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The Research Questionnaire
Knowledge Attitude and risk behavior of *S. stercoralis* infection
..... **District, Kalasin Province**

Part 1: Demographic data

Description: please, add the sign (✓) in front of the blank () which you selected

1. Gender:

() 1. Male () 2. Female

Gen

1 = male 2 = Female

2. Birth date (dd/mm/yyyy).....

Birth (D/M/Y).....

Age :years

Age (number)

3. Weight..... Kilogram

Weight (number)

4. HeightCentimeter

Height (number)

5. Education levels

Edu

() 1. No formal education

6 = No formal education

() 2. Primary school

5 = primary school

() 3. Grade 7-9

4 = grade 7-9 school

() 4. Grade 10-12

3 = grade 10-12 school

() 5. Diploma

2= diploma

() 6. Graduated or higher

1 = graduated or higher

6. Occupations

Occ

() 1. Trade/ business owner

1 = trade / owner business.

() 2. Government/private officer

2= government/ private office

() 3. Student

3 = student

() 4. Agriculturalist

4 = Agriculturalist

() 5. other (Elderly/Housewife) specific.....

5 = others.....

7. Marital status

Status

() 1. Single

1= single

() 2. Married

2 = married

() 3. Devoted

3= devoted

8. Household income.....Bath

9. Do you have underlying disease?

- ☐ 1. No ☐ 2. Yes specific

10. Have you ever transplant organs? (i.e. kidney, heart, liver etc.)

- ☐ 1 No
☐ 2. Yes, specific (organ)

11. Have you ever cured *S. stercoralis* without stool examination?

- ☐ 1. No (pass 12) ☐ 2. Yes specific

12. How often do you take helminthic drugs (albendazole, mebendazole or ivermectin)?

- ☐ 1. Every 3-months
☐ 2. Every 6-months
☐ 3. Every 12-months
☐ 4. Other specific

13. Have you ever had a stool examination for *S. stercoralis* infection?

- ☐ 1. No (why)..... (pass no14, 15)
☐ 2. Yes 1 year ago
☐ 3. Yes 2-3 years ago
☐ 4. Yes more 3 years ago

14. If you have ever had a stool examination. Was you found *S. stercoralis*?

- ☐ 1. Don't know/ Can't remember (pass 15)
☐ 2. Not found (pass 15)
☐ 3. Found

15. You have ever had a *S. stercoralis* infection. Have you been treated?

- ☐ 1. No because.....
☐ 2. Yes

Inc (number)

Undz

0= no 1= yes.....

transor

0= no

1=yes

Specific.....

Druguse

0= not use

1= use

Drugfe

1= every 3 months

2= every 6 months

3 = every 12 months

4 =other

usedetect

0 = not use detect (pas
no.14, 15)

1 = use 1 year ago

2 = use 2-3 year ago

3 = use >3 year ago

Result

1= don't know

2 = not found

3 = found

Treat

0 = no

1 = yes

16. Have you ever been larvae currens on skin?

() 1. No () 2. Yes specific

17. What kind of toilet in your home?

() 1. Cesspool

() 2. Pit latrines

18. How do you manage stool in your latrine?

() 1. Septic tank cleaner

() 2. Fertilizer

() 3. Other specific

19. Do you have a pet (dog/cat) in your house?

() 1. No (pass no. 20, 21)

() 2. Dog.....

() 3. Cat

20. Do you ignore your pets defecated surround house area?

() 1. No () 2. Yes

21. Have you ever cured helminths in your pets?

() 1. No () 2. Yes

Frequency.....

The last date.....

22. Do you have a damp soil around house area?

() 1. No

() 2. Yes specific area.....

23. Have you been flooding in your house?

() 1. No

() 2. Yes specific

Frequency...../years

Duration of flooding.....

Larvae currens

0 = no 1 = yes

Type of toilet

1= Cesspool

2= Pit latrines

Faecesman

1= employ host manage

2= fertilizer

3= other

pet

0= no (pass no 20, 21)

1 =dog (.....)

2 = cat (.....)

petfe

0 = no

1 = yes

treatpet

0 = no 1 = yes

Freq.....

Date.....

Area

0 = no

1 = yes

Flooding

0 = no

1 = yes

Freq.....

Time.....

Part 2: The knowledge and Attitude of *S. stercoralis* and strongyloidiasis

2.1 The knowledge of *S. stercoralis* and strongyloidiasis

Topic	Yes	No
1. <i>S. stercoralis</i> is a tapeworm.		
2. The larvae of <i>S. stercoralis</i> can live in soil and directly penetrate to human skin.		
3. <i>S. stercoralis</i> can live and develop in soil.		
4. The dry soil has a high risk of <i>S. stercoralis</i> infection.		
5. <i>S. stercoralis</i> can be detected in blood circulation.		
6. The symptom of strongyloidiasis consists of chronic diarrhea, flatulence, abdominal pain.		
7. <i>S. stercoralis</i> can distribute to lung, brain and spinal cord.		
8. The patient who use of steroids tends to develop hyperinfection syndrome and disseminated strongyloidiasis that are potentially fatal.		
9. Strongyloidiasis does not need treated because the illness will disappear.		
10. Although, the patients who infected with <i>S. stercoralis</i> were treated already. The patients can be infected with <i>S. stercoralis</i> again when them directly contact contaminated soil.		
11. The dog and cat are the reservoir hosts of <i>S. stercoralis</i> which can distribute parasite into environment.		
12. Strongyloidiasis can prevent by cooked meat consuming.		
13. The defecation into the cesspool is the prevention of <i>S. stercoralis</i> distribution.		
14. Taking stool as fertilizer does not cause to <i>S. stercoralis</i> distribution.		
15. Agriculturist is high risk to <i>S. stercoralis</i> infection.		

2.2 The attitude of *S. stercoralis* and strongyloidiasis prevention and control.

Topic	Attitude		
	Agree	Not sure	Disagree
Prevention			
1. Human who directly contacts contaminated soil has a chance to be strongyloidiasis.			
2. Wearing rubber gloves during farming can help prevent the infection of <i>S. stercoralis</i> .			
3. Wearing boots can help prevent the infection of <i>S. stercoralis</i> .			
4. After contact soil, the hand and /or feet washing can help prevent the infection of <i>S. Setrcoralis</i> .			
5. The stool examination is essential for strongyloidiasis diagnosis.			
6. Two or three times per year of stool examination is adequate for strongyloidiasis prevention and control.			
7. The patients who were found <i>S. stercoralis</i> were necessary to treatment.			
8. Currently, we have a good drug for <i>S. stercoralis</i> treatment. Therefore, the strongyloidiasis prevention and control was not necessary.			
9. We should take a drug for <i>S. stercoralis</i> treatment without stool examination.			
10. The strongyloidiasis patient who use of steroids tends to develop hyperinfection syndrome and disseminated strongyloidiasis that are potentially fatal.			
Control			
11. The defecation into the cesspool is the prevention of <i>S. stercoralis</i> distribution.			
12. Taking stool as fertilizer does cause to <i>S. stercoralis</i> distribution.			
13. Dog and cat are the reservoir hosts of <i>S. stercoralis</i> .			
14. Strongyloidiasis is not the public health problem. Therefore, this does not necessary to prevention and control.			
15. The stool examination in pets and pets' treatment is the strongyloidiasis prevention and control.			

Part 3: Risk behavior to *S. stercoralis* infection

1. Have you ever defecated into surrounding environment?

- ☐ 1. NO
☐ 2. Yes specific (area).....

Feces to envi

- 0 = no
1 = yes

2. Have you ever directly contacted with contaminated soil?

- ☐ 1. NO (pass no.3,4)
☐ 2. Yes

Touching soil

- 0 = no
1 = yes

3. What was the activities with directly contacted contaminated soil without gloves?

.....

Activity of touching soil

.....

4. How often you directly contacted contaminated soil without gloves?

- ☐ 1. Everyday
☐ 2. 2-3 times/week
☐ 3. 1 time/week
☐ 4. 1 time/month
☐ 5. 2-3 times/month

Frequency of touching soil

- 1 = every day
2 = 2-3 times/week
3 = 1 time/week
4 = 1 time/month
5= 2-3 times/month

5. Have you ever bare foot walking on contaminated soil?

- ☐ 1. NO (pass no.6, 7)
☐ 2. Yes

Walking soil

- 0 = no
1 = yes.

6. What were the activities with bare foot walking on contaminated soil?

.....

Activity of walking soil

.....

7. How often your bare foot walking on contaminated soil?

- ☐ 1. Everyday
☐ 2. 2-3 times/week
☐ 3. 1 time/week
☐ 4. 1 time/month
☐ 5. 2-3 times/month

Frequency of walking soil

- 1 = every day
2 = 2-3 times/week
3 = 1 time/week
4 = 1 time/month
5= 2-3 times/month

8. Where was area that you directly contacted or bare foot walking on contaminated soil

- ☐ 1. Own Residence
☐ 2. Own Farm
☐ 3. Others' farms

9. Have you ever use animal dung as fertilizer?

- ☐ 1 No (pass no.10)
☐ 2. Yes

10. How often you use animal dung as fertilizer?

- ☐ 1. 1 time/week ☐ 2. 2-3 time/week
☐ 3. 1 time/month ☐ 4. 2-3 months / time
☐ 5. 6 months / time

11. Have you ever use stool as fertilizer?

- ☐ 1 No (pass no.12)
☐ 2. Yes

12. How often you use stool as?

- ☐ 1. 1 time/week ☐ 2. 2-3 times/week
☐ 3. 1 time/month ☐ 4. 2-3 months / time
☐ 5. 6 months / time

13. Have you ever use steroid drug and herb at 3 month ago?

- ☐ 1 No (pass no.14)
☐ 2. Yes

14. How often you use steroid drug and herb at 3 month ago?

- ☐ 1 every day ☐ 2 2-3 times/week
☐ 3 1 time/week ☐ 4 1 time/month
☐ 5 2-3 times/month

Area of touching soil

- 1 = house area
2 = owner Farm or Fields
3 = other person's Fields

Use of animal fertilize

0 = no 1= yes

Use timing of animal fertilize

- 1 = 2-3 times/week
2 = 1 time/week
3 = 1 time/month
4 = 2-3 times/month
5 = 6 times/month

Use of human fertilize

0 = no 1= yes

Use timing of human fertilize

- 1 = 2-3 times/week
2 = 1 time/week
3 = 1 time/month
4 = 2-3 times/month
5 = 6 times/month

Use steroid

0 = no 1 = yes

Time of use steroid

- 1 = every day
2 = 2-3 times/week
3 = 1 time/week
4 = 1 time/month
5= 2-3 times/month