare with required self-
care behavior	for primary treatment of	care behavior
	acute diarrhea	
	5.2.Knowledge and	Information for health
	attitude	education planning
	-Do people know the	
	reason why to practice	
	each item of required	
	self-care behaviors?	
	-What do they think	
	each of self-care	
	behavior items?	
6.Alternative behaviors	6.1. Would they like to	Information for required
	change any item of the	behaviors modification and
	two groups of required	participatory health education

Research question about	Variables and issues	Remark
	6.1.(cont.)	Planning
	behaviors to be	
	appropriate with	
	people's lifestyle	
	6.2.How to change	
	people's behaviors?	
7.Under-5-year old age	7.1.Acute diarrhea	Compare with normally passed
group's incidence rate	considered by their	several or semiliquid stools
of acute diarrhea	parents/caretakers	each day
	7.2.Acute diarrhea	
	incidence rate of under-	
	5-year old age group	
	before PAR process	
	7.3.Incidence rate after	Compare with that before the
	health education process	PAR process

Method and Target Group for Data Collection

Required data	Method	Target group of data
		collection
1.General information of	-Secondary data	Village documents
community		
1.1. Village history	-Group discussion	Woolth norsonnol
		Health personnel
		Village leaders
		Village health volunteers
1.2.Socioeconomic	-Questionnaires	Family health leaders
demographic information of		
the first target samples		
1.3.Acute diarrhea warning	-Observational	Family health leaders
sign perception	checklist	
	-Questionnaires for	
	interviewing	
2.Acute diarrhea transmission	-Questionnaires	Family health leaders
cycle perception	(Before, On-going,	
	& After PAR	
	process)	
	-Informal focus	
	interview &	
	observation	
3.ORS perception	-Questionnaires	Family health leaders
	(Before, On-going,	
	& After PAR	
	process)	
	-Informal focus	
	interview	
		1

Required data	Method	Target group of data
		collection
4. Acute diarrhea prevention	-Questionnaires	-Family health leaders
behaviors	(Before, On-going,	
	& After PAR	
	process)	
	-Focus group	-Village acute diarrhea
	discussion	prevention and control
		committee
5.Acute diarrhea self-care	-Questionnaires	-Family health leaders
behaviors	(Before, On-going,	
	& After PAR	
	process)	
	-Focus group	-Village acute diarrhea
	discussion	prevention and control
		committee
6.Alternative behaviors	-Focus group	-Family health leaders
	discussion	
7.Acute diarrhea incidence	-Record form	-Parents/caretakers of under-
rate among under-5-year old	(Before, On-going,	5-year old age group
age group	& After PAR	
	process)	

Curriculum Vitae

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Work Experience

Drug manufacturing	1967 - 1971
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Drug Q.C.	1974 - 1976
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Hospital pharmacist (Community Hospital)	1978 - 1988
Provincial Pharmaceutical Health	1989 - 1992
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