Nagasaki-Thammasat University Diploma Course on Research & Development of Products to Meet Public Health Needs

Organized by

Nagasaki Institute of Tropical Medicine, Nagasaki University, Japan and Faculty of Allied Health Sciences, Thammasat University, Thailand in cooperation with

Chulalongkorn University, and Khon Kaen University, Thailand Supported by

Nagasaki Institute of Tropical Medicine, Nagasaki University, Japan, Japanese Association of Pharmaceutical Medicine (JAPHMED), Japan and

UNICEF-UNDP- World Bank - WHO Special Programme for Research and Training in Tropical Diseases (WHO/TDR)

28 October – 2 December, 2008

Course Directors:

Professor Dr. Kenji Hirayama Dean, Nagasaki Institute of Tropical Medicine Nagasaki University, Nagasaki Japan

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Professor Dr. Kesara Na-Bangchang Director, Graduate Program in Biomedical Sciences, Thammasat University Deputy Dean, Faculty of Allied Health Sciences, Thammasat University Thailand

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Course Coordinators:

Associate Professor Dr. Wongwiwat Tassaneeyakul, Faculty of Pharmaceutical Sciences, Khon Kaen University, Thailand

Associate Professor Dr. Wichittra Tassneeyakul, Faculty of Medicine, Khon Kaen University, Thailand

Assistant Professor Dr. Ratchaneewan Aunpad, Faculty of Allied Health Sciences, Thammasat University, Thailand

Course Facilitator:

Dr. Wanna Chaijaroenkul, Faculty of Allied Health Sciences, Thammasat University, Thailand

Dr. Veerachai Eursitthichai, Faculty of Allied Health Sciences, Thammasat University, Thailand

Venue:

Faculty of Allied Health Sciences, Thammasat University (Rangsit Campus)

Registration Fee:

Foreign participants: 1,500 USD for the whole course or 100 USD /day

(including 2 tea breaks and lunch)

Participants from International Organization in Thailand: 1,200 USD for the whole course or 80 USD/day

(including 2 tea breaks and lunch)

Thai participants: 23,200 Baht for the whole course (20% discount) or 1,000 Baht /day* (including 2 tea breaks and lunch)

No.	Participants Category	Whole	1 Day	Note*
		course		
1.	Foreign	1,500 USD	100 USD	-
2.	International Organization in	1,200 USD	80 USD	-
	Thailand			
3.	Thai	23,200 Baht	-	-
4.	Thai (Module 1 or 4 only)	-	-	1,000 Baht
5.	Thai (Module 2 only)	-	-	14,000 Baht
6.	Thai (Module 3 only)	-	-	6,000 Baht
7.	Thai (Module 5 only)	-	-	3,000 Baht
8.	Thai (Module 6 or 7 only)	-	-	2,000 Baht

Registration deadline: October 10, 2008

(We also accept onsite registration however registration kit material including tea breaks and lunch are not guaranteed)

Accommodation: On-campus accommodation is provided by Thammasat Property Management Office at Asian Games Village and Institute of East Asian Studies. Accommodation charges at Asian Games Village and Institute of East Asian Studies is 500 Baht/day and 600 Baht/day, respectively. Those who wish to book accommodation through us are advised to contact as soon as possible otherwise it may be difficult for us to arrange accommodation at the last moment.

Module 1: Course Orientation

28 October, 2008 Tuesday

0900-0915	1.1 Welcome address Professor Dr. Surapon Nitikraipoj, Rector, Thammasat University, Thailand Professor Dr. Vithoon Viyanant, Dean, Faculty of Allied Health Sciences, Thammasat University Professor Dr. Kenji Hirayama, Dean, Nagasaki Institute of Tropical Medicine Nagasaki University, Nagasaki, Japan
0915-0930	1.2 Objective of the course and expectation Professor Dr. Kesara Na-Bangchang, Course Director & Director, Graduate Program in Biomedical Sciences, Thammasat University Dr. Janis Lazdins, WHO/TDR, Geneva
0930-0945	1.3 Introduction of participants
0945-1030	1.4 Overview of product research and development Dr. Janis Lazdins, WHO/TDR, Geneva
1030-1100	1.5 The nature of disease and the purpose of therapy <i>Prof. Dr. Chitr Sitthi-amorn, Chulalongkorn University, Thailand</i>
1100-1115	Tea break
1115-1200	1.6 Key medical and public health issues, and the need for new products <i>Dr. Janis Lazdins, WHO/TDR, Geneva</i>
1200-1300	Lunch
1300-1400	1.7 Discovery research and product development and the different approaches required for each of them <i>Dr. Janis Lazdins, WHO/TDR, Geneva</i>
1400-1500	 1.8 Stakeholders in Product Research and Development Large, medium and small pharmaceutical companies Academic institutions Clinical Research Organization Biotech Regulatory Prof. Dr. Chitr Sitthi-amorn, Chulalongkorn University, Thailand
1500-1600	1.9 Drug targets identification and validation in TB Associate Professor Dr. Prasit Palittapongarnpim, BIOTEC, Thailand
1600-1630	Tea break
1630-1700	1.10 Stakeholders in Product Research and Development (Discussion) Prof. Dr. Chitr Sitthi-amorn, Chulalongkorn University, Thailand

Module 2: Drug Discovery and Development

Drug Discovery

0900-1030 2.1 The drug discovery process: general principles and some case histories

29 October, 2008 Wednesday

0900-1030	2.1 The drug discovery process, general principles and some case instories
	Dr. John Cashman, Director, Human BioMolecular Research Institute (HBRI), San Diego, California, USA.
1030-1100	Tea Break
1100-1230	2.2 The role of genomics and bioinformatics
	Associate Professor Dr. Wasun Chantratita, Ramathibodi Hospital, Mahidol University, Thailand
1230-1330	Lunch
1330-1530	2.3 Pharmacology: The role in drug discovery
	Associate Professor Dr. Krongtong Yoovathaworn, Mahidol University,
1530-1545	Thailand Tea break
1545-1645	2.4 High-throughput screening
	Dr. John Cashman, Director, Human BioMolecular Research Institute (HBRI), San Diego, California, USA.
1645-1745	2.5 The role of chemistry in drug discovery Hit/lead generation and optimization
	Dr. John Cashman, Director, Human BioMolecular Research Institute (HBRI), San Diego, California, USA.
30 October,	2008 Thursday
0900-1030	2.6 Biopharmaceuticals
	Associate Professor Dr. Wacharee Limpanathikul, Faculty of Medicine, Chulalongkorn University
1030-1100	Tea break
1100-1230	2.7 Introduction to pharmacokinetics & issues in drug discovery Professor Dr. Kesara Na-Bangchang, Course Director & Director, Graduate Program in Biomedical Sciences, Thammasat University
1230-1330	Lunch
1330-1500	2.8 Drug discovery in CNS diseases

(HBRI), San Diego, California, USA.

1500-1530

Tea break

Dr. John Cashman, Director, Human BioMolecular Research Institute

1530-1700 2.9 Publications, IPR and patents in drug discovery

Dr. John Cashman, Director, Human BioMolecular Research Institute (HBRI), San Diego, California, USA.

Chemistry, Manufacturing and Control (CMC)

31 October, 2008 Friday

2.10 Introduction to CMC Associate Professor Dr. Satit Puttipipatkhachorn, Faculty of Pharmacy, Mahidol University
2.11 Formulations of drug products Associate Professor Dr. Satit Puttipipatkhachorn, Faculty of Pharmacy, Mahidol University
Tea Break
2.12 Methods for determination of concentrations in various media by means of spectrometric methods, HPLC, and biological methods Associate Professor Dr. Prapin Wilairat, Faculty of Sciences, Mahidol University
Lunch 2.13 Stability for drug substance and drug product Associate Professor Dr. Detpon Preechagoon, Faculty of Pharmaceutical Sciences, Khon Kaen University
Tea break
2.14 Examples: Formulations and stability of drugs and health products Associate Professor Dr. Satit Puttipipatkhachorn, Faculty of Pharmacy, Mahidol University
2.14 (Cont.) Examples: Formulations and stability of drugs and health products Associate Professor Dr. Detpon Preechagoon, Faculty of Pharmaceutical Sciences, Khon Kaen University

1 November, 2008 Saturday (Video Conference from Nagasaki University, Japan)

0900-1000 2.15 Development of specification

Professor Dr. Hiroaki Nagaoka, Faculty of Health Management,

Nagasaki International University, Japan

1000-1100 2.16 Quality assurance/quality control

Professor Dr. Hiroaki Nagaoka, Faculty of Health Management,

Nagasaki International University, Japan

1100-1115 Tea break

1115-1230	2.17 Regulatory (with an example of a drug CMC requirement) Professor Dr. Hiroaki Nagaoka, Faculty of Health Management, Nagasaki International University, Japan
1230-1330	Lunch
1330-1400	2.18 Naming the New Chemical Entity (NCE) Professor Dr. Hiroaki Nagaoka, Faculty of Health Management, Nagasaki International University, Japan
1400-1530	2.19 Synthesis of active pharmaceutical ingredient <i>Professor Dr. Hiroaki Nagaoka, Faculty of Health Management,</i>
	Nagasaki International University, Japan

3 November, 2008 Monday

900-1000	Participants' Report on Drug Discovery
1300-1600	2.20 Visit Clinical Site (Dr. Yupin Lawanprasert)

Pre-clinical Development

Pharmacological development

4 November, 2008 Tuesday

0900-1100	2.21 Pharmacological data in new drug application Associate Professor Dr. Nongluck Sookvanichsilp, Faculty of Pharmacy, Mahidol University
1100-1130	Tea break
1130-1230	2.22 Methods in pharmacological R&D-I Associate Professor Dr. Chuthamanee Suthisisang, Faculty of Pharmacy, Mahidol University
1230-1330	Lunch
1330-1430	2.23 Methods in pharmacological R&D-II Associate Professor Dr. Chuthamanee Suthisisang, Faculty of Pharmacy, Mahidol University
1430-1530	2.24 The role of drug metabolism in R&D
	Dr. John Cashman, Director, Human BioMolecular Research Institute (HBRI), San Diego, California, USA.
1530-1600	Tea break
1600-1730	2.25 Discussion

Dr. John Cashman, Director, Human BioMolecular Research Institute (HBRI), San Diego, California, USA.

Toxicology

5 November, 2008 Wednesday

0900-1000	2.26 Principles of toxicology
	Professor Dr. Amnuay Thithapandha, Mahidol University, Thailand
1000-1100	2.27 Toxicological tests: <i>in vitro & in vivo</i> : acute, subacute, chronic, special organ toxicology, reproduction toxicology, teratogenicity, mutagenicity, carcinogenicity and toxicokinetic studies Associate Professor Dr. Wongwiwat Tassaneeyakul, Faculty of Pharmaceutical Sciences, Khon Kaen University, Thailand
1100-1130	Tea break
1130-1300	2.28 Scheduling of toxicological studies in the development plan, the registration requirements, human & animal pharmacology, the proposed clinical application and the forms of administration. Associate Professor Dr. Wongwiwat Tassaneeyakul, Faculty of Pharmaceutical Sciences, Khon Kaen University, Thailand
1330-1400	Lunch
1400-1500	2.29 Continuous monitoring of the correlation between new toxicological findings and the unwanted events observed in humans up till now. Associate Professor Dr. Wongwiwat Tassaneeyakul, Faculty of Pharmaceutical Sciences, Khon Kaen University, Thailand
1500-1530	Tea break
1530-1630	2.30 Transferability of the pharmacokinetic findings in animals to humans Investigating toxicological problems - practices and pitfalls Associate Professor Dr. Krongtong Yoovathaworn, Mahidol University, Thailand
1630-1700	Video: Animal facility from Nagasaki Institute of Tropical Medicine, Nagasaki University, Japan Prof. Dr. Kenji Hirayama, Director of the course, Institute of Tropical Medicine, Nagasaki University, Japan

6 November, 2008 Thursday

900-1200	2.31 Visit Siam Pharmaceutical Company (Dr. Yupin Lawanprasert)
1330-1630	2.32 Visit animal facility for medical research (Mahidol University, Salaya)

Clinical Development

Study design

7 November, 2008 Friday

0900-1030 2.33 Study design

- Possible study designs taking into account ethical aspects, indication, controls, patient population, location of the trial centers
- Trial design (parallel group design, cross over design, factorial design, group sequential design)
- Design techniques to avoid bias (blinding, randomization)

Associate Professor Dr. Jaranit Kaewkungwal, Faculty of Tropical Medicine, Mahidol University

1030-1100 Tea break

1100-1230 2.33 Study design (Cont.)

- Multi centers trials
- Type of comparison
- Outcome measurements

Associate Professor Dr. Jaranit Kaewkungwal, Faculty of Tropical Medicine, Mahidol University

1230-1330 Lunch

1330-1500 2.34 Statistical considerations

- Biostatistics in the planning phase (estimate of number of cases, randomization, statistical models, definition of end-points, planning of the subsequent evaluation)
- Statistical analysis plan
- Analysis sets: full analysis set, per protocol set, missing values and outliers

Associate Professor Dr. Jaranit Kaewkungwal, Faculty of Tropical Medicine, Mahidol University

1500-1530 Tea break

1530-1700 2.35 Statistical considerations (Cont.)

- Data transformation
- Method of statistical analysis (estimation, confidence intervals, hypothesis testing, evaluation of safety and tolerability)
- Statistical analysis report

Associate Professor Dr. Jaranit Kaewkungwal, Faculty of Tropical Medicine, Mahidol University

Clinical Trial

10 November, 2008 Monday

0900-1100	2.36 Ove	rview of	clinical	development

- Assessment of pre-clinical information
- Clinical development plan
- Application of pharmacokinetics and pharmacodynamics in drug development
- Dose selection and regimen

Professor Dr. Juntra Karbwang, TDR, World Health Organization, Switzerland

1100-1130 Tea break

1130-1200 2.37 The various investigational phases of clinical research (Phases I-IV)

Professor Dr. Juntra Karbwang, TDR, World Health Organization,

Switzerland

1200-1300 Lunch

1500-1530 Tea break

1530-1630 2.38 Pharmacogenomics

Associate Professor Dr. Wichittra Tassneeyakul, Faculty of Medicine, Khon Kaen Univerity, Thailand

11 November, 2008 Tuesday

0900-1030 2.39 Therapeutic exploratory (with example)

Professor Dr. Juntra Karbwang, TDR, World Health Organization, Switzerland

1030-1100 Tea Break

1100-1230 2.40 Safety monitoring and reporting in clinical trials

- Basic principles and evaluation of investigational results (Phase-I and early Phase-II), with a view to further Development
- Basic principles for decisions regarding further development or discontinuation of a development project

Dr. Kitima Yuthavong, PRIMA, Thailand

1230-1330 Lunch

1330-1500 2.41 Role of CRO in global drug development

1500-1530 Tea Break

1530-1700 2.42 Human pharmacokinetics:

- Clinical Application of PKs
- Special human-pharmacokinetic studies e.g. bioavailability studies of multiple-dose, interaction studies, pregnancy, liver disease *etc*.

Professor Dr. Kesara Na-Bangchang, Thammasat University, Thailand

Regulatory Issues

12 November, 2008 Wednesday

0900-1030	2.43 Regulatory aspects of clinical development
	Professor Dr. Masayuki Ikeda, Nagasaki University Graduate School of
	Medical Sciences , Nagasaki, Japan
1030-1100	Tea break
1100-1230	2.44 Special topics:
	Professor Dr. Masayuki Ikeda, Nagasaki University Graduate School of
	Medical Sciences , Nagasaki, Japan
1230-1300	Lunch
1330-1630	2.45 Visit Government Pharmaceutical Organization of Thailand (Dr. Vichai Chokevivat)

Traditional Medicine

13 November, 2008 Thursday

0900-1030	2.46 Introduction of Traditional Medicine: Alternative but rational approach Dr. Vichai Chokevivat, Chair, FERCAP Prof. Dr. Kiichiro Tsutani, Graduate School of Pharmaceutical Sciences, The University of Tokyo, Japan
1030-1100	Tea break
1100-1200	2.47 Guidance on herbal medicine Dr. Vichai Chokevivat, Chair, FERCAP Prof. Dr. Kiichiro Tsutani, Graduate School of Pharmaceutical Sciences, The University of Tokyo, Japan
1200-1300	Lunch
1300-1400	2.48 Regulation for traditional medicine development Dr. Vichai Chokevivat, Chair, FERCAP Associate Professor Dr. Pleumchitt Rojanapanthu, Faculty of Pharmacy, Mahidol University, Thailand
1400-1500	2.49 Example: Herbal medicine to modern medicine Associate Professor Dr. Pleumchitt Rojanapanthu, Faculty of Pharmacy, Mahidol University, Thailand
1500-1530	Tea break
1530-1700	2.50 Example of Clinical Drug development
	Associate Professor Dr. Pleumchitt Rojanapanthu, Faculty of Pharmacy, Mahidol University, Thailand

Module 3: Vaccine Development

Vaccine Discovery

14 November, 2008 Friday

0900-0930	3.1 Historical of vaccine Discovery Dr. Howard Engers, Armauer Hansen Research Institute (AHRI), Ethiopia
0930-1030	3.2 Overview of modern vaccine discovery Dr. Howard Engers, Armauer Hansen Research Institute (AHRI), Ethiopia
1030-1100	Tea break
1100-1200	3.3 Screening for antigens Professor Dr. Kenji Hirayama, Director of the course, Institute of Tropical Medicine, Nagasaki University, Japan
1200-1330	Lunch
1330-1430	3.4 Evaluating antigens Professor Dr. Kenji Hirayama, Director of the course, Institute of Tropical Medicine, Nagasaki University, Japan
1430-1500	Tea break
1500-1700	3.5 Vaccine discovery: Malaria Professor Dr. Kenji Hirayama, Director of the course, Institute of Tropical Medicine, Nagasaki University, Japan

15 November, 2008 Saturday

0900-1030	3.6 Adjuvant Dr. Howard Engers, Armauer Hansen Research Institute (AHRI), Ethiopia
1030-1100	Tea break
1100-1200	3.7 Alternatives to antigens: DNA vaccine, Live or attenuated pathogen <i>Dr. Howard Engers, Armauer Hansen Research Institute (AHRI), Ethiopia</i>
1200-1330	Lunch
1330-1430	3.8 Selection of development candidate and back-ups Dr. Howard Engers, Armauer Hansen Research Institute (AHRI), Ethiopia
1430-1500	Tea break
1500-1630	3.9 Efficacy, toxicity, route if immunization, price, stability, cold chain, Dr. Howard Engers, Armauer Hansen Research Institute (AHRI), Ethiopia

17 November, 2008 Monday

900-1200	3.10 Vaccine discovery: Liver flukes Dr. Hans Rudi Grams, Faculty of Allied Health Sciences, Thammasat University
1200-1300	Lunch
1300-1400	3.11 Visit Vaccine Discovery laboratory (Dr. Hans Rudi Grams and Dr. Veerachai Eurshittichai)

Antigen Development

18 November, 2008 Tuesday

0900-1100	 3.12 Antigen development History of vaccine development Down period –Try and error period The second period –Toxoid vaccine The 3rd period – Virus vaccine period The 4th period – Genetic engineering period
1100 1117	Dr. Nobuhiro Noro, Glaxo SmithKlein KK, Tokyo, Japan
1100-1115	Tea break
1115-1300	3.13 Process of vaccine production
	Dr. Nobuhiro Noro, Glaxo SmithKlein KK, Tokyo, Japan
1300-1400	Lunch
1400-1500	3.13 Process of vaccine production (continued)
	Dr. Nobuhiro Noro, Glaxo SmithKlein KK, Tokyo, Japan
1500-1600	3.14 Quality Assurance of Vaccine
	Dr. Nobuhiro Noro, Glaxo SmithKlein KK, Tokyo, Japan
1600-1615	Tea break
1615-1700	3.14 Quality Assurance of Vaccine (Continued)
	Dr. Nobuhiro Noro, Glaxo SmithKlein KK, Tokyo, Japan

Pre-Clinical Development

19 November, 2008 Wednesday

0900-1030	3.15 Safety assessment Toxicity test in animals: regional complications, systemic toxicity
	Dr. Nobuhira Noro, GSK, Tokyo, Japan
1030-1100	Tea break
1100-1230	3.16 Immunogenicity assessment
	Dr. Nobuhira Noro, GSK, Tokyo, Japan
1230-1330	Lunch
1330-1430	3.17 Regulatory
	Dr. Nobuhira Noro, GSK, Tokyo, Japan
1430-1445	Tea break
1445-1600	3.18 Example: Animal model used in pre-clinical studies
	Dr. Nobuhira Noro, GSK, Tokyo, Japan

Clinical Development

Overview

20 November 2008 Thursday

0900-1030	3.19 Assessment of pre-clinical information Dr. Howard Engers, Armauer Hansen Research Institute (AHRI), Ethiopia
1030-1100	Tea break
1100-1200	3.20 Clinical development plan
	Dr. Howard Engers, Armauer Hansen Research Institute (AHRI), Ethiopia
1200-1300	Lunch
1300-1430	3.21 Application of immunogenicity for vaccine development <i>Dr. Howard Engers, Armauer Hansen Research Institute (AHRI), Ethiopia</i>
1430-1500	Tea break
1500-1600	3.22 Dose selection and regimen Dr. Howard Engers, Armauer Hansen Research Institute (AHRI), Ethiopia
1600-1700	Participants' report on vaccine R&D

Module 4: Diagnostic Development

21 November, 2008 Friday

4.1 Discovery and development of diagnostic tools: Necessity assessment, Principles and technology selection Dr. Masato Sasaki, Roche Diagnostics KK, Tokyo, Japan
4.2 Prototype production and assessment Dr. Masato Sasaki, Roche Diagnostics KK, Tokyo, Japan
Tea break
4.3 Scale-up, manufacture and control Dr. Masato Sasaki, Roche Diagnostics KK, Tokyo, Japan
Lunch
4.4 Scale-up, manufacture and control (Cont.) Dr. Masato Sasaki, Roche Diagnostics KK, Tokyo, Japan
4.5 Development of kits Dr. Masato Sasaki, Roche Diagnostics KK, Tokyo, Japan
Tea break
4.6 Quality assurance/quality control: evaluation of efficacy after application <i>Dr. Masato Sasaki, Roche Diagnostics KK, Tokyo, Japan</i>
4.7 Clinical development: validate prototype, manufacture pilot lot, initiate clinical trial <i>Dr. Masato Sasaki, Roche Diagnostics KK, Tokyo, Japan</i>
4.8 Clinical development: Supply chain logistics and production, Statistical consideration, regulatory issues Dr. Masato Sasaki, Roche Diagnostics KK, Tokyo, Japan

Module 5: Post-registration Activities

24 November, 2008 Monday

0900-1200	5.1 Stakeholders to be involved in making product development work for the intended beneficiaries Prof. Dr. Chitr Sitthi-amorn, Chulalongkorn University, Thailand Dr. Kihito Takahashi, Japanese Association of Pharmaceutical Medicine (JAPHMED), Merck Banyu Pharma, Japan
1200-1300	Lunch
1300-1400	5.2 Public private partnership Professor Dr. Chitr Sitthi-amorn, Chulalongkorn University, Thailand
1400-1430	Tea break

1430-1530 5.3 Medicine access Problems and PPP
Professor Dr. Chitr Sitthi-amorn, Chulalongkorn University, Thailand
Mr. Kenji Toda, Senior Vice President, Government Relations, Tokyo,
Eisai Co., Ltd,

25 November, 2008 Tuesday

0900-1030	5.4 Improving the quality of new products in health systems: International network of rational use of drugs Professor Dr. Chitr Sitthi-amorn, Chulalongkorn University
1030-1045	Tea break
1045-1230	5.5 Post-marketing product vigilance Dr. Yupin Lawanprasert, Principal Scientific Advisor on Safety, Efficacy and Use of Medicines and Health Products, Thailand
1230-1330	Lunch
1330-1500	5.6 Intellectual Property Rights Protection in Developing Countries Dr. Yupin Lawanprasert, Principal Scientific Advisor on Safety, Efficacy and Use of Medicines and Health Products, Thailand
1500-1515	Tea Break

Module 6: Good Clinical Practice

Ethics in research and Ethics Committee

1515-1630 Parcipants's report on post registration activities

26 November, 2008 Wednesday

0900-1000	6.1 Ethics Codes and Guidelines Professor Dr. Christina Torres, FERCAP
1000-1100	6.2 Principles of Research Ethics Professor Dr. Christina Torres, FERCAP
1100-1115	Tea Break
1115-1230	6.3 Principles of Research Ethics - case studies Professor Dr. Christina Torres, FERCAP
1230-1400	Lunch
1400-1500	6.4 Research Methodologies and Ethical Issues in Traditional and Alternative Medicine Dr. Vichai Chokevivat, Chair, FERCAP

1500-1630 6.5 Research methodology and ethical issues, International study -Case studies Dr. Vichai Chokevivat, Chair, FERCAP

27 November, 2008 Thursday

0900-1030	6.6 Human Subject Protection and Ethics Committees Professor Dr. Christina Torres, FERCAP
1030-1100	Tea break
1100-1230	6.7 Human Subject Protection and Ethics Committees (Cont.) Professor Dr. Christina Torres, FERCAP
1230-1330	Lunch
1330-1430	6.8 Monitoring and Auditing Ethics Committee Professor Dr. Juntra Karbwang-Laothavorn, TDR/WHO Dr. Allan Johansen, Roche Products Pty limited, Australia
1430-1530	6.9 Data and Safety Monitoring Board (DSMB) Professor Dr. Juntra Karbwang-Laothavorn, TDR/WHO Dr. Allan Johansen, Roche Products Pty limited, Australia
1530-1545	Tea Break
1545-1630	6.10 Case studies Dr. Allan Johansen, Roche Products Pty limited, Australia Professor Dr. Juntra Karbwang-Laothavorn, TDR/WHO

Quality Standards

28 November, 2008 Friday

0900-0930	6.11 Concept of Good Clinical Practice Professor Dr. Juntra Karbwang, WHO/TDR, Geneva, Switzerland
0930-1230	6.12 Responsibilities: Sponsor, Investigators, IRB, Monitors, DSMB Professor Dr. Juntra Karbwang, WHO/TDR, Geneva, Switzerland
	Dr. Allan Johansen, Roche Products Pty limited, Australia
1230-1330	Lunch
1330-1530	6.13 Audit and Inspection Dr. Allan Johansen, Roche Products Pty limited, Australia

Module 7: Clinical Data Management

1 December, 2008 Monday

0900-1000	7.1 Overview of clinical data management Data management plan Dr. Chacrin Na-Bangchangj, TU-CDMC, Thailand
1000-1030	7.2 Protocol and CRF Professor Dr. Kesara Na-Bangchang, TU-CDMC, Thailand
1030-1100	Tea break
1100-1230	7.3 Statistical Analysis Plan (SAP) Data: primary & secondary data Professor Dr. Jia He, Clinical Data Management Centre, Department of Health Sciences, Faculty of Health Service, Second Military Medical University, China
1230-1330	Lunch
1330-1430	7.4 Data capture, development of database Data entry, data verification, data validation, audit trail Data clarification process Data query and resolution Mr.A.Rajagopal, Clinical Data Management Centre, Biostatistic Resource and Training Centre, Christian Medical College, Vellore, India Mr. Kasin Issaranucheap, TU-CDMC, Thailand
1430-1445	Tea Break
1445-1700	7.4 Continued
2 December	c, 2008 Tuesday
0900-1200	7.5 Practical session on data entry, verification, validation Mr.A.Rajagopal, Clinical Data Management Centre, Biostatistic Resource and Training Centre, Christian Medical College, Vellore, India Mr. Kasin Issaranucheap, TU-CDMC, Thailand Ms. Panida Kongjam, TU-CDMC, Thailand
0900-1200 1200-1300	7.5 Practical session on data entry, verification, validation Mr.A.Rajagopal, Clinical Data Management Centre, Biostatistic Resource and Training Centre, Christian Medical College, Vellore, India Mr. Kasin Issaranucheap, TU-CDMC, Thailand Ms. Panida Kongjam, TU-CDMC, Thailand Lunch
0900-1200	7.5 Practical session on data entry, verification, validation Mr.A.Rajagopal, Clinical Data Management Centre, Biostatistic Resource and Training Centre, Christian Medical College, Vellore, India Mr. Kasin Issaranucheap, TU-CDMC, Thailand Ms. Panida Kongjam, TU-CDMC, Thailand
0900-1200 1200-1300	7.5 Practical session on data entry, verification, validation Mr.A.Rajagopal, Clinical Data Management Centre, Biostatistic Resource and Training Centre, Christian Medical College, Vellore, India Mr. Kasin Issaranucheap, TU-CDMC, Thailand Ms. Panida Kongjam, TU-CDMC, Thailand Lunch 7.6 Data transform process (demonstration) • Adverse Event Dictionary • Drug Dictionary Associate Professor Dr. Sangkae Chamnanvanakij, TU-CDMC, Thailand Mr. Kasin Issaranucheap, TU-CDMC, Thailand Mr. A.Rajagopal, Clinical Data Management Centre, Biostatistic Resource and
0900-1200 1200-1300 1300-1400	7.5 Practical session on data entry, verification, validation Mr.A.Rajagopal, Clinical Data Management Centre, Biostatistic Resource and Training Centre, Christian Medical College, Vellore, India Mr. Kasin Issaranucheap, TU-CDMC, Thailand Ms. Panida Kongjam, TU-CDMC, Thailand Lunch 7.6 Data transform process (demonstration) • Adverse Event Dictionary • Drug Dictionary Associate Professor Dr. Sangkae Chamnanvanakij, TU-CDMC, Thailand Mr. Kasin Issaranucheap, TU-CDMC, Thailand Mr. A.Rajagopal, Clinical Data Management Centre, Biostatistic Resource and Training Centre, Christian Medical College, Vellore, India 7.7 Quality Control & Assurance (QC & QA) Dr. L.Jeyaseelan, Clinical Data Management Centre, Biostatistic Resource and

1700-1710 Closing Ceremony

1800-2000 Farewell party