



Oral I (Friday, 17th June 2011) 15:00-17:00

Pharmaceutical Care 1

Code	Time	Title
	15:00-15:30	Invited Speaker Implementation of Science Based Core Set of Clinical Pharmacy and Experiential Education for Schools of Pharmacy in Korea Dr. Oh, Jung Mi – Department of Pharmacy, Faculty of Pharmacy, Seoul National University, Korea
	15:30-16:00	Invited Speakers Consumer Confidence in Generic Medicines Lynn Weekes - NPS: better choices, better health, Australia
A1	16:00-16:20	Mass media involvement in shaping people's perception towards risk of the disease and vaccine safety Suzil N.V. Achmad
A2	16:20-16:40	Revolutionary Indonesian Pharmaceutical Practice Act "PP 51 (2009)", a warrant to give a Forensic Pharmacy-Lecture for Pharmacy Students. I Made Agus Selan Wirasuta
A3	16:40-17:00	PHARM. D CURRICULUM IN INDIA - FOCUS TO ACHIEVE BETTER PATIENT CARE T.K. BAVI, S.SRIRAM and A.S.MAMULA DEVI
A4	17:00-17:20	STUDENT PERSPECTIVES ON CLINICAL PHARMACY EDUCATION DELIVERY IN MALAYSIAN EDUCATIONAL INSTITUTIONS Eddy Yusu, Junalnah Ab Hamid, Larry Lee Gang Seng

Natural Product and Medicinal Chemistry 1

Code	Time	Title
	15:00-15:30	Invited Speaker A Search for Bioactive Metabolites from Marine Sponges Dr. Shin Jongheon – College of Pharmacy, Seoul National University, Korea
A5	15:30-15:50	Stereoselective synthesis Pumilotoxin C and its derivatives by PCM approach through oxazolidinone intermediates Melanny Ika Sulistyowaty, Shigeru Sasaki, Takeyasu Yamauchi and Kimio Higashiyama
A6	15:50-16:10	Cytotoxic and Antimicrobial Activities of Alkaloids from <i>Tabernaemontana corymbosa</i> Muhammad Taber, Nur Izati Binti Mensor, Demy Susanti
A7	16:10-16:30	Principal Component Analysis Model of <i>Salmonella typhimurium</i> Based on Cellular Fatty Acid Profiling Using Gas Chromatography-Mass Spectrometry Rinta Primahariniati, Mochammad Yuwono, Muhammad Zainuddin
A8	16:30-16:50	Antiproliferative and apoptotic effects of ethanolic extract of <i>Sesuvium portulacastrum</i> Merr. on T47D human breast cancer cells Sarmoko, Shika Andriani Kusumastuti, Nur Ismiyati, Edy Mulyanto
A9	16:50-17:10	STUDIES ON AMINOMETHYLATION OF PHENOLS Marcellino Ruyanto, Mochamad Faruk, Arifta Herdi Kurniatullah, Muhammad, Johan Haryadi, Tirta Bayu, and Suzana

Pharmaceutics 1

Code	Time	Title
	15:00-15:30	Invited Speaker Nucleic Acids and Gene as Therapeutic Drug: how do we deliver? Deqi Liu, PhD - Department of Pharmaceutical and Sciences, School of Pharmacy University of Pittsburgh, USA
A10	15:30-15:50	Gene synthesis for overproduction, purification and characterization of β -cyclodextrin glucosyltransferase from <i>Bacillus</i> sp. A2-5a Estroningrum, Debbie S.; Yustiantana, Putu S.; Muchlisin, Ahmad; Naballa, Desay; and Riani, Catur
A11	15:50-16:10	EURYCOMANONE INDUCES APOPTOSIS THROUGH ACTIVATION OF CASPASE-9 ON HUMAN CERVICAL CANCER (HELA) CELLS Murhasanah, Azimatol Hawariyah, LP
A12	16:10-16:30	Toll-like Receptor (TLR) 1-9 Identification of Innate Immune System in Mouse Embryonic Stem Cells Febria Imanati, Yoh-ichi Tagawa
A13	16:30-16:50	Chitosan Microparticle Based Scaffolds for Wound Healing Acceleration Amirah Adila, Tri Sociati, Maria Immacolata Iwo, and Sasanti T. Darjanto



Oral II (Saturday, 18th June 2011) 13:00-15:00

Pharmaceutical Care 2

Code	Time	Title
	13:00-13:30	Invited Speaker Vitamin D: Unleashing its potential for cardiovascular health and beyond Prof. Alan Lau, Pharm.D.- Director, International Clinical Pharmacy Education College of Pharmacy, University of Illinois at Chicago, USA
A14	13:30-13:50	Impact of Pharmacist Counseling to Outpatients Compliance with Type 2 Diabetes Mellitus in RSUD Tasikmalaya Kartika Ayu Lestari, Hery Ekowati, Anayah Achmad
A15	13:50-14:10	Medical Problems in Patients with Chronic Kidney Disease Undergoing Hemodialysis and Their Therapy (Study in Hemodialysis Unit Dr. Soetomo General Hospital Surabaya) Budi Supriati, Weny Putri Nilamsari, Rachmania, Widodo
A16	14:10-14:30	INFLUENCE OF INTANGIBLE ASSET TOWARD INTERNAL BUSINESS PROCESSES: CASE STUDIES IN THE DEPARTMENT OF HOSPITAL PHARMACY IN KLATEN REGENCY, CENTRAL OF JAVA Sitijsi, Akhahita AK, Achmad Purnomo, Achmad Fudholi, Hari Kusanto, Jogyanto
A17	14:30-14:50	RANDOMIZED PHARMACY-MANAGED ADHERENCE PROGRAM IN MALAYSIAN PATIENTS WITH DEPRESSION Sabrina Anne Jacob, Abdul Fatah Abdul Rahman, Mohamed Azmi Hassali

Natural Product and Medicinal Chemistry 2

Code	Time	Title
	13:00-13:30	Invited Speaker Studies on Cytotoxic Saponins Derived from Natural Products for New Drugs Discovery Dr. Mao-Sheng Cheng - Key Lab of Structure-Based Drug Design & Discovery, Ministry of Education, Shenyang Pharmaceutical University, P. R. China
A18	13:30-13:50	Inhibition of HeLa Cells Growth by Active Compound of <i>Boehmeria virginica</i> L. Marianti Manggau, Ely Wahyudin, Syariful Anam and Gemil Alam
A19	13:50-14:10	Antiplatelet and Platelet-activating Factor (PAF) Antagonistic Activities of Compounds Isolated from <i>Gutierrezia</i> and <i>Zingiberaceae</i> species Ibrahim Jantan
A20	14:10-14:30	Chemopreventive Effect of <i>Cuminum cyminum</i> L Seed Ethanolic Extract on 7,12-dimethylbenz[<i>a</i>]anthracene Induced Rat Mammary and Liver Dyaningtyas Dwi Pusumahas Putri, Ahmad Fauzi Romadhon, IGN Saikara, Wynanda, Sarmoko and Edy Mulyanto
A21	14:30-14:50	The Ethyl Acetate Fraction of <i>Gynura procumbens</i> Prevents Chemoresistance through inhibition MDR1 expression on MCF-7 Breast Cancer Cell Line Nunuk Aries Nurulita, Eishou Matsuda, Edy Mulyanto, Sugiyanto and Masashi Kawauchi

Natural Product and Medicinal Chemistry 3

Code	Time	Title
	13:00-13:30	Invited Speaker Development of Phytopharmaceutical Product from Noni Fruit & Ginger Rhizome Extracts as Tuberculosis Adjuvant Therapy Dr. Elin Yulinaly; Dr. I Ketut Adnyana – School of Pharmacy, Institut Teknologi Bandung, Indonesia
A22	13:30-13:50	The Influence of copper and cobalt ions addition in cell suspension culture of <i>Impatiens balsamina</i> L. toward coumarins yield Zainab dan Soegilhardjo C.I.
A23	13:50-14:10	Effect of <i>Macrosolen cochinchinensis</i> (Lour.) Tiegh. leaves Water Extract on Carcinogenesis of 7,12-Dimethylbenz[<i>a</i>]anthracene Induced Female Mice Liver Adem Hermawan, Retno Murwardi, Nina Artanti, and Edy Mulyanto
A24	14:10-14:30	GnRH regulates neuroendocrine reproduction of mammals Sari, J.P., Clarke, L.J, Wu, M, Alreja, M.
A25	14:30-14:50	ANTIPROLIFERATIVE ACTIVITY AND APOPTOTIC INDUCTION OF <i>Eugenia uniflora</i> Lam. LEAVES ETHANOL EXTRACT ON T47D BREAST CANCER Nur Irmayati, Rini Febriansah, Edy Mulyanto

Oral III (Saturday, 18th June 2011) 15:30-17:00

Pharmaceutical Care 3

Code	Time	Title
	15:30-16:00	Invited Speaker Applying the Biopsychosocial Paradigm in Pharmaceutical Care Education Prof. Yollanda Robles, PhD - College of Pharmacy, University of the Philippines Manila
A26	16:00-16:30	Identification of the Prescription Errors in General Practice: A Case Study of Charitable Hospital Abdullah Days, Raheela Saleem, Muhammad Ali and Imran Suharyani
A27	16:30-16:40	The Effect of N-Acetylcystein (NAC) on Urine Nitric Oxide in Stage 1-4 Chronic Kidney Disease Non Diabetic Patients with Proteinuria Wenny, Siti Sjamsiah, Thaha, Endang
A28	16:40-17:00	KNOWLEDGE AND ATTITUDES OF PHARMACY STUDENTS IN THE UNIVERSITI KEBANGSAAN MALAYSIA REGARDING TRADITIONAL/COMPLEMENTARY MEDICINE Jamilia A. Jama; Thomas Parasidathathu and Norazrina Azmi

Natural Product 4

Code	Time	Title
	15:30-16:00	Invited Speaker Herb-drug interactions researched in Hong Kong Dr. Joan Zhong Zuo - School of Pharmacy, Faculty of Medicine, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong
A29	16:00-16:30	PETROLEUM ETHER EXTRACT OF CANGKRING (<i>Erythrina fusca</i> Lour.) LEAVES AND ITS SELECTED ISOLATES GIVE ANTIPROLIFERATIVE EFFECT ON CERVICAL CANCER HeLa CELLS THROUGH CELL CYCLE DELAY AND APOPTOSIS INDUCTION Endah Pasolunari, Endah Dwi Setyowati S., Rifi Febriansah, Sugeng Riyanto, Edy Mulyanto
A30	16:30-16:40	Chemical compound of rhizobacteria and Arbuscular Mycorrhizal Fungi induced ginger with indigenous Netty Suharti, Trimurti Habazar, Dachryanus, Nasril Nasir, and Jamsari
A31	16:40-17:00	Cytotoxic Effect of Nilam (<i>Pogostemon coblin</i>) Ethanol Extract on T47D Breast Cancer Cell Based on Molecular Docking Rifi Febriansah, Dyamingtyas Dewi Pamungkas Putri, Ratna Azmah Susidarti, Edy Mulyanto
A32	17:00-17:20	THE INFLUENCE OF STERIC FACTOR TO ANTIOXIDATIVE ACTIVITY OF BENZYLIDENE CYCLOHEXANONE AND BENZYLIDENE CYCLOPENTANONE SERIES Sardjiman

Pharmaceutics 2

Code	Time	Title
	15:30-16:00	Invited Speaker The potency of colon as a delivery site for complex active compounds Dr. Heni Rachmawati - Research group of Pharmaceutics, School of Pharmacy, Institut Teknologi Bandung, Indonesia
	16:00-16:30	Invited Speakers Tumor-selective Delivery of Anticancer Drugs via Nanoparticle and Prodrug Approaches Dr. Chang-Koo SHIM - National Research Laboratory for Transporters Targeted Drug Design, College of Pharmacy, Seoul National University
A33	16:30-16:50	β -Cyclodextrin Glycosyltransferase Activity of an Alkaliphilic <i>Bacillus</i> LT1 Strain from Indonesia Siani, Cintia; Sagiba, Desi; Cassilawaty; Retnoningrum, Debbie S.
A34	16:50-17:10	Fusion protein of recombinant human Bone Morphogenetic Protein 2 and thioneddin: optimization of overexpression, solubilization, dimerization, and characterization Henina T. Pramesti, Tri Sucati, Sukmadjaja Azyaria, Debbie S. Retnoningrum

Revolutionary Indonesian Pharmaceutical Practice Act "PP 51 (2009)", a warrant to give a Forensic Pharmacy-Lecture for Pharmacy Students

Dr. rer. nat. I Made Agus Gelgel Wirasuta, M.Si., Apt.
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Introduction

- Pharmaceutical practice oriented
 - Patient safety
 - Pharmaceutical care
 - Safety pharmaceutical products

Indonesian Pharmaceutical Practice Based on PP 51 (2009) Act

- Definition of pharmaceutical practice on
 - pharmaceutical manufacture including pharmaceutical quality control and pharmaceutical safety,
 - pharmaceutical distribution (buying, supplying, storage, wholesale and retail of medicines and medicinale compounds, pharmaceutical management),
 - pharmaceutical services (dispensing, compounding, drugs information service), and
 - drugs development.

Indonesian Pharmaceutical Practice Based on PP 51 (2009) Act

- Field of practice (section 2(1), 5)
 - Supplying of pharmaceutical unit
 - Manufacture/Production of pharmaceutical unit
 - Distribution of pharmaceutical unit
 - Pharmaceutical services unit

Indonesian Pharmaceutical Practice Based on PP 51 (2009) Act

- Register Pharmacist (Surat Tanda Register Apoteker "STRA") (Section 39 (2))
- License pharmaceutical Practice (section 52 (2))
 - SIK (Surat ijin Kerja) is license for apothecaries, who do their pharmaceutical practice in production and distribution unit
 - SIPA (Surat ijin Praktek Apoteker) is license for apothecaries, who do their pharmaceutical practice in Pharmaceutical service:
 - Community pharmacist
 - Clinical pharmacist

Indonesian Pharmaceutical Practice Based on PP 51 (2009) Act

- Apothecaries as professional and legal responsibilities on
 - Pharmaceutical manufacture
 - Pharmaceutical distribution
 - Pharmaceutical services
- Pharmaceutical practices based on National Act or Role
 - Negligence of role/Act → Forensic Pharmacy

Forensic Pharmacy

- Forensic sciences is the application of science to legal issues.
- Pharmacy is the health profession that links the health sciences with chemistry with an ultimate goal of ensuring the safe and effective use of medications.
- Forensic pharmacists engage in professional work relating to litigation, the regulatory process, or the criminal justice system
- Many pharmacists do forensic related work but not many actually have the job title "Forensic Pharmacist"

Type of forensic works, whether it is realized or not by Pharmacies

- Community pharmacies scrutinize prescriptions for possible forgery
- Hospital pharmacies develop systems to detect and prevent drug diversion
- A clinical pharmacist or pharmacy technician may monitor patients for signs of substance abuse or watch for signs of child abuse.
- With the use of drug utilization review programs, pharmacies have the capability to watch for fraud.
- Pharmacists or pharmacy technicians may visit schools, to give presentations on drugs that are abused, with the intent of discouraging illegal use.
- Pharmacists educate about the potential risks of acquaintance rape or drug abuse among teenager
- Pharmacists works at NADC (BPOM)

Forensic Pharmacy Issue based on PP 51 (2009) Act Supplying of pharmaceutical unit

- Supplying of pharmaceutical unit "section 6 (2)"
 - do a supply of pharmaceutical Goods for his/her unit
 - To maintain availability, apportionment, achievable of pharmaceutical goods, specially essentials medicines (*UU 36 (2009) Kesehatan*)
- Requirement
 - Management planning of demand, supplying
 - QC pharmaceutical Goods reception
 - Good Handling of pharmaceutical Goods
 - Regulation for government sector
- Forensic Issued
 - Control of entering under standard Pharmaceutical Goods
 - Control of entering illicit Pharmaceutical Goods
 - Corruption (Government sector)
 - Leak of good pharmaceutical handling caused suffering of patient safety

Forensic Pharmacy Issue based on PP 51 (2009) Act Manufacture/Production of pharmaceutical unit

- Manufacture/Production of pharmaceutical unit:
 - Manufacture of medicinal product
 - Manufacture of herbal remedies / traditional medicine
 - Manufacture of cosmetic product
- Apothecary as professional and legal responsibilities (section 9, PP 51 (2009))
- Forensic issue
 - Under Standard Medicinal Products
 - Fraud and White Collar Crime
 - Adding medicine compound into traditional medicine
 - Adding non-allowed chemical substance into cosmetic product
 - Pricing of medicinal Goods (fee marketing for physician)
 - Legal responsibilities of pharmacist

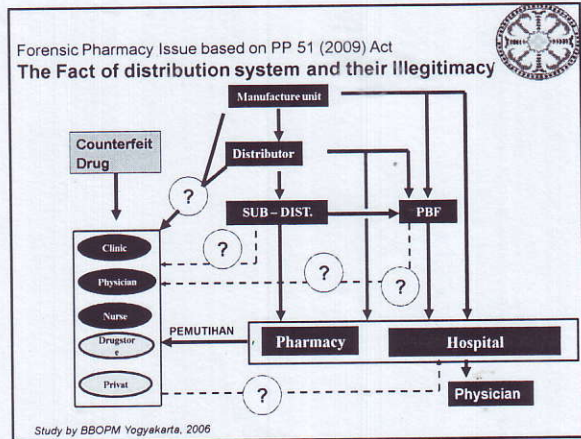
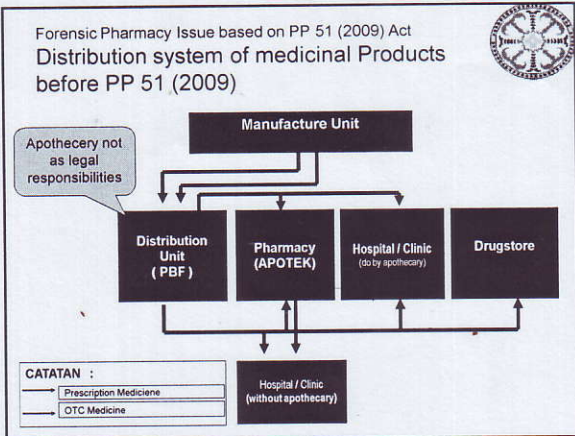
Forensic Pharmacy Issue based on PP 51 (2009) Act Distribution of pharmaceutical unit

- Sale of medicinal Products or Medicinal Compound do by "Pedangan Besar Farmasi (PBF)"
 - Wholesale
 - Retail to Pharmacy (Apotek), Drugstore, Hospital
- Apothecary as professional and legal responsibilities (section 14 (2))
 - Good Distribution Practice "GDP" (Section 15)
 - SK KaBPOM No : HK 00.05.3.2522 Th 2003
 - Ect.
- Forensic issue
 - Illegitimacy of distribution
 - Entering illicit medicinal into licit distribution
 - Drug dispensing by not professional pharmacist
 - Legal responsibilities of pharmacist

Forensic Pharmacy Issue based on PP 51 (2009) Act Distribution system of medicinal Products Based on PP 51 (2009)

CATATAN :

- Prescription Medicine
- - - OTC Medicine



- Forensic Pharmacy Issue based on PP 51 (2009) Act
Pharmaceutical services unit
- Pharmaceutical services unit (Section 19)
 - Pharmacy (apotek)
 - Hospital pharmacy
 - Puskesmas (government Clinic)
 - Private clinic
 - Drugstore
 - Apothecary
 - Pharmaceutical care (section 21, 22, 24)
 - Clinical Pharmacy & Pharmacy Community
 - Drug dispensing (Section 21 (1), 24 (c))
 - Auditing of Rational use of drug and Pharmacoecconomy (section 24, 31)

- Forensic Pharmacy Issue based on PP 51 (2009) Act
Forensic Issue related to Pharmaceutical services
- 1) Pharmacy Malpractice
 - Pharmacists can be sued for dispensing the wrong medication/medication error, compounding errors, failure to detect interactions, and failure to warn patients about side effects.
 - 2) Malpractice of Other Health Professionals
 - In related to medication forensic pharmacy expert can be of assistance, in malpractice cases of other health professionals.
 - 3) Effects of Drugs on Defendants
 - Drug induced aggression has been used as a criminal defense
 - 4) Effects of Drugs on Victims
 - Use rape drug,
 - Medications are often used as agents for suicides and suicide
 - Perpetrators use the drug to impair victims
 - depressant drug,
 - hallucinations or dreams that cannot be easily distinguished from reality

- Forensic Pharmacy Issue based on PP 51 (2009) Act
Forensic Issue related to Pharmaceutical services
- 4) Fraud and White Collar Crime
 - Quackery:
 - The promotion of remedies that lack scientific support to consumers or health professionals
 - Healthcare Fraud:
 - Submitting intentionally false data to insurance companies
 - Record Tampering:
 - Improper changes, in the entries in medical records, after a lawsuit has been initiated or fear of a lawsuit after an unexpected occurrence
 - 5) Unlabeled uses of medications
 - In USA, These unlabeled uses may raise "red flags" with the insurance provider. Forensic Pharmacy involves a review of such claims and an expert opinion whether the use is reasonable and common practice.
 - 6) Death Investigation
 - An assessment of the person's medication history is important during a death investigation

Other Forensic Sciences related to Forensic Pharmacy



- Forensic Toxicology
 - is the use of **toxicology** and other disciplines such as **analytical chemistry, pharmacology and clinical chemistry** to aid medicolegal investigation of death, poisoning, and drug use.
 - Drug abuse screening
 - Drug influence under driving
 - Dead investigation
 - Poisoning and drug toxicity
- Forensic Medicine
 - Toxicology and pharmacology
- Forensic Pharmacology
 - Pharmacy as a member of pharmacology
- Forensic Serology
 - Some pharmacy expert in human DNA
- Forensic Chemistry
 - Analysis Pharmacy
 - Drug analysis
- Forensic Environmental
 - Occupational toxicology
 - Tracing hazard compound in environmental

Forensic Pharmacy Job Description and Careers



- Experts in this area, known as *Forensic Pharmacists*,
 - consulted about a number of issues involving drugs and medications
 - medication errors
 - prescription forgery
 - policies and procedures for the dispensation of drugs
 - violations of FDA regulations
 - product tampering
 - drug patents
 - insurance fraud
 - workers compensation claims
 - use of drugs or alcohol in car accidents or violent actions
 - legal and illegal pharmaceutical evidence in criminal investigations
 - use of abused drugs in the workplace
 - professional malpractice
 - quackery and health care fraud
- Forensic Pharmacists perform
 - such general litigation support tasks as analyzing,
 - evaluating cases to helping lawyers to determine the facts of a case, gathering evidence, interviewing witnesses, formulating lists of questions that lawyers would ask witnesses, and so on
 - may assist and educate attorneys by addressing forensic topics.
 - may assist with written reports, depositions, and document reviews

Forensic Pharmacy Course in Indonesian School of Pharmacy



Recent Course

- Course not held among School Pharmacy
- Contents of course

○ Varied between School of Pharmacy

○ Some contents course:

- Introduce, toxicology of substance, forensic serology, forensic DNA, Drugs abuse, forensic toxicology, Alcohol in forensic field, forensic environmental,

Forensic Pharmacy Course based on PP-51 (2009)



- Prerequisite
 - Students need to study about the rules and regulations of Indonesian Pharmaceutical legislations
 - Medium knowledge of pharmaceutical clinic
 - Medium knowledge of pharmaceutical manufacture
- Objective
 - To know about subject and job description of forensic pharmacy
- Course Contents
 - Introduction To Pharmaceutical Legislations-A Brief Review
 - Introduction to forensic sciences especially a point a view of job description of forensic Pharmacy
 - Introduction To Drugs And Pharmaceutical Industry-A Brief Review
 - An Elaborate (Practical Oriented) Study Of The Pharmaceutical Ethics.
 - Viewing job description of NADC (BPOM)
 - An Elaborate (Practical forensic pharmaceutical Oriented) on *Supplying of pharmaceutical unit*
 - An Elaborate (Practical forensic pharmaceutical Oriented) on *manufacture of pharmaceutical unit*
 - An Elaborate (Practical forensic pharmaceutical Oriented) *Distribution of pharmaceutical unit*
 - An Elaborate (Practical forensic pharmaceutical Oriented) *pharmaceutical services unit*
 - Overlapping job ob forensic Pharmacy to other forensic sciences (practical cases discussion)

Conclusion



- Forensic Pharmacy course is needed by pharmacy students to give a point of view forensic aspects on pharmaceutical practices
- Give a new job opportunities on forensic pharmacy





5th Conference of AASP

Asian Association of Schools of Pharmacy
School of Pharmacy ITB, 16 - 19 June 2011



Pharmacist as a Key Health Care Player:
The Interplay of Education, Sciences, and Practice

THIS CERTIFIES THAT

I Made Agus G. Wirasuta

HAS PARTICIPATED IN

The 5th Conference of
Asian Association of Schools of Pharmacy

AS

Oral Presenter

Bandung, Indonesia
16 - 19 June 2011

Chairperson of
the 5th AASP Conference
Organizing Committee

AASP President

Dr. Tutus Gusdinar

Dr. Ji-Wang Chern

CERTIFICATE

Revolutionary Indonesian Pharmaceutical Practice Act “PP 51 (2009)”, a warrant to give a Forensic Pharmacy-Lecture for Pharmacy Students

by Gelgel Wirasuta

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Revolutionary Indonesian Pharmaceutical Practice Act “PP 51 (2009)”, a warrant to give a Forensic Pharmacy-Lecture for Pharmacy Students.

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Recently pharmacists should have more attention to the assurance of safety aspect of patient medication in their pharmaceutical care practices. PP 51 (2009) is an act intended to assure that Indonesian pharmacists conducted their best practices. The issuing of the act was revolutionary in that it allows pharmacists to be involved in forensic fields. Forensic is the application of science to legal issues. Pharmacy is the health profession that links the health sciences with chemistry with an ultimate goal of ensuring the safe and effective use of medications. Forensic pharmacists engage in professional work relating to litigation, the regulatory process, or the criminal justice system. The profession obtains its strength from the legal provisions such as acts, rules, bills, orders, and statutes covered in forensic pharmacy. This field is also known as pharmaceutical jurisprudence.

Course in forensic pharmacy is needed by pharmacy students to give an overview on pharmaceutical jurisprudence and its practice in forensic fields. Forensic pharmacists may testify in court, engage in regulatory activities, provide consultation for lawyers or law enforcement officials, or perform other medico-legal related works. Forensic pharmacists can be involved with administrative hearings and civil and criminal trials.

Revolutionary Indonesian Pharmaceutical Practice Act “PP 51 (2009)”, a warrant to give a Forensic Pharmacy-Lecture for Pharmacy Students

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