

GENEVA FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH

NATIONAL UNIVERSITY FOR HEALTH SCIENCES – VIENTIANE, LAO PDR

RESEARCH METHODOLOGY for REPRODUCTIVE HEALTH

3 weeks coursework, 7 weeks research proposal development (progress report presented every two weeks), 2 weeks for statistical analysis.

Week 1: October 3-7, 2011

Time	Topic	Hours	Lectures
Monday 03/10/2011			
08:30-10:00	Opening Ceremony Participant Orientation (UHS, MOH, GFMER)		
10:00-10:15	Coffee break		
10:15-11:45	Reproductive health policies	1h30	Dr. Robert Thomson, GFMER
Lunch			
13:30-15:00	Course objectives Teaching and learning methodologies	1h30	Dr. Robert Thomson, GFMER
15:00-15:15	Coffee break		
15:15-16:15	Teaching and learning methodologies (Cont.)	1h	Dr. Robert Thomson, GFMER
Tuesday 04/10/2011			
08:30-10:00	Maternal mortality reduction in Lao PDR (National Skilled Birth Attendance development plan, National Emergency Obstetric Care Training, Maternal Death review)	1h30	Dr. Alongkone Phengsavanh, UHS
10:00-10:15	Coffee break		
10:15-11:45	Maternal mortality reduction in Lao PDR (National Skilled Birth Attendance development plan, National Emergency Obstetric Care Training, Maternal Death review) cont.	1h30	Dr. Alongkone Phengsavanh, UHS
Lunch			
13:30-15:00	Maternal neonatal and child health package in Lao PDR	1h30	Dr. Manisone Oudom MCC
15:00-15:15	Coffee break		
15:15-16:15	Maternal and child health policies in Lao PDR	1h	Dr. Manisone Oudom, MCC

Wednesday 05/10/2011			
08:30-10:00	Concepts of reproductive health and contraception	1h30	Dr. Alongkone Phengsavanh, UHS
10:00-10:15	Coffee break		
10:15-11:45	Concepts of reproductive health and contraception Cont.	1h30	Dr. Alongkone Phengsavanh, UHS
Lunch			
13:30-15:00	Specificity of adolescent population research	1h30	Dr. Robert Thomson, GFMER
15:00-15:15	Coffee break		
15:15-16:15	Specificity of adolescent population research Cont.	1h	Dr. Robert Thomson, GFMER
Thursday 6/10/2011			
08:30-10:00	Interpersonal communication and narrative methods in reproductive health research	1h30	Dr. Robert Thomson, GFMER
10:00-10:15	Coffee break		
10:15-11:45	Interpersonal communication and narrative methods in reproductive health research Cont.	1h30	Dr. Robert Thomson, GFMER
Lunch			
13:30-15:00	Reproductive health of migrant workers	1h30	Dr. Khamsay Chanthavisouk, MCHH
15:00-15:15	Coffee break		
15:15-16:15	Reproductive health of migrant workers Cont.	1h	Dr. Khamsay Chanthavisouk MCHH
Friday 7/10/2011			
08:30-10:00	Access to quality information and care	1h30	Dr. Khamsay Chanthavisouk MCHH
10:00-10:15	Coffee break		
10:15-11:45	Access to quality information and care Cont.	1h30	Dr. Khamsay Chanthavisouk MCHH
Lunch			
13:30-15:00	Lao government policies for delivery cases and under five treatment and care	1h30	Dr. Manisone Oudom, MCC
15:00-15:15	Coffee break		
15:15-16:15	Lao government policies for delivery cases and under five treatment and care Cont.	1h	Dr. Manisone Oudom, MCC

Week 2: October 10-14, 2011

Time	Topic	Hours	Lectures
Monday 10/10/2011			
08:30-10:00	Introduction to epidemiology	1h30	Dr. Alongkone Phengsavanh , UHS
10:00-10:15	Coffee break		
10:15-11:45	Introduction to epidemiology Cont	1h30	Dr. Alongkone Phengsavanh, UHS
Lunch			
13:30-15:00	Introduction to research methodology (Problem identification, research objectives, hypothesis in MCH and RH)	1h30	Dr. Sengchan Kounnavong, NIOPH
15:00-15:15	Coffee break		
15:15-16:15	Introduction to research methodology (Problem identification, research objectives, hypothesis in MCH and RH) Cont.	1h	Dr. Sengchan Kounnavong, NIOPH
Tuesday 11/10/2011			
08:30-10:00	Measurement in epidemiology (Frequency, association impacts)	1h30	Dr. Mayfong Mayxay, UHS
10:00-10:15	Coffee break		
10:15-11:45	Measurement in epidemiology (Frequency, association impacts) Cont.	1h30	Dr. Mayfong Mayxay, UHS
Lunch			
13:30-15:00	Vital statistics	1h30	Dr. Keonakhone Huamboun, NIOPH
15:00-15:15	Coffee break		
15:15-16:15	Vital statistics Cont.	1h	Dr. Keonakhone Huamboun, NIOPH
Wednesday 12/10/2011			
08:30-10:00	Error in epidemiology (Systematic and random error)	1h30	Dr. Alongkone Phengsavanh, UHS
10:00-10:15	Coffee break		
10:15-11:45	Error in epidemiology (Systematic and random error) Cont.	1h30	Dr. Alongkone Phengsavanh, UHS
Lunch			
13:30-15:00	Screening and diagnostic testing	1h30	Dr. Alongkone Phengsavanh, UHS
15:00-15:15	Coffee break		
15:15-16:15	Screening and diagnostic testing Cont.	1h	Dr. Alongkone Phengsavanh, UHS

Thursday 13/10/2011			
08:30-10:00	Literature review	1h30	Dr. Mayfong Mayxay, UHS
10:00-10:15	Coffee break		
10:15-11:45	Literature review Cont.	1h30	Dr. Mayfong Mayxay, UHS
Lunch			
13:30-15:00	Reference manager and endnote	1h30	Dr. Daovieng, NIOPH
15:00-15:15	Coffee break		
15:15-16:15	Reference manager and endnote Cont.	1h	Dr. Daovieng, NIOPH
Friday 14/10/2011			
08:30-10:00	Data and variables, population sampling	1h30	Dr. Visanou Hansana, UHS
10:00-10:15	Coffee break		
10:15-11:45	Data and variables, population sampling Cont.	1h30	Dr. Visanou Hansana, UHS
Lunch			
13:30-15:00	Sample size calculation	1h30	Dr. Visanou Hansana, UHS
15:00-15:15	Coffee break		
15:15-16:15	Sample size calculation Cont.	1h	Dr. Visanou Hansana, UHS

Week 3: October 17-21, 2011

Time	Topic	Hours	Lectures
Monday 17/10/2011			
08:30-10:00	Study design I (Descriptive studies) UHS	1h30	Dr. Alongkone Phengsavanh,
10:00-10:15	Coffee break		
10:15-11:45	Study design I (Descriptive studies) Cont. UHS	1h30	Dr. Alongkone Phengsavanh,
Lunch			
13:30-15:00	Study design II (Cohort and case control)	1h30	Dr. Visanou Hansana, UHS
15:00-15:15	Coffee break		
15:15-16:15	Study design II (Cohort and case control) Cont.	1h	Dr. Visanou Hansana, UHS
Tuesday 18/10/2011			
08:30-10:00	Study design III (Intervention studies: community trial and clinical trial)	1h30	Dr. Mayfong Mayxay, UHS
10:00-10:15	Coffee break		
10:15-11:45	Study design III (Intervention studies: community trial and clinical trial) Cont.	1h30	Dr. Mayfong Mayxay, UHS
Lunch			
13:30-15:00	Research ethics (How to write consent form, patient information sheet, ethical issues submission)	1h30	Dr. Alongkone Phengsavanh, UHS
15:00-15:15	Coffee break		
15:15-16:15	Research ethics (How to write consent form, patient information sheet, ethical issues submission) Cont.	1h	Dr. Alongkone Phengsavanh, UHS
Wednesday 19/10/2011			
08:30-10:00	How to write research proposal	1h30	Dr. Alongkone Phengsavanh, UHS
10:00-10:15	Coffee break		
10:15-11:45	How to write research proposal Cont.	1h30	Dr. Alongkone Phengsavanh, UHS
Lunch			
13:30-15:00	How to prepare for data collection	1h30	Dr. Daovieng, NIOPH
15:00-15:15	Coffee break		
15:15-16:15	How to prepare for data collection Cont.	1h	Dr. Daovieng, NIOPH

Thursday 20/10/2011			
08:30-10:00	How to approach research funding agencies	1h30	Dr. Serge Doussantousse, SERC
10:00-10:15	Coffee break		
10:15-11:45	How to write research grant	1h30	Dr. Serge Doussantousse, SERC
	Lunch		
13:30-15:00	Qualitative methods	1h30	Dr. Vanphanom Sychareun,UHS Dr. Sysavanh Phommachan, UHS
15:00-15:15	Coffee break		
15:15-16:15	Qualitative methods Cont.	1h	Dr. Vanphanom Sychareun,UHS Dr. Sysavanh Phommachan, UHS
Friday 21/10/2011			
08:30-10:00	Preparation of data collection, questionnaire construction	1h30	Dr. Daovieng, NIOPH
10:00-10:15	Coffee break		
10:15-11:45	Preparation of data collection, questionnaire construction Cont.	1h30	Dr. Daovieng, NIOPH
	Lunch		
13:30-15:00	Community methods and community diagnosis	1h30	Dr. Vanphanom Sychareun,UHS Dr. Sysavanh Phommachan, UHS
15:00-15:15	Coffee break		
15:15-16:15	Community methods and community diagnosis	1h	Dr. Vanphanom Sychareun,UHS Dr. Sysavanh Phommachan, UHS

SERC : Social Environment Research Consultants

NIOPH : National Institute of Public Health

UHS : National University of Health Sciences

MCC : Mother and Child Center

MCHH : National Mother and Child Hospital

Week 4-10: Development of research proposal

Week 11:

Time	Topic	Hours	Lectures
Monday			
08:30-10:00	Introduction of Epi data	1h30	Mr. Kongmany Chaleunvong, UHS
10:00-10:15	Coffee break		
10:15-11:45	Introduction of Epi data Cont.	1h30	Mr. Kongmany Chaleunvong, UHS
Lunch			
13:30-15:00	Introduction to STATA Software	1h30	Mr. Kongmany Chaleunvong, UHS
15:00-15:15	Coffee break		
15:15-16:15	Introduction to STATA Software Cont.	1h	Mr. Kongmany Chaleunvong, UHS
Tuesday			
08:30-10:00	Descriptive statistic, Normal distribution test Measurement of central tendency (Mean, median, mode, SD, CI, P value, ect)	1h30	Mr. Kongmany Chaleunvong, UHS
10:00-10:15	Coffee break		
10:15-11:45	Descriptive statistic, Normal distribution test Measurement of central tendency (Mean, median, mode, SD, CI, P value, ect) Cont.	1h30	Mr. Kongmany Chaleunvong, UHS
Lunch			
13:30-15:00	Measurement of association Chi-square test, Student T test Compare means, compare proportion	1h30	Mr. Kongmany Chaleunvong, UHS
15:00-15:15	Coffee break		
15:15-16:15	Measurement of association Chi-square test, Student T test Compare means, compare proportion Cont.	1h	Mr. Kongmany Chaleunvong, UHS
Wednesday			
08:30-10:00	Simple linear regression	1h30	Mr. Kongmany Chaleunvong, UHS
10:00-10:15	Coffee break		
10:15-11:45	Multiple linear regression	1h30	Mr. Kongmany Chaleunvong, UHS
Lunch			
13:30-15:00	Multiple logistic regression	1h30	Mr. Kongmany Chaleunvong, UHS
15:00-15:15	Coffee break		
15:15-16:15	Multiple logistic regression Cont.	1h	Mr. Kongmany Chaleunvong, UHS

Thursday			
08:30-10:00	ANOVA, ANCOVA	1h30	Mr. Kongmany Chaleunvong, UHS
10:00-10:15	Coffee break		
10:15-11:45	ANOVA, ANCOVA Cont.	1h30	Mr. Kongmany Chaleunvong, UHS
	Lunch		
13:30-15:00	Non parametric test	1h30	Mr. Kongmany Chaleunvong, UHS
15:00-15:15	Coffee break		
15:15-16:15	Non parametric test Cont.	1h	Mr. Kongmany Chaleunvong, UHS
Friday			
08:30-10:00	Qualitative analysis	1h30	Dr. Vanphanom Sychareun, UHS
10:00-10:15	Coffee break		
10:15-11:45	Qualitative analysis Cont.	1h30	Dr. Vanphanom Sychareun, UHS
		Lunch	
13:30-15:00	Qualitative analysis Cont.	1h30	Dr. Vanphanom Sychareun, UHS
15:00-15:15	Coffee break		
15:15-16:15	Qualitative analysis Cont.	1h	Dr. Vanphanom Sychareun, UHS

Week 12, data analysis workshop and report writing

	<i>Morning: 08:30 – 11.30</i>	<i>Afternoon: 13.30 – 16.00</i>
<i>Monday</i>	Preparation for proposal presentation	Preparation for proposal presentation
<i>Tuesday</i>	Preparation for proposal presentation	Preparation for proposal presentation
<i>Wednesday</i>	Preparation for proposal presentation	Preparation for proposal presentation
<i>Thursday</i>	Preparation for proposal presentation	Preparation for proposal presentation
<i>Friday</i>	Preparation for proposal presentation	Preparation for proposal presentation

Faculty Members: Geneva Foundation for Medical Education and Research

Yanick-M. Ebinger, Project Manager Lao PDR Collaboration (YE), Robert Thomson, MSc, Clinical Psychologist (RT)

Faculty Members: National University of Health Sciences , Lao PDR