APPENDICES

Appendix 1 : Consent form

Cost-effectiveness of Isoniazid 9 months versus Rifampicin plus Pyrazinamide for prevention to active tuberculosis among HIVinfected persons in Chiang Rai, Thailand

TB/HIV Research project, Provincial health office Chiang Rai and TB Division, Ministry of Public Health, Thailand

Now, ... We are asking you to take part in this research study. What this would mean to you is that today we would take another chest x-ray, sputum smear, tuberculin skin test and a tube of blood from a vein in your arm. Your blood will be tested to make sure you are the kind of person who is less likely to have side effects from the antibiotic and the medicine used to prevent TB, to see how early or advanced your HIV infection is, and to make sure you are not pregnant(in case woman). If everything from the tests looks ok for you to be part of the study , you would need to come back in two weeks, to give another blood sample and then every month after that come to this clinic to be checked and to get your medicines. "Being checked" means answering simple questions about your health, having the pills that are leftover from your last refill checked, and giving a urine sample, you will be apart of the study for 9 monthss, or until you get sick with TB, can't take the medicine because of side effects, or because you don't take the medicines or come for follow-up as directed.

Benefits: Those participants who may benefit from the TB chemoprophylaxis will be provided with free medication, after they are counselled about TB. Everyone in the study takes at least two months of the TB tablets which can greatly reduce the

chance that you will get TB and may have fewer infections than if they weren't in the study. You will also be seen by a nurse or doctor once a month so that if you do become sick you may be treated sooner. You should come back sooner than your scheduled appointment to get the right care. This research may also help us care for other persons living with HIV/AIDS in the future.

Risk/Discomforts: If you feel uncomfortable to answer some of the question, you have a right to skip or stop answering. Regarding to the skin tests, the antigens are widely used and well proven as safe. Well-trained personnel will carefully perform the skin tests with internationally standardized antigens to minimize the pain, ulcerations, slough and contaminated infection at the injection sites. Major inconvenience is the requirement that you have to return for two days later. We will reimburse you transportation or other expenses in connection with the participation in this study.

Taking the blood from your arm may cause mild pain from the needle and cause a slight change in color in the skin where the needle goes in.(This take a few days to normal.) Your body will replace the small amount of blood we take in a few days. Some people get side effects from the TB medicine, these side effects are usually mild and don't last long, like a little rash or stomach upset. But sometimes the side effects are serious, like liver disease. We will try to not let this happen.

Confidentiality: Your name will be used in any speech or paper about this study. We will not share any of your results with anyone or tell your status to other people like your friends, family, or boss.

Refusal to participate: If you do not want to take part in this research study you can change your mind at any time and stop being in the study. If you have any questions about your rights in this study you can talk to Dr..... and Ms. Saiyud Moolphate(Research nurse) TB/HIV research project, 1050 Sathanpayaban Road, Muang District, Chiang Rai, Thailand. Tel: 053-713135

When you sign below, it shows that you agree to let us enroll you in the study. If there is any part of the study that is not clear to you, ask the nurse or doctor about it now. Do not sign until you get answers for all your questions. If you agree to be in this study, please sign here.

I,(name)							<u> </u>
Address number	mu	_tamb	ol		amphur		<u> </u>
Province	, have	been	explained	and	understand	the	information
contained in this form	n explanation.						

I understand that my participation is entirely voluntary, and that I can change the consent at any time when I wish. I voluntarily participate in the study.

Signature	(participant)
Signature	(responsible person)
Signature	(witness)
Date / /2003	

Appendix 2: Enrollment Questionnaire form of treatment of LTBI

Study ID_____

Cost-effectiveness of Isoniazid 9 months versus Rifampicin plus Pyrazinamide for

prevention to active tuberculosis among HIV-infected persons

in Chiang Rai province, Thailand

Interviewer.....

<u>Information</u> Filling or marking $(\sqrt{})$ in a blank space or right answer

1. Date of screening (dd/mm/yyyy).		• • • • • • • • • • • • • • • • • • • •
2. Name		
3. Hospital	HN	DCC No

Demographic characteristics

4. Sex	[] male	[] female
5. Wha	is your birthdate?(dd/mm/yyyy)	Age(years)
Pat	ient must be 18–50 to be enrolled.	
6. Add	ress	
	number of housename of village	;
	MooSub-district	

	District				
	[] Maung	[] Weing Ch	ai	[] Chiang Khong	
	[] Tong	[] Phan		[] Padad	
	[] Mae Chan	[] Chiang Sa	in	[] Mae Sai	
	[] Mae Sreoy	[] Wiang Pa	Pao	[] Paya Meang Rai	
	[] Wiang Kan	[] Mae Pha	Loang	[] Kun Tan	
	[] Mae Lao	[] Wiang Ch	iang Rung	[] Doi Luang	
7. Phor	ne number			• • • • • • • • • • • • • • • • • • • •	
8. Citiz	en ID	•••••••••••••••••••••••••••••••••••••••			
9. Nam	e of close friend or re	lative who will know	the subject's ou	atcome in case the	
subject	is lost to follow-up				
10. Nationality					
	[] Thai	[] Foreign (specify)			
11. Eth	nic				
	[] Thai	[] Chinese	[] Burmese	[] Laos	
	[] Hill-tribe (specif	fy)			
12. The	e highest educational	evel			
	[] None	[] Primary school	[] Secondary	y school	
	[] College/ Vocational training [] Bachelor/Post graduate				
	[] other (specific).				
13. Oc	cupational				
	[] Farmer	[] Civil servant	[] Labor		
	[] Merchandise	[] Housewife	[] student		

[] Military/ Police [] Fisherman	[] Teacher
[] Employed by company	[] Self-employed
[] Monkshood	[] Unemployed
[] Other (specify)	

14. Marital status

[] Single	[] Marriage	[] Divorce
[] Widow	[] others	

Patient cost of program

15. Do you have health insu	irance?	
[] 30 baht	[] 30 baht with gold card	[] social security insurance
[] Civil servant me	dical benefit	
[] Free medical car	re for the elderly(Elderly card)	[] Nothing
16. Average Income	I	Baht/day
17. How many days do you	work per week	Days
18. Do you pay any money	to hospital for this visit?	
[1] No	[2] Yes, how much	baht and for what
(list)1		
2		
3		

.

19. You go to hospital by		
[] Bus	[] Tuk-Tuk	[] Motorcycle
[] Own car	[] Others	
20. How far from your house	to hospital?	Kilometers
21. How many person go to l	hospital with you?	persons
22. How much you pay for tr	ansportation cost (patient) in t	this visitBaht
23. How much you pay for tr	ransportation cost(relatives) in	this visitBaht
24. Do you have to stay over	night for this visit?	
[1] Yes	[2] No	
If yes, how much you pay for	r accommodation	baht (patient)
If yes, how much you pay for	r accommodation	baht (relatives)
25. Do you ask any body to l	ook for your house while you	go to hospital?
[] No	[] Yes	
If yes, do you pay money for	them for look after your hous	e?
ι,		

26. Do you ask any body to look for your child while you go to hospital?

[]No []Yes

If yes, do you pay money for them for look after your child?

[] No [] Yes.....baht

TB screening

27. Has the subject had any of the following? (can check more than 1 choice)

1. Chronic cough more than 2 weeks	[]Yes	[] No
2. Coughing up blood (Hemoptysis)	[] Yes	[] No
3. Fever > 2 weeks	[] Yes	[] No
4. Night sweats	[] Yes	[] No
5. Body weight decrease less than 10%	[] Yes	[] No
(unexplained weight loss)		
6. Shortness of breath	[] Yes	[] No
7. Chest pain	[] Yes	[] No
8. Fatigue poor appetite	[] Yes	[] No
9. Others/specify	[] Yes	[] No
28. Has the patient ever taken treatment for TB?	[] Yes	[] No
If yes, Where did you get the treatment an	d how long were your	treatment
result?		
		• • • • • • • • • • • • • • • • • • •

If "yes", patient is ineligible for study.

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. . . .

29.On DM treatment	[]Yes	[] No	
30. What is patient's estimated Karr	nofsky status?		
Must be ≥ 60 for enrollment.			
31. Is the patient taking any antiretre	oviral drugs now?		
If yes, specific			
32.Other than antiretrovirals, is pat	ient taking other medica	tions? (Do you on regular	Γ
drug?)			
If yes, please list			
Side effect screening			
33. Has patient ever been told he or	she had viral hepatitis o	r any serious liver disease	e?
	[]Yes	[] No	
34. Alcoholism(Drink alcohol every	day in past 6 months)		
	[]Yes	[] No	
35. Pregnancy?	[]Yes	[] No	
36. Has the patient ever had a serious reaction to any medication?			
	[]Yes	[] No	
If yes, which medication?.			

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	What was the reaction	on?		
	1. rash	2. Trouble bre	eathing 3. Hematologi	ical reaction(anemia)
	4. swelling	5. Unsure		
Adher	ence screening			
37. Do	you have plan to mov	e to another pro	ovince?(Uncertain add	ress)
			[] Yes	[] No
38. Do	you allow health staff	for home visit	?	
			[] Yes	[] No
39. Hav	e you ever used drug	addict?		
			[] Yes	[] No
Physic	al examination			
40. Bod	ly Weight	Kilograms	Height	Centimeters
41. BC	G scar		[] Yes	[] No
42. Ora	l candidiasis or hairy	leukoplakia	[]Yes	[] No
13 Uar	nes Zoster more than	1 dermatorna		[] No
73. NCI	pes Zoster more than			
44. Cen	itral nervous system d	vsfunction	[] Yes	[] No
	5	-		-

Laboratory

45. Chest x ray	date(dd/mm/year)
[] normal	
[] abnormal	specific
46. Sputum smear AH	B date
1.(dd/mm/ye	ar)[] positive[] negative
2. (dd/mm/y	ear)[] positive[] negative
3. (dd/mm/y	ear)[] positive[] negative
47. CD4	
48. CBC date of	btained (dd/mm/year)
Total	
WBC	
Neutrophil count	
Heamoglobin	
Platelets	
49. Liver function tes	st : SGOT(aspirate aminotransaminase)
(dd/mm/year))
Total bilirubin	
50. Creatinine(dd/m	m/year)

PPD skin test

51. Have you ever had Tuberculosis skin test before?
[1] Yes/when
52. D/M/Y of skin test/
Location of skin tests
• [] Left forearm
• [] Right forearm
Researcher nurse
53. Appointment date for reading (D/M/Y)/
Appointment place for reading
[1] At hospital
Reading skin test
This part should be asked when skin tests are read (2-3 days) but not later than 5 days.
54. Reading Date (D/M/Y)/
55. The longest diameter of induration(not erythema) in mm
PPD Test = mm.
Reader's signature

56. Does the contact case complain any side effects?

1 Erythema	[1] Yes	[2] No
2 Blister	[1] Yes	[2] No
3 Others		••••

Conclusion

This patient can meet criteria....

•••

Appendix 3: Follow up questionnaire form

Study ID_____

Cost-effectiveness of Isoniazid 9 months versus Rifampicin plus Pyrazinamide for

prevention to active tuberculosis among HIV-infected persons in

Chiang Rai, Thailand

Interviewer

<u>Information</u> Filling or marking $(\sqrt{})$ in a blank space or right answer

1.	Date of follow up (dd/r	nm/yyyy)		
2.	Name			
3.	Hospital	HN	DCC No	IPT No

Patient cost of program

4. How many days do you work per month...... Days

5. Do you pay any m	oney to hospital for this visit?
[] No	[] Yes, how muchbaht and for what
(list)	
1	
2	
3	

6. You go to hospital by	•••••••	
[] Bus] Tuk-Tuk	[] Motorcycle
[] Own car	[] Others	
7. How far from your house t	to hospital?	Kilometers
8. How many person go to he	ospital with you?	persons
9. How much you pay for tra	nsportation cost (pat	ient) in this visitBaht
10. How much you pay for tr	ansportation cost(rel	atives) in this visitBaht
11. Do you have to stay over	night for this visit?	
[1] Yes	[2] N	lo
If yes, how much you pay for	raccommodation	baht (patient)
If yes, how much you pay for	r accommodation	baht (relatives)
12. Do you ask any body to le	ook for your house v	while you go to hospital?
[] No	[]Yes	
If yes, do you pay money for	them for look after y	our house?
[] No	[]Yes	baht
13. Do you ask any body to le	ook for your child w	hile you go to hospital?
[] No	[]Yes	

If yes, do you pay money for them for look after your child?

[] No [] Yes.....baht

Evaluation for active TB

14. Has subject's had any known exposure to active TB since last follow-up visit?

[]Yes	[] No	[] Unknown
LJ		

15. Has the subject had any of following?

15.1 Chronic cough more than 2 weeks	[] Yes	[] No
15.2 Coughing up blood (Hemoptysis)	[] Yes	[] No
15.3 Fever > 2 weeks	[] Yes	[] No
15.4 Night sweats	[]Yes	[] No
15.5 Body weight decrease less than 10%	[] Yes	[] No
(unexplained weight loss)		
15.6 Shortness of breath	[] Yes	[] No
15.7 Chest pain	[] Yes	[] No
15.8 Fatigue poor appetite	[] Yes	[] No

Evaluation for compliance with study medications

16. Does the subject report taking all medications?

[]Yes []No

17. From INH pill count, how many missed doses have there been in the last month?

[] = 0.5 [] = 6.10 [] = 11.15 [] = 16.20 [] = >20 [] unknown

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18. What are the results of INH urine metabolite test?

[] Neggative [] Positiave [] Not done

- 19. What is the color of urine?
 - [] yellow(normal) [] orange

Evaluation for drug side effects

20. Has the subject had any of the following symptoms that might be related medications?

a) Jaundice	[]Yes	[] No	[] Unknown
b) exfoliate dermatitis	[]Yes	[] No	[] Unknown
c) peripheral neuropathy	[]Yes	[] No	[] Unknown
d) persistent joint pains	[]Yes	[] No	[] Unknown
e) nausea/vomiting	[] Yes	[] No	[] Unknown
f) abdominal pain	[] Yes	[] No	[] Unknown
g) loose stools (3 in 24 ho	our period)		
g) loose stools (3 in 24 ho	our period) [] Yes	[] No	[] Unknown
g) loose stools (3 in 24 hoi) less frequent urination		[] No [] No	[] Unknown [] U nknown
	[]Yes		
i) less frequent urination	[] Yes [] Yes	[] No	[] Unknown

		Appendix IV: Wo	ork Sheets for Cost Calcula	tion	
Hospital point of view					
(1)	(2)	(3)	(4)	(5)	(6)
Items	Unit	Formula	Unit cost of the item	Hour or weight or volume or test or	Sub total cost
				unit used for 1 HIV infected person	of the item
				during 9 months	(4 × 5)
Counselling					
Nurse	1 hour	(1 hour *salary/(20day*8hour)	X baht / hour	X hours	(X hour) * X baht/ hour
PLWA volunteer	1 hour	(1 hour *salary/(20day*8hour)	X baht / hour	X hours	(X hour) * X baht/ hour
Consultants					· · · · · · · · · · · · · · · · · · ·
Physician	1 hour	(1 hour *salary/(20day*8hour)	X baht / hour	X hours	(X hour) * X baht/ hour
Medication			····		<u>. </u>
Anti-TB drug					
IN H	1 tablet	1 tablet = X baht	X Baht/ 1 tablet(100 mg)	3 tablets X 270 day = 810 tablets	X Baht/tab * 810 tablets
	(100 mg)				
Vit B6	1 tablet	1 tablet = X baht	X Baht/ 1 tablet(100 mg)	1 tablets X 270 day = 270 tablets	X Baht/tab * 270 tablets
	⁼ (100 mg)				

(1)	(2)	(3)	(4)	(5)	(6)
Items	Unit	Formula	Unit cost of the item	Hour or weight or volume or test or	Sub total cost
				unit used for 1 HIV infected person	of the item
				during 9 months	(4 X 5)
Treating drug from side effect of	f INH				
Consultant(Physician)	1 hour	(1 hour *salary/(20day*8hour)	X baht / hour	X hours	(X hour) * X baht/ hour
Laboratory (up to side effect)	1 test	1 test = X baht	X baht / test	X test	(X test) * X baht / test
Medication (up to side effect)	1 tablet (x mg)	1 tablet(x mg) = X baht	X Baht/ 1 tablet(x mg)	X tablet(x mg)	X tablet(x mg) *
					X Baht/ 1 tablet(x mg)
Laboratory					
Sputum microscope	1 slide	1 slide = X baht	X baht / slide	3 slides * 2 times = 6 slides	(X baht) / slide * 6 slides
Sputum culture	1 specimen	1 specimen = X baht	X baht / specimen	1 specimen	(X baht) / specimen
ні∨	1 test	1 test = X baht	X baht / test	1 test	X baht / test
SGOT	1 test	1 test = X baht	X baht / test	X tests	(X tests) * X baht / test
Bilirubine	1 test	1 test = X baht	X baht / test	X tests	(X tests) * X baht / test
Tuberculin Skin Test (TST)	1 test	1 test = X baht	X baht / test	1 test	X baht / test

(1)	(2)	(3)	(4)	(5)	(6)
tems	Unit	Formula	Unit cost of the item	Hour or weight or volume or test or	Sub total cost
				unit used for 1 HIV infected person	of the item
				during 9 months	(4 X 5)
Managing for patient loss follow L	qı				
Nurse	1 hour	(1 hour *salary/(20day*8hour)	X baht / hour	X hours	(X hour) * X baht/ hour
Driver	1 hour	(1 hour *salary/(20day*8hour)	X baht / hour	X hours	(X hour) * X baht/ hour
/ehicle's operation & maintenance	1 day	Fuel+ lubricans+ batteries, insurance+registertion fees,etc. in 1 year 365 days	X baht / day	X day	(X day) * X baht / day
Total cost for 1 HIV infected person	on of INH regin	ien			Σ×
Average cost of HIV infected pers	son of INH regi	men in program = $\sum x1 + \sum x2 + \sum x^2$	$+ \sum x_3 + \sum x_4 \dots + \sum x_4$, xn	
			Ν		
		N= numbe	er of patient in program		

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CURRICULUM VITAE

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Education and Training	

June, 2000	Introductory Course on Field Epidemiology,
	International Field Epidemiology Training Program
	(FETP), Ministry of Public Health Thailand.
March 1992	Bachelor of Nursing Science, Faculty of Nursing,
	Chiang Mai University, Chiang Mai, Thailand G.P.A.
	2.97

March 1988High School, Samakkee Vittayakhom School,Chiang Rai, Thailand G.P.A. 3.6

Professional Experiences

August 1998-present

Research Coordinator,

TB/HIV Research Project-Thailand, An international collaborative research project under the

control of the Research Institute of Tuberculosis (RIT), Japan and the Ministry of Public Health, Thailand. (Coordinating research activities. The design, implementation, analysis and writing of the research are integral to this position, under the supervision of Dr.Hideki Yanai and Dr.Pathom Sawanpanyalert)

March 1998-July 1998Pattaya International Hospital, Pattaya city,
Chonburi, Thailand
(Staff nurse in the In-Patient Department: medical,
surgical, pediatric and obstretic and gynecological)

April,1997-Feb 1998Becton&Dickenson Co.Ltd., Thailand
(Medical sale representative in northern provinces,
Thailand. Experienced in hospital purchasing policy on
pharmaceutical products, purchasing behaviours of the

hospitals and health care professionals, pharmaceutical product marketing, negotiation skills, lobbying)

April,1993 – Mar 1997Bangkok General Hospital, Bangkok, Thailand
(Staff nurse in cardiac care unit at the private Hospital in
part of Bangkok Heart institute of Bangkok General
Hospital. Skills and experiences included caring for
patients with conditions such as myocardial infarction,
congestive heart failure, thrombolytic therapy, temporary
and percutaneous transluminal angioplasty, automatic
implantable cardiverter-defibrillator, and also caring for
the patient who underwent open and closed heart surgery
such as coronary artery bypass graft(CABG),
valvulotomy, closure of septal defects and vascular
surgery.)

 Mar,1992 - Mar ,1993
 Phattaravej Hospital, Pichit, Thailand

 (Pioneer staff nurse in the intensive care unit at the major

 hospital in Pichit. Responsibility included developing the

 services and administrative system. Experiences included

 neurological and neurosurgical care.)

 References

Hideki Yanai, MD, Dr.PH, Project Manager, TB/HIV Research Project (Thailand-Japan collaboration) The Research Institute of Tuberculosis, JATA, Tokyo, Japan.

Surachai Piyaworawong,MD Mae Chan Hospital,Chiang Rai, Thailand.

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Saksoong P, Sawanpanyalert P, Piyawonrawong S, Moolphate S, Akarasewi P, Supawitkul S, Yanai H. Setting up Cohort Follow-up System for Drug Users: A Need for Health Care Strengthening. 5th Congress on AIDs in Asia and the Pacific,

Kalalumpur, October 22-26, 1999(Oral Abstract 612/TCD12-05)