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Presenter

in

International Conference of Herbal Medicine

***Integration of Science, Technology and Industry on Herbal Medicine for
Clinical Application***

YARSI University Jakarta, 06 -07 October, 2016


Participant : 6 SKP IDI, 12 SKP IAI, Presenter : 8 SKP IDI, 4.5 SKP IAI, Moderator : 2 SKP IDI, Committee : 1 SKP IDI, 1.5 SKP IAI

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Head of Committee

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Prof. Susi Endrini, S.Si., M.Sc., Ph.D

Rector of YARSI University

*Conference Program and
Abstract Book*

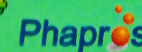
International Conference of Herbal Medicine

*Integration of Science, Technology and
Industry on Herbal Medicine for
Clinical Application*

October 6th – 7th, 2016

YARSI Tower, YARSI University, Jakarta

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Abstract Book**

**INTERNATIONAL CONFERENCE OF
HERBAL MEDICINE**

**Integration of Science, Technology and
Industry on Herbal Medicine for Clinical
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YARSI Research Institution**

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Background

Herbal medicine development requires standardization to meet global challenges. Indonesia have a total of 1.436 business entities in herbal medicine comprises of *Industri Obat Tradisional* (IOT), *Industri Ekstrak Bahan Alam* (IEBA), *Usaha Kecil Obat Tradisional* (UKOT) and *Usaha Mikro Obat Tradisional* (UMOT). Many of these small industries still require to fulfill Good Manufacturing Practice (GMP) and *Cara Pembuatan Obat Tradisional* (CPOTB) already agreed between ASEAN countries. The lack of knowledge and infrastructure for herbal medicine standardization hampers the development of small business entities in this industry. Furthermore, the output of herbal medicine research by academia and government requires a medical perspective to meet demand in clinical evidence and improvement in health situation. This integrative approach will advance the development of herbal medicine standard, thus, increase the industry market penetration.

Quality standard and evidence-based claim is the heart of the problem that hampers our herbal medicine industry in global and regional competitiveness. Although Indonesia has possessed the second megabiodiversity, the national herbal industry share value is a meager 15 trillion rupiah far below a single herbal company in China with a share value of 100 trillion rupiah. This situation warrants a solution such as synergy in academicians, businessman, and government (ABG) to collaborate in herbal medicine development today.

The International Conference of Herbal Medicine aspired to initiate synergy, collaboration and integration between stakeholders in herbal medicine research and industry. We gather researcher and global actor in herbal medicine industry to share best practices, and opportunity in technology transfers. The event supported by *Gabungan Pengusaha Jamu* (GP Jamu) and *Badan Pengawasan Obat dan Makanan* (BPOM) to enable small business entity knowledge access for herbal medicine standardization practices and to develop a herbal standardization guidance to further disseminate the knowledge. The gathering also provides a rare opportunity for research collaboration and institutional agreement to advance herbal standardization infrastructure for the benefit of the herbal medicine Industry in Indonesia.

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Welcome Message

On behalf of Universitas YARSI, I am delighted to welcome you all to the International Conference of Herbal Medicine. I hope that this conference will be a rewarding scientific meeting which hopefully will result in collaborative research activities.

Universitas YARSI as an institution of higher learning strives to improve its quality through pursuit of excellence in research and education of science, technology and the arts. Curriculum developments as well as the design of its campus and regulations are based on the vision and mission of Universitas YARSI. The vision of Universitas YARSI is to shape Universitas YARSI into an eminent Islamic higher learning institution with exceptional quality and capable to compete in both national and international forum. We currently have 5 faculties (Law, Economic, Medicine, Psychology and Information Technology) and have 6 research centers including herbal medicine, stem cell, genomics, aging, halal and e-health. These strong research and educational efforts in combination with our reputation for excellence and outstanding talented and dedicated faculty will hopefully evolve us to be one of the top 500 Universities in the world by the end of 2020.

We hope that you enjoy your visit to our campus and to the wonderful city of Jakarta. If you have any questions, do not hesitate to ask one of our organizing committees. We would also appreciate any constructive feedback you might have regarding this conference and Universitas YARSI.

Prof. Susi Endrini, S.Si., M.Sc., Ph.D.
Rector of Universitas YARSI

Welcome Message

The conference theme arises from the reality that our herbal industry development is still lagging compared to other countries, despite the large quantity of herbal research that recently gained momentum. The continuing and ever increasing herbal research conducted by various field from pharmacy and medicine to biology and food technology encompassing in vitro, in vivo and clinical trials is still insufficient to drive the pace of herbal medicine development. On the other side, we observe that small players in herbal industry lack sufficient access to research for product quality improvement although, recent trend using online marketing techniques have increases their foreign sales. They also experience difficulties to meet standardization requirement and documentation particularly in developed countries. This conference designed to gather stakeholders to try develop some responses to these problems. We hope this opportunity to sit together and engage in discussion would benefit the herbal medicine development effort which eventually will contribute to the economy and health situation in Indonesia

Dr. Juniarti, SSi, MSi

Chair of The Organizing Committee

Committee

Steering Committee

Prof. dr. Jurnalís Uddin, P.A.K
Prof. dr. Abdul Salam M.Sofro, Ph.D., SpKT
Prof. Susi Endrini, S.Si., M.Sc., Ph.D
dr. Rika Yuliwulandari, Ph.D
Prof. Dr. Qomariah, MS. PKK., AIFM
Prof. Dr. Endang Purwaningsih, MS
Prof. Dr. rer. med. Habil. HJ Freisleben, DmedSc, MPharm
Dr. Elfahmi, MSi. Apt

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Transportation	Ratim Slamet Robani

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Proceeding, Abstract & Website	: Yuhernita, S.Si., M.Si. dr. Yenni Zulhamidah, M.Sc. Trianokta Akbar Wardana, S.Kom Harliansyah, Ph.D Dharma Permana, Ph.D Dr. drh. Titik Djannatun Dr. Hj. Sri Utami, S.Si., M.Si
Exhibition	: Dr. Nazwirman, S. Kom, MM Mohamad Agung Sadeli, S.Si Luis Bastian
Public Relation	: Dr. Risdawati Djohan, M.Kes., Apt Dra. Pratami Adityaningsih, M.Kes
Documentation	: Slamet Robani
Workshop	: Drs. Herman Usman, MSi

Information for all participants

Conference Registration

Conference presenters and participant who have registered online, are required to re-register at the registration desk, located on the ground floor lobby of Universitas YARSI. **Please present your registration confirmation sheet upon re-registration.** On-site registration is also available at the same place.

Conference registration desk opening hours :

Thursday, Oct 06 th	07.30 – 16.00
Friday, Oct 07 th	07.30 – 16.30

Food and Beverages

Food and beverages (F&B) station is located on the 11th floor for participants and speakers (Ar-Rahman VIP room). These F&B stations will be opened during morning, lunch and afternoon breaks.

ID badge/ tag

Participants are required to wear their assigned ID badges/tags at all times throughout the conference. Participants, who do not wear their name badges/tags, will not be allowed to enter the conference venue.

Internet access

Wireless internet connection (WIFI) is available free of charge in conference area on the 12th floor of Universitas YARSI building. You may use your own laptop/notebook PC to access the internet. Please connect to yarsi_open_wifi5 to gain access to the internet. No passwords are required for connecting to this wireless access points.

Instruction for moderators and presenters

For moderators

1. Please proceed to the stage promptly at the appointed time and initiate the session.
2. Please strictly enforce the time limit for presentation and discussion to ensure smooth proceedings.

For presenters

1. Presentation and discussion will be conducted in English language. Presentation slides must be written in English only.
2. Presentation time for both free paper and discussion is 15 minutes each.
3. Please prepare your slide in power point and name the file with: presentation number-speaker.ppt (or pptx).
4. Please present your slides to the PC staff, at least one hour before the session begins.
5. Presenters, who will present their slides, should sit at the front seat at least 15 minutes prior to your presentation.

Invited Speakers

- **Prof. Emeritus Dr. Jiradej Manosroi**
(CEO of Manose Health and Beauty Research Center)
- **Prof. Emeritus Dr. Aranya Manosroi**
(Manager of Manose Health and Beauty Research Center)
- **Dr. rer. nat. RuAngelie Edrada-Ebel**
(University of Strathclyde, UK)
- **Prof. Dr. Ibrahim Jantan, BPharm, MSc., PhD**
(Pharmacy, UKM Malaysia)
- **Prof. Dr. rer. med. Habil. HJ Freisleben, DmedSc, MPharm**
(German—Indonesian Medical Association (DIGM e. V.))
- **Drs. Ondri Sampurno, Apt., M.Si**
(Deputy Supervision Traditional Medicines, Cosmetics and Complements Product)
- **Dr. Elfahmi M.Si, Apt**
(School of Pharmacy Institut Teknologi Bandung)
- **Dr. Raphael Aswin Susilowidodo ST, M.Si**
(Research & Development Director, SOHO Global Health)
- **Dra. Barokah Sri Utami, Apt, MM**
(President Director PT Phapros, Semarang)
- **Prof. Dr. dr. Erni Hernawati Purwaningsih, MS**
(Pharmacy Department, Faculty of Medicine Universitas Indonesia)
- **Prof. Dr. Deddi Prima Putra, Apt.**
(Faculty of Pharmacy, Andalas University)
- **Charles Saerang, M.Sc., Ph.D**
(President Director PT Nyonya Meneer)
- **Dra. Mauizzati Purba, Apt, M.Kes**
(Director of Indonesian Herbal Medicines, Badan POM)

Conference programs

Day 1, Thursday, Oct 6th, 2016

Time	Session
07.30-08.00	Registration
08.00-08.15	Welcoming Address by Prof. Susi Endrini, S.Si., M.Sc., Ph.D (Rector of Universitas YARSI)
08.15-08.30	Report by the Committee
08.30-09.00	Opening Remark by Drs. Ondri Dwi Sampurno, M.Si., Apt (Deputy Supervision Traditional Medicines, Cosmetics and Complements Product)
09.00-09.30	Press Conference
	Coffee Break (11 th Floor)
Session 1 : 09.30 – 11.30 WIB	
Theme : GMP on Herbal medicine Quality Assurance	
Moderator : Dr. rer. nat. Chaidir, MSc., Apt	
09.30-10.00	Barokah Sri Utami, MS, Apt (President Director PT Phapros, Semarang) Development and Quality Assurance on Herbal Medicine
10.00-10.30	Prof. Dr. Aranya Manosroi (Manager of Manose Health and Beauty Research Center) The development and standardization of commercialized herbal cosmetics by nanotechnology
10.30-10.45	Discussion
10.45-11.15	Dr. Raphael Aswin Susilowidodo ST, M.Si (Research & Development Director, SOHO Global Health) Implementation Seed To Patient Approach in Development of Jamu Scientific/Herbal Medicines Through Synergy of ABGC Collaboration
11.15-11.45	Dr. RuAngelie Edrada Ebel (University of Strathclyde, UK) Using Concatenated Analytical Data for Metabolomic Guided Production and Isolation of Bioactive Natural Product
11.45-12.00	Discussion
12.00-13.00	Photo session Lunch Break and Prayer, Poster Session

Session 2 : 13.00 – 14.30 WIB	
Theme : Protocol on Safety, Efficacy and Standardization of Herbal Medicine	
Moderator : Prof. dr. Abdul Salam M. Sofro, PhD, SpKT(K)	
13.00-13.30	Prof. Dr. dr. Erni Hernawati Purwaningsih, MS (Pharmacy Department, Faculty of Medicine Universitas Indonesia) The Medical Education Concerned on The Safety, Efficacy, and Standardization of Herbal Medicine
13.30-14.00	Dr. Elfahmi, M.Si, Apt (School of Pharmacy Institut Teknologi Bandung) Standardization, safety and efficacy aspects: bottleneck, challenges and opportunities in development of herbal medicines
14.00-14.30	Prof. Dr. Jiradej Manosroi (Chief Executive Officer (CEO) of Manose Health and Beauty Research Center) The development and standardization of commercialized herbal drugs and food supplements from MANOSROI III database
14.30-14.45	Discussion
14.45-15.00	Prayer and Break
15.00-16.30	Free Paper Session (Workshop Room, 11th Floor)

Day 2, Friday, Oct 7th, 2016

Time	Session
08.00-09.00	Coffee Break
Session 3 : 09.00 – 11.00 WIB	
Theme :	The Optimization of the Role of Academicians and Business Communities in Meeting the Demands of Herbal Medicines Toward the Open Market Area
Moderator :	Prof. Dr. dr. Erni Hernawati Purwaningsih, MS
09.00-09.30	Charles Saerang (<i>President Director, PT Nyonya Meneer (Businessman)</i>) The Development of Jamu in Indonesia: The Optimisation of the Role of Academicians and Business Communities
09.30-10.00	Prof. Dr. rer. med. Habil. HJ Freisleben, DmedSc, MPharm (<i>Academician, Lecturer, Medician</i>) Cooperation of Academia, Business and Government in the Open Market of Herbal Medicines
10.00-10.30	Dra Mauizzati Purba Apt (<i>Director of Obat Asli Indonesia, BPOM (Government)</i>) The Optimization of The Role of Academicians, Busingess, Communities and Government in Meeting the Demands of Herbal Medicines Towards The Open Market Area
10.30-11.00	Discussion
11.00-13.30	Lunch Break and Jum'at Prayer
Session 4 : 13.30 – 15.00 WIB	
Theme :	WHO Guideline for Herbal Medicine
Moderator :	Prof. Susi Endrini, S.Si., M.Sc., PhD
13.30-14.00	Prof. Dr. rer. med. Habil. HJ Freisleben, DmedSc, MPharm (<i>German-Indonesian Medical Association (DIGM e. V.)</i>) WHO Guidelines for Herbal Medicines
14.00-14.30	Prof. Dr. Ibrahim Jantan (<i>Pharmacy, UKM Malaysia</i>) WHO Guidelines for Quality Control of Herbal Medicines
14.30-15.00	Prof. Dr. Deddi Prima Putra, Apt. (<i>Faculty of Pharmacy, Andalas University</i>) Role 'Saintifikasi Jamu' on the Development of Indonesian Traditional Medicine toward ASEAN Free Trade
15.00-15.30	Closing Ceremony

Day 3, Oct 8th, 2016

Workshop : Standardization and Characterization of Raw Material Medicinal Herbs

(08.00-17.00 WIB, Workshop Room, 11th Floor)

List of Presenters

Oral Presentation

No	Code	Presenter & Title
1	OR 01	Wening Sari (<i>YARSI University</i>) Andrographolide Suppressed Cell Viability and Arrested Cell Cycle at G1 Phase in Human Bone Marrow Mesenchymal Stem Cells (HBMMSCs)
2	OR 02	Afghani Jayuska (<i>Tanjungpura University</i>) Identification of 3-Alpha-Friedelanol Pentacyclic Triterpenes from n-Hexane Fraction of Gaharu (<i>Aquilaria malaccensis</i>) Leaves
3	OR 03	Muhamad Agus Wibowo (<i>Tanjungpura University</i>) The Kesum Leaves Extract Prevents the Reactive Oxygen Species Production in the Alloxan-Exposed Animal Model
4	OR 04	Emrizal (<i>High School of Pharmacy Science Pekan Baru</i>) Formulations and Hedonic Test of Sirih Merah (<i>Piper crocatum</i> Ruiz & Pav) Herbal Tea with Sugar-Corn, Sugar-Cane and Sugar-Palm as Sweeteners
5	OR 05	Sumaryati Syukur (<i>Andalas University</i>) Nutrigenomic of Aphanizomenon Flos Aquae (AFA) in CellMaxx Super Nutrition For Total Health And Beauty
6	OR 06	Muhammad Yanis Musdja (<i>Syarif Hidayatullah University</i>) Acute Toxicity Test Mixture of Ethanol Extract of Betle Leaf (<i>Piper betle</i> . Linn) and Extract of Dried Gambir (<i>Uncaria gambir</i> . Roxb) on Male Mice
7	OR 07	Diniwati Mukhtar (<i>YARSI University</i>) The effect of combination of aerobic training and sesoot acetone extract administration to cardiometabolic parameters on high fat-diet rats
8	OR 08	Juniarti (<i>YARSI University</i>) Correlation between Angiogenesis and VEGF Expression in the Wound Healing Process Accelerated by Methanol Extract of Jarak Tintir leaves (<i>Jatropha multifida</i> L)

Poster Presentation

No	Code	Presenter & Title
1	OP 01	Rahmat Santoso (<i>Padjajaran University</i>) Formulation Gel with Cinnamon Bark Extract (<i>Cinnamomum burmanni</i> Nees ex. Bl) as Antioxidant
2	OP 02	Oentarini Tjandra (<i>Tarumanegara University</i>) Comparative Study between the Effectiveness of Moisturizing Cream Containing Green Tea and Moisturizing Cream Containing Vitamin E in Geriatric Patient with Dry Skin
3	OP 03	Samsul Mustafa (<i>YARSI University</i>) The effect of soy extract on the expression of TERT pancreatic b-cells diabetes mellitus rat induced by alloxan
4	OP 04	Ida Susanti (<i>Indonesia University</i>) Chemopreventive effect of Beta Glucan From Oyster Mushroom (<i>Pleurotus ostreatus</i> . Jacq P. Kum) on carcinogenesis of breast cancer induced by 7, 12 Dimethylbenz[a]anthracene (DMBA)
5	OP 05	Himmi Marsiati (<i>YARSI University</i>) Viability of cultured HepG2 cells exposed to mangiferin and quercetin
6	OP 06	Nabilah Aulia Hasanuddin (<i>Syarif Hidayatullah University</i>) The Effects of <i>Jatropha curcas</i> Seed Extract to Protein Level of VEGF and Histological Feature of Central Vein in Liver Tissue
7	OP 07	Tiara Bayyina (<i>Syarif Hidayatullah University</i>) Effect of <i>Jatropha curcas</i> L Seed Extract in LDH Activity and Histological Feature in Liver
8	OP 08	Susi Kusumaningrum (<i>Agency for Assesment and Application of Technology (BPPT)</i>) Standardization of Labu Siam Fruit (<i>Sechium edule</i> Jacq.Swartz) as Component of Cholesterol-Lowering Herbal Medicine
9	OP 09	Linda Weni (<i>YARSI University</i>) Effect of Thymoquinone on Insulin Secretion in BRIN BD 11 Treated with Alloxan
10	OP 10	Eva Marlina (<i>Mulawarman University</i>) The Anticancer activities of <i>Macaranga hosei</i> leaves Against HeLa Cell

Nutrigenomic of Aphanizomenon Flos Aquae (AFA) in CellMaxx Super Nutrition For Total Health And Beauty

Sumaryati Syukur

Laboratory of Biotechnology, Departement of Chemistry, University of Andalas
Padang, Indonesia
(CellMaxx Consultant Indonesia)

CellMaxx is the result of a revolution in the world of the latest health in this century, for those affected by chronic diseases such as tumors / cancer, stroke, diabetes, heart disease, high blood pressure do not have to take an injection to obtain stem cells (stem cells) from the bone marrow for treatment but sufficient by consuming CellMaxx regularly. CellMaxx is a super fod (health food) high nutrient made from extracts (AFA), Aphanizomenon Flos Aquae (AFA), peaches and oligosaccharides are formulated using Imumaxx technology.

Clinical studies have also proved that after 60 minutes of consuming CellMaxx, the body is able to reproduce the 3-4 million stem cells (stem cells) are new with a healthy and an increase Natural Killer (NK) by 40% in the human body. Natural Killer cells are white blood types are a major part of the innate immune system of the human body. Around 1000 NK cells are found in every drop of blood. NK cells act as a fortress guarding the spread throughout the body to seek out and kill the cells in the human body that are cancerous, infected with a virus or bacterial pathogens. NK able to make cancer cells commit self-destructive (self-destruction).

CellMaxx rich in various nutrients including polysaccharides complete, Phycocyanin, Chlorophyll, L-Selectin Ligand, 12 kinds of vitamins, 27 essential minerals and phenylethylamine (PEA). Here are the details of the content contained in CellMaxx.

Acute Toxicity Test Mixture of Ethanol Extract of Betle Leaf (*Piper betle*. Linn) and Extract of Dried Gambir (*Uncaria gambir*. Roxb) on Male Mice

Muhammad Yanis Musdja¹, Nurmeilis, Wulan Permata Sari

Pharmacy Department, Faculty of Medicine and Health Sciences of State Islamic
University Syarif Hidayatullah, Jakarta

Introduction: The main components for chewing are betel leaf (*Piper betle*. Linn) and extract of dried gambier (*Uncaria gambir*. Roxb). Generally, it is used to cure infectious diseases and increase body immunity (Immunomodulator) by many people. **Objective:** To determine the acute toxicity (LD50) of a mixture of ethanol extract of betel leaf (*Piper betle* Linn.) with a dry extract gambier (*Uncaria gambir*. Roxb) and its influence on behavior and organ histopathology on male white mice.

Materials and Methods. Male mice (DDY strain) as many as 25 animals were divided into 5 groups. Each of the groups were given a dose of 5.4 g / kg, 10.8 g / kg, 21.6 g / kg, and 43.2 g / kg, respectively and 0.5% Na CMC was used as a control. Then, conducted observation of toxic symptoms, the number of dead and observations of histopathological organ, after the administration of the test material 24 hours to 14 days.

Result and Conclusion. From this research, it was found LD50 value of test materials at 13.99 g / kg. Histopathological observations was obtained the damage on the liver, intestines, kidneys, and stomach. As for the organ weights of mice were analyzed using ANOVA and Kruskal Wallis test. The analysis showed that the test materials have an effect on cardiac, kidney, stomach, and intestines with a significant difference at level of 0.05 ($p \leq 0.05$).