คณะทันตแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่ ร่วมกับ

The Borrow Milk Foundation ประเทศสหราชอาณาจักร และ ชมรมทันตสาธารณสุขแห่งประเทศไทย ขอเชิญเข้าร่วมการอบรมเชิงปฏิบัติการนานาชาติ เรื่อง

International training workshop on data collection and analysis of the total Fluoride intake and urine excretion of young children in Chiang Mai, Thailand

30 สิงหาคม – 8 กันยายน 2553 ณ คณะทันตแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่

$\frac{\text{FLUORIDE URINARY EXCRETION STUDIES: INTERNATIONAL TRAINING WORKSHOP}}{\text{Chiang Mai, August } 30^{\text{th}}\text{-September } 8^{\text{th}} \text{ 2010.}}$

Day/time	Theoretical	Laboratory	Field training
	Presentations ¹	training	
30/August	Urinary excretion studies.		
9:00-10:15	Usefulness and		
	limitations. Why are these		
	studies necessary? Why		
	such type of study should		
	be useful in Chiang Mai?		
10:15-10:30	Questions-Comments		
	10:30- 10:45 B	reak	
10:45 – 12:30	Review of previous		
	studies. Suggested		
	literature.		
	"Quick Lunc	h"	
13:30-14:30	Experimental design of		
	urinary fluoride excretion		
	studies. Preparation of		
	this type of studies		
14:30 – 14:45	Questions-Comments		
14:45-15:00 Break			
15:00 – 16:00	Practical		
	recommendations.		
	Typical spreadsheets.		
16:00 – 16:30	Closing discussion		

¹ The attendance of laboratory staff and field coordinators is strongly encouraged.

Day/time	Theoretical	Laboratory	Field training
	Presentations	training	
31/August	Basic concepts on the		Field coordinators
9:00-10:15	Fluoride Selective		visit the field to meet
	electrode (FISE). Nernst		with parents and
	equation. Why using a		caregivers
	TISAB solution?		Confirm the meeting
	Is it important to		time and meeting
	determine blank fluoride		point
10.15.10.00	concentration?		
10:15-10:30	Questions-Comments	<u> </u>	
	10:30- 10:45 B	reak	
10:45 – 12:15	Direct calibration. Quality		
	control of FISE. Using		
	different number of		
	standards for calibration.		
	Assessment of fluoride		
	concentration in water		
	and urine.		
12:15 – 12:30	Questions-Comments		
	"Quick Lunc		
13:30-14:45		Experimental:	
		Calibration	
		curves.	
		Assessment of	
		fluoride in water	
		and urine ²	
	14:45-15:00 B	,	
15:00 – 16:30		Experimental	
		work continued	
16:30 – 17:30	Technical discussion on		
	experimental session		

² It should be useful to have real water samples from different rural sites near Chiang Mai. Particularly, samples from the community where the pilot study is going to be held should be necessary. Urine samples could be kindly provided by the participants.

Day/time	Theoretical Presentations	Laboratory training	Field training ³	
Wed September 1 st 7am – 6 pm			Diurnal Pilot fluoride urinary excretion study.	
	"Quick Lunc	h"		
		Urinary pH measurement.	Different samples collection. Children management.	
		Urinary and water volume measurement		
			Conditioning and transportation of samples to Chiang Mai laboratory. Samples Freezing	

³ The cooperation of two English speaking laboratory staff is useful and necessary at least in the afternoon.

Day/time	Theoretical	Laboratory	Field training
	Presentations	training	
Thurs.September 2 nd .	Fluoride concentration		
9:00 – 10:15	assessment in toothpaste		
	and solid foods. Use of		
	the HDMS (diffusion		
	technique)		
10:15-10:30	Questions-Comments		
	10:30- 10:45 B	reak	
10:45 – 12:15		Experimental:	
		preparation of	
		standard	
		solutions and	
		samples for the	
		HDMS	
		technique.	
	"Quick Lunc	h"	
13:30-14:45		Fluoridated milk	
		analysis using	
		HMDS	
		technique	
	14:45-15:00 B	reak	
15:00 – 16:30		Fluoridated milk	
		analysis using	
		HMDS	
		technique	
16:30 – 17:30	Technical discussion on		
	experimental session		

Day/time	Theoretical	Laboratory	Field training	
	Presentations	training		
Friday September 3rd.		Measurement of		
9:00 – 10:30		standards and		
		F-milk samples		
		by the HDMS		
		technique		
	10:30- 10:45 Br	eak		
10:45 – 12:15		FISE		
		preparation for		
		analysis of F-		
		milk using the		
		direct calibration		
		technique (2-		
		point		
		calibration).		
	"Quick Lunch			
13:30 – 15:00		Experimental		
		work continued		
	15:00-15:15Break			
15:15 – 16:30		Using Excel		
		spreadsheets.		
		Preparation of		
		the samples		
		collected in the		
		pilot study for		
		analysis on next		
		Monday Sept 6 th .		
16:30 – 17:30	Technical discussion on			
	experimental session			

Day/time	Theoretical Presentations	Laboratory training	Field training
Monday September 6th.	Update of the experimental work.		
9:00 - 10:15	Questions and discussion		
	10:15- 10:30 Break		
10:30 – 12:15		Food homogenate	
		(from the pilot study)	
		and related materials	
		preparation	
	"Quick Lunch"		
13:30 – 15:00		Experimental work	
		continued	
	15:00-15:15Break		
15:15 – 16:30		Experimental work	
		continued	
16:30 – 17:30	Technical discussion on		
	experimental session		

Day/time	Theoretical Presentations		Laboratory training	Field training
Tuesday September 7th.			Analysis of the	
9:00 - 10:45			previously diffused	
			samples	
10:45- 11:00 Break				
11:00 – 12:30			FISE calibration for the	
			analysis of water and	
			urine samples from the	
			pilot study	
"Quick Lunch"				
13:30 – 15:00			Experimental work	
			continued	
15:00-15:15Break				
15:15 – 16:30			Input and calculations	
			of the data from the	
			pilot study. Final	
			assessments.	
16:30 – 17:30	Technical discussion	on		
	experimental session			

Day/time	Theoretical Presentations	Laboratory training	Field training
WednesdaySeptember 8th.	Summing up and final discussion		
9:00 – 10:45			
10:45- 11:00 Break			
11:00 – 12:00	Summing up and final discussion		
	(cont.)		
"Quick Lunch"		•	