

PROGRAM BOOK

17TH ACCP 2017 INDONESIA

20 YEARS OF ASIAN CONFERENCE
ON CLINICAL PHARMACY

Unity in Diversity and the Standardisation
of Clinical Pharmacy Services

**BALLROOM TENTREM HOTEL
YOGYAKARTA - INDONESIA**

July 28-30, 2017

Host:



Universitas Airlangga

in collaboration with



Indonesian Pharmacist
Association

Co-Host:

- Universitas Gadjah Mada
- Universitas Ahmad Dahlan
- Universitas Islam Indonesia
- Universitas Muhammadiyah Yogyakarta
- Universitas Sanata Dharma



Christina Avanti

Christina Avanti, M.Si., Apt.

"UNITY IN DIVERSITY AND THE STANDARDISATION OF CLINICAL PHARMACY SERVICES"

ACCP is composed of clinical pharmacy practitioners, educators, researchers, administrators, and other interested individuals that provide leadership, direction, advocacy, and a place for idea exchange in order to promote excellence in clinical pharmacy practice, education, and research in Asia.

TABLE OF CONTENTS

- 02 Welcome Messages**
- Message from the President of the Asian Conference on Clinical Pharmacy
 - Message from the Chairman of 17th ACCP 2017 Indonesia
 - Message from Dean of Faculty of Pharmacy, Universitas Airlangga
 - Message from the President of the Indonesian Pharmacist Association
 - Message from the Ministry of Health of Indonesia

- 06 About Asian Conference on Clinical Pharmacy**
- Vision, Mission, Goals
 - Past Conference
 - ACCP Board Members

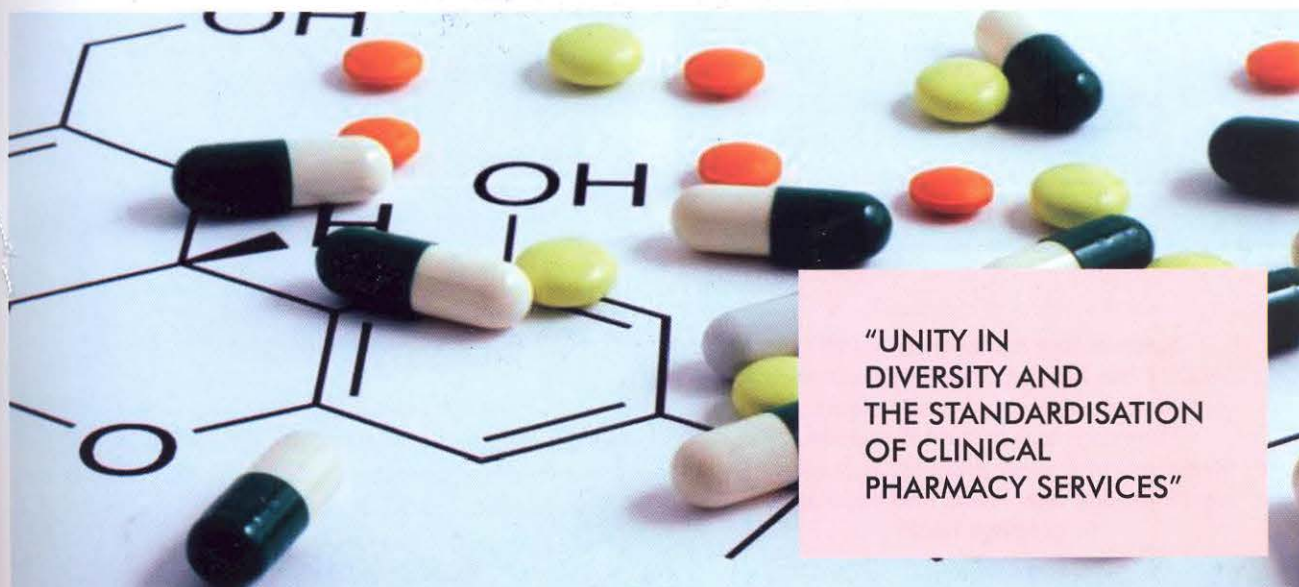
- 12 The 17th ACCP Committee**
- Advisors
 - Steering Committee
 - Organizing Committee

- 18 General Information**
- General Information
 - Map of Yogyakarta
 - Important Numbers
 - Conference Site Maps

- 23 Scientific Program**
- Pre-Conference Workshops
 - Conference Programs
 - Oral Presentations
 - Poster Presentations
 - Speakers Biographies

- 134 Gala Dinner**

- 137 University and Hospital Visits**



"UNITY IN DIVERSITY AND THE STANDARDISATION OF CLINICAL PHARMACY SERVICES"

WELCOME MESSAGES

MESSAGE FROM THE PRESIDENT OF THE ASIAN CONFERENCE ON CLINICAL PHARMACY



Since its first conference in 1997, ACCP has brought together thousands of clinical pharmacists and researchers from across Asia and the world to discuss and study progress in research, development, standards, and applications to promote health.

Dear Delegates and ACCP Board Members,

It is my honor to welcome you to the 17th Asian Conference on Clinical Pharmacy in Yogyakarta, Indonesia. ACCP is a prominent international conference to exchange and share views on the concept of clinical pharmacy. Since its first conference in 1997, ACCP has brought together thousands of clinical pharmacists and researchers from across Asia and the world to discuss and study progress in research, development, standards, and applications to promote health.

This year our theme is "Unity in Diversity and the Standardisation of Clinical Pharmacy Services." There will be pre-conference workshops on anticoagulant, cardiovascular disease, EBM, antibiotic stewardship, oncology pharmacy, and communication skills in pharmacy practice. The conference consists of keynote speeches, symposia, oral presentation and poster sessions regarding various current issues in clinical pharmacy. By sharing our knowledge and experience, ACCP 2017 will provide to all participants from academia, industry, regulatory bodies as well as young and experienced researchers an opportunity to discuss our capability and responsibility from various synergetic aspects. We believe this united power will further nourish clinical pharmacy.

We wish you a productive conference, and hope you enjoy your time in Yogyakarta, a city of art and culture.

Yours sincerely,

Dr. Yunita Nita, M.Pharm., Apt.

ACCP President - Elect

WELCOME MESSAGES

MESSAGE FROM THE CHAIRMAN OF 17TH ACCP 2017 INDONESIA



Assalamu'alaikum warahmatullahi wabarakatuh .

On behalf of Indonesian ACCP Board Members, it is my pleasure to welcome all of you to the 17th Asian Conference on Clinical Pharmacy, which will be held from July 28-30, 2017 in Yogyakarta, Indonesia. It is an honor for us to celebrate 20 years of ACCP in 2017 and it is such an auspicious event in Indonesia, where it will be the second time for ACCP held in Indonesia.

We hope we will make this a truly exciting journey of knowledge for all delegates. In view of the globalization and its challenges, we have put together scientific programmes covering current and pressing topics related to clinical pharmacy practice. With the conference theme "Unity in Diversity and the Standardisation of Clinical Pharmacy Services", the 17th ACCP will begin with pre-conference workshops on July 27. Please take advantage of workshops to advance your practical skills and in-depth insights to specialized knowledge. Furthermore, there will be more opportunities for the exchange of scientific ideas via keynote, plenary sessions, symposia, oral and poster presentations during the conference.

We anticipate all delegates can learn, share, and network with pharmacists from all over the countries, thus opening the opportunity for initiating staff or student exchange programs among the delegates. Furthermore, we invite all participants to join a Gala Dinner on July 29 at the Plataran Brahma, located next to Prambanan Temple and set against the majestic flood-lighted temple as the background. You can gather with others while watching the most wonderful Sendratari Ramayana performed by highly-skilled dancers on the open-air stage. It is an unforgettable and unique experience. At the end of the conference, delegates can join university and hospital visits on July 31.

While enjoying the rich features of various scientific programs, we hope you will take some time to enjoy our beautiful Indonesia. Do explore the traditional cultures and various colors found in famous street food-culture, wonderful shopping opportunities and friendly people. I wish you a delightful stay and hope that you take home the very best of memories from this conference.

Thank you.

Dr. Suharjono, M.S., Apt.

17th ACCP Chairman

WELCOME MESSAGES

MESSAGE FROM RECTOR, UNIVERSITAS AIRLANGGA



On behalf of Universitas Airlangga, I would like to extend my congratulations to all those involved in organizing and participating in the 17th Asian Conference on Clinical Pharmacy in Yogyakarta, Indonesia. It has been nine years since we hosted the 8th conference on 2008 in Surabaya. This year we are hosting the conference in collaboration with Indonesian Pharmacists Association and co-hosts including Universitas Gadjah Mada, Universitas Sanata Dharma, Universitas Ahmad Dahlan, Universitas Islam Indonesia, Universitas Muhammadiyah Yogyakarta.

This year is very special occasion. ACCP has been held for 20 years since the first conference in year 1997. This year theme "Unity in Diversity and the Standardisation of Clinical Pharmacy Services" provides a unique opportunity for researchers, policy makers, academics and practitioners to answer some of the challenges in the development of clinical pharmacy services and to outline new solutions for developing specific curriculum to support them.

Nowadays the borders between countries are becoming more and more transparent. The problems occurring in the society are more complex than those in the past. This is evident in the existence of this conference, and it is also clearly apparent in the collaboration that is already taking place among the Asian countries. I hope this event will promote excellence of clinical pharmacy practice, education, and research in all health care settings.

I wish you a successful conference and a wonderful Indonesian visit.

Thank you

Prof. Dr. Moh. Nasih, SE, MT, Ak, CMA
Rector Universitas Airlangga

WELCOME MESSAGES

MESSAGE FROM THE PRESIDENT OF THE INDONESIAN PHARMACIST ASSOCIATION



On behalf of the Indonesian Pharmacist Association it is a great pleasure and an honor to extend to you a warm greeting in attending the special 17th Asian Conference on Clinical Pharmacy 2017 in Yogyakarta, Indonesia that also celebrate the 20 years of ACCP.

The theme of the 2017 conference “Unity in Diversity and the Standardization of Clinical Pharmacy Service” will emphasize the need for taking step together in collaboration and cooperation of pharmacists and other health professionals, and developing the standardization of Clinical Pharmacy Service. This conference will strive to offer plenty of networking opportunities, providing you with the opportunity to meet and interact with the leading clinical pharmacists and health professionals, academics and researchers, friends and colleagues. By joining various activities provided by this conference, I hope you can take the fullest advantage in exchanging knowledge and experience for advancing clinical pharmacy.

At last, I sincerely welcome you to the ACCP 2017, enjoy a symphony of outstanding knowledge and experience in clinical pharmacy, and take a little extra time to enjoy the spectacular and unique beauty of Yogyakarta.

Best Wishes,

Drs. Nurul Falah Eddy Pariang, Apt.

The President Of The Indonesian Pharmacist Association

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FRIDAY, 28 July 2017 - (16.30-17.30)

Oral Presentation Day-1 Room A (KENARI)	Oral Presentation Day-1 Room B (KERUING)	Oral Presentation Day-1 Room C (MAHOGANI)
Chairpersons: Ms Hong Yen Ms Gusti VA Ahmad	Chairpersons: Prof Roger Lander Dr Christine Teng	Chairpersons: Dr Sutthiporn Pattharachayakul Dr Fita Rahmawati
01-A-1 [ABS-3] Medication safety assesment among filipino pharmacist Romeo C. Ongpoy	01-B-1 [ABS-62] Pain improvement of diacerein and meloxicam therapy compared with meloxicam alone in osteoarthritis patients Ni Made Oka Dwicandra	01-C-1 [ABS-46] Development and evaluation of an antidepressant E-Learning tool used to supplement standard curricula in pharmacology education Abdullah Karaksha
01-A-2 [ABS-231] Health literacy index assesment in kota Yogyakarta and potential intervention to improve health literacy by pharmacist Niken Nur Widyakusuma	1-B-2 [ABS-140] The efficacy of bisphosphonate therapy in patients with osteoporosis and osteopenia by monitoring the value of Bone Mineral Density (BMD) (The study was conducted in the rheumatology polyclinic of Saiful Anwar General Hospital) Emma Pristi Yunita	01-C-2 [ABS-118] Improving the competence of pharmacist professional students in aseptic handling by an international lecturer Okti Ratna Mafruhah
01-A-3 [ABS-19] Pharmacist-patient communication in Indonesia: an observational study of characteristic information using Roter Interaction Analysis System (RIAS) Ika Mulyono	01-B-3 [ABS-320] Risks factors of falls among elderly: implications of fall-risk increasing drugs on patients with comorbidities Hannah AH	01-C-3 [ABS-192] The effect of the jigsaw with cooperative learning method on pharmacy student in the infection and malignancy pharmacotherapy subject Mutiara Herawati
01-A-4 [ABS-84] Ward pharmacist workload analysis in Indonesian class A hospital Ayuk Lawuningtyas Hariadini	01-B-4 [ABS-334] Acute postoperative pain management in elderly patients: evaluating the use of analgesic Azizah Vonna	01-C-4 [ABS-235] Implementation of team-based learning on pharmacotherapy training for Indonesian pharmacists Franciscus Cahyo Kristianto
01-A-5 [ABS-4] Scope of practice within Australian community pharmacy and potential opportunities for the role expansion of pharmacists Andi Hermansyah	01-B-5 [ABS-7] Risk factor influencing cardiotoxicity due to tranzumab in breast cancer : a case-control study at King Chulalongkorn Memorial Hospital Karunrat Tewthanom	01-C-5 [ABS-250] Pharmacy students' perceptions of using the Edmodo as a virtual case based learning in nutrition Endang Sulistiyowatiningsih
01-A-6 [ABS-151] Factors affecting waiting time in an outpatient pharmacy: pharmacists' perspectives Lailaturrahmi	01-B-6 [ABS-242] Variant 3435 and 2677 of multi drug resistance gene-1 on children with acute lymphoblastic leukemia in Bali Rasmaya Niruri	01-C-6 [ABS-314] Perception on standardization of competency assessment tools among clinical pharmacist in the Philippines Erwin Martinez Faller

FRIDAY, 28 July 2017 - (16.30-17.30)

Oral Presentation Day-1 Room D (MALAPARI)	Oral Presentation Day-1 Room E (SONOKEMBANG)	Oral Presentation Day-1 Room F (SONOKELING)
Chairpersons: Prof Nguyen Van Hung Dr Suci Hanifah	Chairpersons: Dr Mehdi Rajabi Dr Saiful Bachri	Chairpersons: Dr Mahardian Rahmadi Dr Rina Mutiara
01-D-1 [ABS-45] Impact of a clinical pharmacist-led management on cancer pain therapy in Thoen district health system, Thailand : a retrospective study Montree Wongkamma	01-E-1 [ABS-355] Drug-drug interaction signal detection using by association analysis Kiyon Rhew	01-F-1 [ABS-116] Performance of several free software packages (monolix, winbugs-pkbugs, and winsaam) in comparison to nonmem to analyse sparse pharmacokinetic data Akhmad Kharis Nugroho
01-D-2 [ABS-6] The impact of pharmacist-led patient education programme on quality of bowel preparation for colonoscopy: a preliminary finding Sivakami J	01-E-2 [ABS-247] The anti-inflammatory effect of transdermal delivery of diclofenac sodium patch matrix type Esti Hendradi	01-F-2 [ABS-65] Role of pharmacist in education and therapeutic monitoring toward self-management of blood glucose profiles in patient diabetes mellitus type II Made Ary Sarasmita
01-D-3 [ABS-201] The correlation between therapy compliance and blood pressure in hypertension respondents aged 40-75 years using the Morisky instrument in Sleman, DIY Christianus Heru Setiawan	01-E-3 [ABS-176] Effect of combination between Typhonium flagelliforme Lodd. (Blume) and Phyllanthus niruri Linn. ethanolic extracts on immune system: in vivo study Sekar Sedy Pangestika	01-F-3 [ABS-125] Drug information service needs analysis in patients periatric with diabetes mellitus in Samarinda city Dewi Rahmawati
01-D-4 [ABS-244] Critical factors that affect the success of clinical pharmacy practices in PKU Muhammadiyah Wonosobo Hospital Dwi Pudjaningsih	01-E-4 [ABS-139] The effect of Imperata cylindrica L. (Alang-alang) roots extract in nitric oxide serum level in diabetic mice Almira Zada	01-F-4 [ABS-53] The impact of pharmaceutical care on asthma patients: the experience from a public hospital in Padang, Indonesia Dedy Almasdy
01-D-5 [ABS-123] Building patient's care with increasing role of clinical pharmacist in Indonesia Herda Ariyani	01-E-5 [ABS-112] The activity of losartan in rat liver fibrosis through serum level of aminotransferase, albumin, globulin and platelet Anisyah Achmad	01-F-5 [ABS-73] Evaluation of health-related quality of life of tuberculosis defaulters in two major cities in Yemen Ammar Ali Saleh Jaber
01-D-6 [ABS-268] Patient satisfaction with home pharmacy care in Banyumas Indonesia Vitis Vini Fera Ratna Utami	01-E-6 [ABS-124] The compensatory effect of chronically 17 α -ethynylestradiol induced intrahepatic cholestasis in rats: Increased hepatic biosynthetic ratio of chenodeoxycholic acid and bile acids renal excretion Fan Zhang	01-F-6 [ABS-86] The use of assistive counselling tool "TB Care (Lung)" to increase tuberculosis patient's knowledge level Ratna Kurnia Illahi

FRIDAY, 28 July 2017 - (16.30-17.30)

Oral Presentation Day-1 Room D (MALAPARI)	Oral Presentation Day-1 Room E (SONOKEMBANG)	Oral Presentation Day-1 Room F (SONOKELING)
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01-D-2 [ABS-6] The impact of pharmacist-led patient education programme on quality of bowel preparation for colonoscopy: a preliminary finding Sivakami J	01-E-2 [ABS-247] The anti-inflammatory effect of transdermal delivery of diclofenac sodium patch matrix type Esti Hendradi	01-F-2 [ABS-65] Role of pharmacist in education and therapeutic monitoring toward self-management of blood glucose profiles in patient diabetes mellitus type II Made Ary Sarasmita
01-D-3 [ABS-201] The correlation between therapy compliance and blood pressure in hypertension respondents aged 40-75 years using the Morisky instrument in Sleman, DIY Christianus Heru Setiawan	01-E-3 [ABS-176] Effect of combination between Typhonium flagelliforme Lodd. (Blume) and Phyllanthus niruri Linn. ethanolic extracts on immune system: in vivo study Sekar Sedyo Pangestika	01-F-3 [ABS-125] Drug information service needs analysis in patients periatric with diabetes mellitus in Samarinda city Dewi Rahmawati
01-D-4 [ABS-244] Critical factors that affect the success of clinical pharmacy practices in PKU Muhammadiyah Wonosobo Hospital Dwi Pudjaningsih	01-E-4 [ABS-139] The effect of Imperata cylindrica L. (Alang-alang) roots extract in nitric oxide serum level in diabetic mice Almira Zada	01-F-4 [ABS-53] The impact of pharmaceutical care on asthma patients: the experience from a public hospital in Padang, Indonesia Dedy Almasdy
01-D-5 [ABS-123] Building patient's care with increasing role of clinical pharmacist in Indonesia Herda Ariyani	01-E-5 [ABS-112] The activity of losartan in rat liver fibrosis through serum level of aminotransferase, albumin, globulin and platelet Anisyah Achmad	01-F-5 [ABS-73] Evaluation of health-related quality of life of tuberculosis defaulters in two major cities in Yemen Ammar Ali Saleh Jaber
01-D-6 [ABS-268] Patient satisfaction with home pharmacy care in Banyumas Indonesia Vitis Vini Fera Ratna Utami	01-E-6 [ABS-124] The compensatory effect of chronically 17 α -ethynylestradiol induced intrahepatic cholestasis in rats: Increased hepatic biosynthetic ratio of chenodeoxycholic acid and bile acids renal excretion Fan Zhang	01-F-6 [ABS-86] The use of assistive counselling tool "TB Care (Lung)" to increase tuberculosis patient's knowledge level Ratna Kurnia Illahi

SATURDAY, 29 July 2017 - (15.15-16.05)

Oral Presentation Day-2 Room A (KENARI)	Oral Presentation Day-2 Room B (KERUING)	Oral Presentation Day-2 Room C (MAHOGANI)
Chairpersons: Dr Abdullah Karaksha Mr Bambang S. Zulkarnain	Chairpersons: Dr Farshad Hasemian Ms Lisa Aditama	Chairpersons: Dr Daraporn Rungprai Ms Rasmaya Niruri
02-A-1 [ABS-97] The trends and costs of drug use angiotensine II receptor blockers in hypertensive outpatient in RSUD Pemangkat Indonesia Nurmainah	02-B-1 [ABS-175] Identification of drug related problems in congestive heart failure patients in Panembahan Senopati Public Hospital during January to May 2015 Pinasti Utami	02-C-1 [ABS-161] Evaluation of myeloperoxidase and CD68 expression in aorta and heart of hypercholesterolemia rat Maritsa Nurfatwa
02-A-2 [ABS-311] Challenges supply chain of hospital pharmacy in Indonesia Habiburrochman	02-B-2 [ABS-243] Identification of drug related problems (DRPs) in patient with congestive heart failure (CHF) inpatient instalation PKU Muhammadiyah Yogyakarta Hospital Indiastuti Cahyaningsih	02-C-2 [ABS-119] Changes of renal drug excretion pathways in gentamicin-induced acute kidney injury in rats Yanrong Ma
02-A-3 [ABS-152] Cost analysis and factor that influence total cost in patient with perforated appendicitis in national health insurance system Husna Anindita	02-B-3 [ABS-149] Drug related problems among diabetic patients with routine visits to primary healthcare center Nurul Maziyyah	02-C-3 [ABS-195] Enalapril increased the urinary excretion of metformin via induced multidrug and toxin extrusion protein 1 expression in rats kidney Yan-fang Wu
02-A-4 [ABS-153] Linagliptin in the treatment of type 2 diabetes mellitus: A rapid assessment and economic analysis based in China Peng Men	02-B-4 [ABS-297] Drug related problem (DRPs) on Patient with Chronic Kidney Disease stage V who undergo hemodialysis in Hemodialysis Installation DR. M. Djamil Padang in Agustus – October 2016 Suharti	02-C-4 [ABS-34] Myocardial infarction might contribute on formation of atheroma plaque in aorta of hypercholesterolemic rat by increasing the inflammation condition Neng F. Kurniati
02-A-5 [ABS-221] Direct non-medical costs of squamous cell carcinoma cervical cancer patients with stadium IIb-IIIb that underwent paclitaxel carboplatin chemotherapy at sanglah hospital Denpasar Rini Noviyani	02-B-5 [ABS-173] Identification of drug related problems in urinary tract infection patients at Labuang Baji Hospital Alifia Putri Febriyanti	02-C-5 [ABS-95] Post cardiac arrest arrhythmias and coagulation profile following 8 minute asphyxia in rats: Adenosine-Lidocaine and Mg2+ (ALM) versus epinephrine Yulia Y. Djabir

SATURDAY, 29 July 2017 - (15.15-16.05)

Oral Presentation Day-2 Room D (MALAPARI)	Oral Presentation Day-2 Room E (SONOKEMBANG)	Oral Presentation Day-2 Room F (SONOKELING)
Chairpersons: Prof Yolanda Robles Dr Saepudin	Chairpersons: Dr Vivian Lee Dr Rizka Andalusia	Chairpersons: A/Prof Romeo Ongpoy Ms Vitis Ratna Utami
02-D-1 [ABS-67] Hospital pharmacists' perspectives about pharmacovigilance in Malaysia Muhammad Shahid Iqbal	02-E-1 [ABS-10] An evaluation of a trainers module for community-based learning on self-medication Adji Prayitno Setiadi	02-F-1 [ABS-88] The occurrence of hypertension in chronic obstructive pulmonary disease (COPD) patients who treated with β -2 agonists bronchodilators Aprilita Rina Yanti Eff
02-D-2 [ABS-211] Pharmacists' knowledge and perceptions towards pharmacovigilance system In Indonesia Hendy Ristiono	02-E-2 [ABS-141] Healthcare collaboration program of pharmacist and midwife at maternal posyandu in preventing emergency cases during pregnancy and labor Anita Purnamayanti	02-F-2 [ABS-290] Drug utilization pattern of asthma in asthma patients at Puskesmas Sukmajaya Depok 2015 Nanda Asyura Rizkyani
02-D-3 [ABS-318] Evaluation of knowledge, attitude and perceived barriers towards adverse drug reaction reporting among final year pharmacy and medical students in Malaysia Faiz Ahmed Shaikh	02-E-3 [ABS-17] Community-based learning improves self-medication knowledge in Indonesian community cadres: a pre-test post-test study Yosi Wibowo	02-F-3 [ABS-63] Drug therapeutic assessment in inpatient wards at a 160-beds hospital in Pekanbaru, Indonesia Laelatul Muniroh
02-D-4 [ABS-98] Guideline use behaviours and needs of primary care practitioners in China: a cross-sectional survey Linan Zeng	02-E-4 [ABS-136] Physicians' adherence to clinical practice guideline in treating of geriatric hypertensive patients with cardiovascular diseases Ahmed Alaa Altemimi	02-F-4 [ABS-328] Missing doses in intensive care units (ICUs) in King Fahad Medical City, Saudi Arabia: a descriptive study Sohail Ahmad
02-D-5 [ABS-229] The adherence of drug use to national formulary in University Hospital in Yogyakarta Areski		02-F-5 [ABS-287] Antioxidative effect comparison between metformin and combination of metformin-sulfonylurea in type 2 diabetes mellitus patients Rani Sauriasari

PENGESAHAN

Salinan/ Foto kopi sesuai dengan aslinya



 Dekan,
 Dr. Christina Avanti, M.Si., Apt.

SUNDAY, 30 July 2017 - (12.45-14.25)

Oral Presentation Day-3 Room A (KENARI)	Oral Presentation Day-3 Room B (KERUING)	Oral Presentation Day-3 Room C (MAHOGANI)
Chairpersons: Dr. Baharuddin Ibrahim Ms. Arie Sulistyarni	Chairpersons: A/Prof. Lunawati Bennet Ms. Zamrotul Izzah	Chairpersons: Ms. Yong Pei Chean Dr. Adjil Prayitno
03-A-1 [ABS-91] Complementary and alternative medicine in Malaysia: predictors of serious adverse drug reactions Sameerah Shaikh Abdul Rahman	03-B-1 [ABS-100] Evaluation of clinical pharmacists consultation service for patients with infectious diseases in China: a systematic review and meta-analysis Jiaxing Zhang	03-C-1 [ABS-39] Correlation between fasting plasma glucose, castelli's risk index-1 and health related quality of life (HRQoL) among hypertension subjects in Sleman District, Yogyakarta, Indonesia Dita Maria Virginia
03-A-2 [ABS-127] The effect of coenzyme Q10 on malondialdehyde level and exercise performance to the male runners in Jakarta Shirly Gunawan	03-B-2 [ABS-115] The comparison between the effectiveness of empirical and definitive antimicrobial therapy in hospital-acquired pneumonia patients and diabetic foot infections patients in inpatient ward at RSUP. dr. Sardjito Hospital in January 2013 - December 2015 Ika Puspita Sari	03-C-2 [ABS-179] Management of hyponatremia in patients hospitalized from heart failure: a retrospective study S. Saepudin
03-A-3 [ABS128] Clinical trial of jamu X on glucosa levels and HbA1C in patients with type 2 diabetes mellitus Zullies Ikawati	03-B-3 [ABS-224] The identification of microbial content in clinical specimens isolated from the neonatal intensive care unit patients Mochamad Djunaedi	03-C-3 [ABS-129] Related factors analyzation of warfarin anticoagulation in patients with primary nephrotic syndrome Haiyan Lao
03-A-4 [ABS-203] Study on safety and efficacy of Indonesian combination plant extract as active ingredients in cosmetic Maily	03-B-4 [ABS-96] Antibiotic de-escalation in patients with pneumonia in the intensive care unit: a systematic review and meta-analysis Rahela Ambaras Khan	03-C-4 [ABS-36] Correlation between heart disease and probability of dying among hypertensive and / diabetic patients who undergone hemodialysis in a Hemodialysis Center Jakarta, Indonesia and Penang, Malaysia Diana Laila Ramatillah
03-A-5 [ABS-349] In vivo antimalarial activity and acute toxicological assesment of Andrographis paniculata tablet (AS202-01) Aty Widyawaruyanti	03-B-5 [ABS-13] Outpatient parenteral antibiotic therapy in pediatric patient at the top referral hospital Rina Mutiara	03-C-5 [ABS-214] Effect of calcium channel blockers on blood pressure in hypertensive hemodialysis patients Amjad Khan
03-A-6 [ABS-340] Efficacy and safety of permethrin 5% topical gel vs. placebo for rosacea: a double-blind randomized controlled clinical trial K. Raoufinejad	03-B-6 [ABS-282] Misuse of antibiotics for prevention of surgical wound infections in Obstetrics and Gynaecology Department at a Nigerian Tertiary Hospital Usman Abubakar	03-C-6 [ABS-259] CYP2C19*17 polymorphisms and platelet aggregation in coronary artery disease patients with clopidogrel Ike D Rochmawati

SUNDAY, 30 July 2017 - (12.45-14.25)

Oral Presentation Day-3 Room D (MALAPARI)	Oral Presentation Day-3 Room E (SONOKEMBANG)	Oral Presentation Day-3 Room F (SONOKELING)
Chairpersons: Dr. Chrismawan Ardianto Ms. Ratna Karunia Ilahi	Chairpersons: Dr. Maywan Hariono Mr. Fransiscus Cahyo Kristianto	Chairpersons: Prof. Hiroyuki Kamei Ms. Aluwi Nirwana-sani
03-D-1 [ABS-107] Mechanism of altered metformin distribution in acute hyperuricemia rats Guoqiang Zhang	03-E-1 [ABS-194] Health technology assessment of olopatadine for allergic diseases Xiaotong li	03-F-1 [ABS-292] The interplay between treating disease states and enabling drug abuse Rashida Forte
03-D-2 [ABS-157] Decreasing of necrotic and apoptotic muscularis and hepar cells in diabetic mice treated by vanadyl sulphate Ria Fitrah A	03-E-2 [ABS-316] Megadose methylprednisolone on total lymphocyte count and disease activity in Systemic Lupus Erythematosus (SLE) Jainuri Erik Pratama	03-F-2 [ABS-135] A study of the factors affecting intolerance towards cholinesterase inhibitors in elderly patients with dementia (The FACED Study) Rosmaliah Alias
03-D-3 [ABS-104] Medication optimization of diabetes treatment with medication therapy management (MTM) service in Rumah Diabetes UBAYA Lanae Nopiani	03-E-3 [ABS-332] The relation of β 2-adrenergic receptor polymorphisms with the effectiveness of β 2-agonists on asthmatics Sri Haryanti	03-F-3 [ABS-329] Serotonin syndrome and the combined selegeline and amitriptiline in Indonesian parkinson disease patient: a case report Lidya Karina
03-D-4 [ABS-296] Impact of dipeptidyl peptidase-4 inhibitors on serum adiponectin: a meta-analysis Xin Liu	03-E-4 [ABS-15] Evaluation of antiemetic guidelines in patients undergoing haematopoietic stem cell transplant in Singapore General Hospital Marcus Eng Hwa TEO	03-F-4 [ABS-217] 3-year outcomes of patients treated with clozapine at Okehazama Hospital Ippei Takeuchi
03-D-5 [ABS-330] Clinical treatment outcomes and demographic characteristics of obesity patients at selected clinical settings in Penang, Malaysia Muhammad Ahsan Iftikhar Baig	03-E-5 [ABS-277] Evaluation of factors affecting virological and immunological responses of nevirapine- and efavirenz- based highly active antiretroviral therapy regimens in retroviral disease naive patients Aliza Alias	03-F-5 [ABS-81] Patterns of antidepressants utilization among depressive men in Malaysia: a survey Abdul Rahman Fata Nahas
03-D-6 [ABS-61] Socioeconomic status and obesity in adult rural population in Indonesia Aris Widayati	03-E-6 [ABS-353] International Comparative Study on the guidelines for assessing immunogenicity to therapeutic monoclonal antibodies focusing on Europe, United States., Canada and South Korea Hyunjun Shim	03-F-6 [ABS-164] The off-label use of anticonvulsant at a Private Hospital in Yogyakarta Bangunawati Rahajeng

SUNDAY, 30 July 2017 - (12.45-14.25)

Oral Presentation Day-3 Room A (KENARI)	Oral Presentation Day-3 Room B (KERUING)	Oral Presentation Day-3 Room C (MAHOGANI)
<p>Chairpersons: Dr. Baharuddin Ibrahim Ms. Arie Sulistyarini</p>	<p>Chairpersons: A/Prof. Lunawati Bennet Ms. Zamrotul Izzah</p>	<p>Chairpersons: Ms. Yong Pei Chean Dr. Adji Prayitno</p>
<p>03-A-7 [ABS-167] Evaluation of piperine affinity to colon cancer receptor using in silico study Sabtanti Harimurti</p>	<p>03-B-7 [ABS-289] Drug utilization study of antibiotic on osteomyelitis Aniek Setiya Budiati</p>	<p>03-C-7 [ABS-74] Development of a novel pre-procedural prediction model for contrast-induced nephropathy Xiao-cong Zuo</p>
<p>03-A-8 [ABS-172] Combinational effect of ethyl acetate extract of Noni (<i>Morinda citrifolia</i> L.) and 5-Fluorouracil compound as Co-chemotherapy in colon cancer by in silico and in vitro assay Rifki Febriansah</p>	<p>03-B-8 [ABS-310] Antiretroviral therapy on HIV/AIDS patients at a General Hospital in Padang, West Sumatra, Indonesia: socio-demographic profile and drug evaluation Yori Yuliandra</p>	<p>03-C-8 [ABS-76] Factors affecting mortality among end stage renal disease patients undergoing hemodialysis in Khartoum, Sudan Omalhassan Amir</p>
<p>03-A-9 [ABS-264] Green tea (<i>Camellia sinensis</i>) constituent (-) - Epigallocatehin Gallate induces increasing of DNA repair enzyme O6-Alkylguanine-DNA alkyltransferase in wistar rat liver cell culture Djoko Agus Purwanto</p>	<p>03-B-9 [ABS-32] Medication errors related to antibiotics: prevalence, potential clinical outcome and risk factors Thi-Ha Vo</p>	<p>03-C-9 [ABS-103] The relationship between hemoglobin levels and fatigue in hemodialysis patients Candra Eka Puspitasari</p>
<p>03-A-10 [ABS-59] Probiotics Supplementation Therapy for neonatal jaundice: A systematic review and meta-analysis Zhe Chen</p>	<p>03-B-10 [ABS-365] Factors affecting the rational use of NSAID in self-medication (study in community pharmacies client in Surabaya) Liza Pristianty</p>	

SUNDAY, 30 July 2017 - (12.45-14.25)

Oral Presentation Day-3 Room D (MALAPARI)	Oral Presentation Day-3 Room E (SONOKEMBANG)	Oral Presentation Day-3 Room F (SONOKELING)
Chairpersons: Dr. Chrismawan Ardianto Ms. Ratna Karunia Ilahi	Chairpersons: Dr. Maywan Hariono Mr. Fransiscus Cahyo Kristianto	Chairpersons: Prof. Hiroyuki Kamei Ms. Aluwi Nirwana-sani
03-D-7 [ABS-89] Health burden of overweight and obesity: mortality and years of life lost (YLL) diseases in Indonesia 2015 Susi Ari Kristina	03-E-7 [ABS-106] The effectiveness of patient decision aid in the management of diabetes medication to improve patient decision, medication knowledge and therapeutic outcome Lisa Aditama	03-F-7 [ABS-222] Identification of drug-related problems in Hospitalized Children of 0-2 years caused by febrile seizure, a 1-year retrospective study Manggau Marianti
03-D-8 [ABS-234] Clinical characteristic of parenteral nutrition practices in a neonatal intensive care unit hospital Dr. M Djamil Padang Yelly Oktavia Sari	03-E-8 [ABS-35] Attitude and behaviour towards use of medications among East Javan communities: a pilot study Zaidi A	03-F-8 [ABS-251] The use of neuromuscular-blocking agent a study among patients in integrated surgical center building of Dr. Soetomo Hospital Surabaya Suharjono
	03-E-9 [ABS-147] Public counseling and booklet handouts: a strategical approach to increase the compliance of diabetes mellitus type 2 patients Nora Wulandari	03-F-9 [ABS-71] An internet-based survey on factors associated with attitudes towards suicide among doctors, nurses and pharmacists Takushi Hotta
		03-F-10 [ABS-350] The Effect of Dexmedetomidine on Anxiety of Patients with Mechanical Ventilation Eunjeong Park

SUNDAY, 30 July 2017 - (12.45-14.25)

Oral Presentation Day-3 Ballroom G (TENTREM I)	Oral Presentation Day-3 Ballroom H (TENTREM II)	Oral Presentation Day-3 Ballroom I (TENTREM III)
Chairpersons: Dr. Takashi Egawa Ms. Mutiara Herawati	Chairpersons: Ms. Dita Maria Virginia Mr. Andi Hermansyah	Chairpersons: Dr. Ching Jou Lim Dr. Lia Amalia
03-G (Tentrem I)-1 [ABS-177] Diabetes-related pharmaceutical industry funding of health professionals and patient groups in Australia Swetika Swandari	03-H (Tentrem II)-1 [ABS-109] Smoking cessation counseling in Malaysia: perceptions and barriers among community pharmacists Muhammad Qamar	03-I (Tentrem III)-1 [ABS-171] The importance of prescription screening by pharmacist for preventing medication error in outpatient of Muhammadiyah Lamongan Hospital Imanda Dyah Rahmadani
03-G (Tentrem I)-2 [ABS-160] National health insurance patients satisfaction in Outpatient Department Local Government Hospital Fithria Dyah Ayu Suryanegara	03-H (Tentrem II)-2 [ABS-325] Eyedrops use perception during fasting Bambang Subakti Zulkarnain	03-I (Tentrem III)-2 [ABS-294] The impact of Intervention by pharmacists to prevent medication errors in out-patients pharmaceutical care of Mintohardjo Naval Hospital Jakarta Azrifitria
03-G (Tentrem I)-3 [ABS-249] Pharmacoeconomic analysis of trihexyphenidyl use in schizophrenic patients at Jawa Barat Psychiatric Hospital Siti Farah Rahmawati	03-H (Tentrem II)-3 [ABS-9] Organophosphat toxicity and personal protective equipment in red chili farmers in Ciamis, Indonesia Perwitarsari DA	03-I (Tentrem III)-3 [ABS-246] Medication reconciliation as a tool to reduce medication discrepancy Nia Kurnia Sholihat
03-G (Tentrem I)-4 [ABS-52] The cost-effectiveness of HPV vaccination in South East Asian Region Setiawan D	03-H (Tentrem II)-4 [ABS-301] Assessment of practice of Unused medication disposal and awareness of return your medicine program among general public in Sarawak, Malaysia Nor Liana bt Che Yaacob	03-I (Tentrem III)-4 [ABS-276] Medication-Induced Adverse Drug Reaction in the Elderly Hadijah Mohd Taib
03-G (Tentrem I)-5 [ABS-313] Effectiveness and cost treatment analysis of trifluoperazine and haloperidol combined with trihexyphenidil in Schizophrenic Hospitalized Patients in Regional Hospital Madani Central Sulawesi Muhamad Rinaldhi Tandah	03-H (Tentrem II)-5 [ABS-184] Evaluation of hand sanitizer gel from essential oil of clove leaves (Syzygium aromaticum) based on consumer acceptance Indra Putra Taufani	03-I (Tentrem III) -5 [ABS-70] Patient reporting of Adverse Drug Reactions: Survey of public awareness and predictors of confidence to report Vidhya Hariraj
03-G (B Tentrem I)-6 [ABS-342] The effect of prospective payment system on cost of illness and length of stay in type 2 diabetes mellitus patients at PKU Muhammadiyah Hospital Yogyakarta Endang Yuniarti	03-H (Tentrem II)-6 [ABS-226] Relationship between lead levels in hair samples and academic achievements in a sample of Iranian Pharmacy Students Farshad Hashemian	03-I(Tentrem III)-6 [ABS-80] The influence of adverse reactions of antituberculosis drugs to non-adherence in drug use Yuni Priyandani
03-G (Tentrem I)-7 [ABS-166] Prescribing patterns in National Health Insurance (BPJS) era at the Private Hospital Elly Usman	03-H (Tentrem II)-7 [ABS-352] Non-publication and delays in publication of negative results in advanced breast cancer trials Seung Yeon Song	03-I(Tentrem III)-7 [ABS-351] A comprehensive pharmacokinetic modeling of aceclofenac metabolism to major metabolites in healthy volunteers Eunyoung Kim

ORAL PRESENTATIONS

SATURDAY, 29 July 2017

Oral Presentation Day-2 Room E (SONOKEMBANG)

Chairpersons:

Dr. Vivian Lee

Dr. Rizka Andalusia

02-E-1

[ABS-10] An evaluation of a trainers module for community-based learning on self-medication

Adji Prayitno Setiadi¹, Yosi Wibowo¹, Eko Setiawan¹, Bobby Presley¹, Ika Mulyono¹, Ari Susilo Wardhani²

¹Pusat Informasi Obat dan Layanan Kefarmasian (PIOLK) -Faculty of Pharmacy, Surabaya University, Indonesia

²East Java Provincial Health Office, Ministry of Health Republic of Indonesia

02-E-2

[ABS-141] Healthcare collaboration program of pharmacist and midwife at maternal posyandu in preventing emergency cases during pregnancy and labor

Anita Purnamayanti¹, Kusuma Hendrajaya², Ida Istiningtyas³, Tri Endah Fatmawati⁴, Wifa'ul Husna⁴, Chelsea Resyana⁴

¹Department of Clinical and Community Pharmacy, Faculty of Pharmacy, Universitas Surabaya, Indonesia

²Department of Chemical Pharmacy, Faculty of Pharmacy, Universitas Surabaya, Indonesia

³Midwife of Wangkal, Krembung Sub-District, Sidoarjo, Indonesia

⁴Pharmacy Students of Faculty of Pharmacy, Universitas Surabaya, Indonesia

02-E-3

[ABS-17] Community-based learning improves self-medication knowledge in Indonesian community cadres: a pre- test post-test study

Yosi Wibowo¹, Adji Prayitno Setiadi¹, Eko Setiawan¹, Bobby Presley¹, Ika Mulyono¹, Arif Zaidi²

¹Pusat Informasi Obat dan Layanan Kefarmasian (PIOLK) - Fakultas Farmasi, Universitas Surabaya

²East Java Provincial Health Office, Ministry of Health Republic of Indonesia

02-E-4

[ABS-136] Physicians' adherence to clinical practice guideline in treating of geriatric hypertensive patients with cardiovascular diseases

Alim Alim Altemim¹, Azmi Saiff²
Surabaya
PENGESAHAN
Surabaya

¹School of Pharmacy, Management and Science University (MSU), Malaysia

²School of Pharmacy, Sains Malaysia University, Malaysia



Dr. Christina Avanti, M.Si., Apt.
Chairpersons:

A/Prof. Romeo Ongpoy

Ms. Vitis Ratna Utami

SATURDAY, 29 July 2017

Oral Presentation Day-2 Room F (SONOKELING)

02-F-1

[ABS-88] The occurrence of hypertension in chronic obstructive pulmonary disease (COPD) patients who treated with β -2 agonists bronchodilators

Aprilita Rina Yanti Eff

Departement of Pharmacy Faculty of Health Sciences Esa Unggul University, Indonesia

02-F-2

[ABS-290] Drug utilization pattern of asthma in asthma patients at Puskesmas Sukmajaya Depok 2015

Nanda Asyura Rizkyani, Azizahwati, Aflaha Ashari

Faculty of Pharmacy, Universitas Indonesia, Indonesia

02-F-3

[ABS-63] Drug therapeutic assessment in inpatient wards at a 160 beds hospital in Pekanbaru, Indonesia

Laelatul Muniroh, Monica Afrinda, Rezi Agustin, Dian Utami, Shery Melliann

Department of Pharmacy, Medical Ancillary Division, Eka Hospital Pekanbaru, Indonesia

02-F-4

[ABS-328] Missing doses in intensive care units (ICUs) in King Fahad Medical City, Saudi Arabia: a descriptive study

Mukhtar Jawad Alomar¹, **Sohail Ahmad**², Yahya Moustafa¹, Lafi Sal Alharbi¹

¹Department of Pharmacy Administration, King Fahad Medical City, Kingdom of Saudi Arabia

²Department of Clinical Pharmacy, MAHSA University, Malaysia

Healthcare Collaboration Program of Pharmacist and Midwife at Maternal Posyandu in Preventing Emergency Cases during Pregnancy and Labor

Anita Purnamayanti¹⁾, Kusuma Hendrajaya²⁾

¹ Dept of Clinical and Community Pharmacy, Faculty of Pharmacy, Universitas Surabaya, Surabaya, Indonesia

² Dept of Chemical Pharmacy, Faculty of Pharmacy, Universitas Surabaya, Surabaya, Indonesia

Ida Istiningtyas³⁾, Tri Endah Fatmawati⁴⁾, Wifa'ul Husna⁴⁾, Chelsea Resyana⁴⁾

³ Midwife of Wangkal, Krembung Sub-District, Sidoarjo, Indonesia

⁴ Pharmacy Students of Faculty of Pharmacy, Universitas Surabaya, Surabaya, Indonesia

PENGESAHAN

Salinan/ Foto kopi sesuai dengan aslinya



ABSTRACT: There is no healthcare collaboration program at Maternal Posyandu in Indonesia. This study aimed to evaluate the efficacy of healthcare collaboration programs conducted by pharmacist and midwife at Maternal Posyandu. Pregnant women from four Posyandu were receiving healthcare collaboration programs provided by midwife and pharmacist (intervention group); or usual care (control group). Both groups were followed prospectively for 1 month. At baseline, no significant differences in demographic, maternal, and clinical characteristics observed. At 1 month, compared to control group, the intervention group had significantly ($p=0,026$) better knowledge in preventing anemia and hypertension in pregnancy. No significant differences ($p=0,606$) on Blood Pressure and Hemoglobine as objective parameters of compliance in taking iron supplements, calcium, and vitamin D tablets. No pregnancy and labor emergency cases. Healthcare collaboration program conducted by pharmacist and midwife at Maternal Posyandu was effective in increasing maternal knowledge and preventing emergency cases during pregnancy and labor.

1 INTRODUCTION

Prevention and management of Anemia during Pregnancy is a National Program in Indonesia; however Post Partum Hemorrhage (PPH) and Hypertension in Pregnancy (HiP) remains the two leading causes of maternal mortality in Indonesia. (Kemenkes RI, 2013). The National Program in preventing maternal mortality – including PPH and HiP – in community this program is held by midwife at Maternal Posyandu. Posyandu is a public-based healthcare program supervised by midwife; mainly handling maternal, pediatric, and geriatric health preventive and promotive healthcare program.

PPH can be prevented by giving the iron supplementation, which contains of ferrous sulphate, folic acid, and vitamin B12. The blood loss during labor can not be compensate by maternal total blood volume, due to anemia. Anemia usually developed after 20th gestational weeks until labor. Since the plasma volume increases early in pregnancy and faster than the increases in red blood cells volume, the hematocrit falls until the ends the of second trimester. The increases in blood volume progress until term. This is a physiological adaptation due to increasing needs for extra blood supply to the uterus, extra metabolic needs of the fetus, increased perfusions of other organs – especially kidneys, and to compensate maternal blood loss during birth delivery. Thus, anemia in pregnancy is a physiologic conditions. Iron supplementation should be taken at least 6 month period of gestation and 3 month period postpartum, in order to

prevent PPH (WHO, 2009) Indonesian pregnant women are at greater risk suffered from anemia, due to low intake of protein diet. Iron, folic acid and vitamin B₁₂ deficiencies is a common condition in pregnancy.

Pregnant women are also at risk of calcium and vitamin D deficiencies, due to low intake of milk and dairy product in Indonesian meals. Calcium and vitamin D supplementation during pregnancy were given, due to the increase needs for fetal growth. This is the main indication for giving calcium and vitamin D in pregnant women. (WHO, 2013) But calcium and vitamin D could also prevent hypertension. (Vaidya A, et al, 2012). Hypertension in Pregnancy is defined as hypertension which developed at 20th gestational weeks until 40 days post partum. Maternal age during pregnancy is associated with the high blood pressure in third trimester. (Gaillard et al, 2011).

Maternal adherence in taking iron supplementation, calcium and vitamin D tablets will increase maternal and fetal quality of life throughout pregnancy, and in turn, preventing the emergency cases during pregnancy and labor. Maternal low literacy in pregnancy or labor risk factors and in the importance of iron supplementation as well as calcium and vitamin D supplementation in reducing that risks would in turn affecting maternal's adherence in taking the supplements. Pregnant women's knowledge about emergency cases during pregnancy and labor, and its preventions would lead to better understanding, thus

lead to drug adherence and compliance (BKKBN, 2012)

Pharmacist plays important role in maintaining the maternal compliance, thus in turn reducing maternal mortality due to anemia and hypertension in pregnancy. But there is still no healthcare collaboration program between pharmacists and midwives – especially ante natal care (ANC) program in preventing iron deficiency anemia nor HiP at the Maternal Posyandu or even at home visit. In general, ANC team in community was consist of GP, midwife, and nurse. (Depkes RI, 2011). Midwives are the most health professional seeked by Indonesian pregnant women (88%). (Kemenkes RI, 2013)

Midwife serves ANC at Maternal Posyandu monthly and at home visit in Krembung sub district, Sidoarjo. Occasionally the other healthcare professionals counsel pregnant women at Maternal Posyandu or home visit. There are also local house wives called “Kader Posyandu” whose supports midwife’s program as volunteers at maternal, pediatric, as well as geriatric Posyandu. They help midwife in inviting people and maintaining them to join Posyandu in order to get better healthcare for everyone in their community.

2. METHODS

This study design was pretest-posttest with control group. Krembung sub district has 4 area called “dusun” which separated by cane or ricefield area. Each of the dusun has one Posyandu. We randomly divided pregnant women from 2 Posyandus as control group and form the other 2 Posyandus as intervention group. Both group were followed prospectively for 1 month.

Pregnant women included in this study were those whose got ANC program form midwife at one of 4 Maternal Posyandu at Krembung sub district, Sidoarjo; able to communicate in oral and written Bahasa; willingness to be involved in this study was proven by signing informed consent form. We exclude the pregnant women with a parasitic infections or blood disorders.

Maternal’s knowledge and drugs compliance were measured before and after the healthcare collaboration or usual ANC programs. Blood Pressure (BP) and Hemoglobine (Hb) measurements were the objective parameters of compliance in taking iron supplements, calcium, and vitamin D tablets. BP was measured by Omron[®] digital sphygmomanometer and the Hb was measured by Quick Check[®] apparatus. Dipstick test “Combur Test” performed to analyzed proteinuria in pregnant women, as one of signs in developing pre eclampsia or eclampsia. These instruments had been chosen due to its simplicity and accuracy to be performed in the community.

The subjective parameter of compliance was measured by 6 items Morisky Questionnaire and maternal’s knowledge was measured using a validated questionnaire. Validation of these questionnaires in Bahasa was done in the previous study. (Adawiyani R, 2013).

Level of iron, calcium, and vitamine D in the blood could only be measured in the laboratory, thus these are not the focus of this study. Midwife had done ANC work-up to all of the pregnant women in Maternal Posyandus and the results in detail are not the focus of this study. Both groups received education from midwife about sign and symptoms of emergency cases during pregnancy and labor, when and where to refer. Pharmacist and midwife had developed a modul for training local house wives as “Kader Posyandu” to be aware of pregnant women whose complained about the symptoms of emergency cases, and should refer her to the midwife or the doctor. Midwife had adopted tool called “doctor Pudji Rochyati Risk Score” from Dr. Soetomo Hospital, in assessing maternal risk score of suffering from emergency cases during pregnancy and labor.

Pregnant women from intervention group had been received healthcare collaboration program provided by midwife and pharmacist at Maternal Posyandu and at home visit. Midwife was responsible for maternal and fetal health conditions, and pharmacist was responsible for maintaining maternal compliance in taking iron, calcium, and vitamin D tablets.

The oral and written (booklet) drug informations had been given to the pregnant women by pharmacist at Maternal Posyandu, home visit and once again at Posyandu with two weeks interval in between. The “Tablet Tambah Darah Booklet – Meningkatkan Kesehatan Bunda dan Bayi” (iron supplementation booklet) used in this study was created by Adawiyani R (2013) for her theses study. The other booklet we had been used was “Calsium and Vitamine D – Meningkatkan Kesehatan Bunda dan Bayi”

The control group had been received usual program provided by midwife at Maternal Posyandu and at home visit. The oral only drug informations had been given to the pregnant women by pharmacist at Maternal Posyandu, home visit and once again at Posyandu with two weeks interval in between.

Oral and written drugs information contents were the same, i.e. pregnancy periode, definition of anemia and hypertension in pregnancy, preventive care with the iron, calcium, vitamin D supplementation during pregnancy, the important of the drugs compliance in preventing emergency cases during pregnancy and labor – especially PPH and HiP.

Varibility in diets and other source of information about iron, calcium, and vitamine D supplementations were recorded as confounding factors. At the

end of this study, all pregnant women in the control group had given all the booklets.

The results of this study will be presented in descriptive and inferential statistics. Maternal's knowledge and compliance before and after intervention in each group was analyzed by using Wilcoxon Test; and Mann Whitney Test for between group comparison – due to its abnormal data distribution.

3. RESULTS AND DISCUSSION

Thirty two pregnant women from 4 Maternal Posyandus was met the inclusion criterias of this study. Only 25 of them following study enrollment, 11 pregnant women were in control group and the other 14 women were in the intervention group. Seven other pregnant women refused to be involved in this study. Two pregnant women in the intervention group had lost to follow up, due to moved to other town. Thus, there were 11 pregnant women in the control study and 12 ones in the intervention group.

At baseline, no statistically significant differences in demographic, maternal, and clinical characteristics observed. Maternal characteristics were : maternal age, periode of pregnancy (trimester), number of gravid, number of alive children, number of premature baby, and Midwife's ANC frequency; as well as in other source of informastion about iron, calcium, and vitamine D supplementation (Table 1). Most of pregnant women had 1 alive child.

Table 1. Demografic, Maternal, and Clinical Characteristics

Characteristics	Intervention Group (n = 12)	Control Group (n = 11)
Maternal's Age (years) (mean±SD)	27,17 ±4,448	26,36 ±5,537
Level of Maternal Education :		
a. Elementary School	-	-
b. Junior High School	4 (33,3%)	10 (90,9%)
c. Senior High School	7 (58,3%)	1 (9,1%)
d. Diploma	1 (8,3%)	-
Maternal's Job		
a. Employed	8 (66,7%)	4 (36,4%)
b. Unemployed	4 (33,3%)	7 (63,6%)
Pregnancy Period :		
a. Trimester 1	1 (8,3%)	-
b. Trimester 2	6 (50,0%)	6 (54,5%)
c. Trimester 3	5 (41,7%)	5 (45,5%)
Number of Gravid	0,67±0,651	0,45±0,688
ANC Frequency	4,92±3,476	4,73±3,495
ANC interval :		
a. monthly	7 (58,3%)	8 (72,7%)
b. 2x/month	5 (41,7%)	3 (27,3%)
c. Others	-	-

Descriptively, pretest and posttest results of maternal's level of knowledge of the importance in taking iron, calcium, and vitamine D supplementation in intervention group was better than in control study. Both of groups showed increased in maternal knowledge before and after the study. (Table 2)

Table 2. Maternal Level of Knowledge in Taking Iron, Calsium, and Vitamine D Supplementation (6 items Morisky Questionnaire)

Maternal Level of Knowledge	Control Gorup		Intervention Group	
	Pretest (%)	Posttest (%)	Pretest (%)	Posttest (%)
High	18,18	45,45	41,67	100,00
Moderate	72,73	45,45	41,67	-
Low	9,1	9,1	16,66	-

Pregnant women in the intervention group were all (100%) got high level of knowledge after the intervention, in other word – their knowledge increased more than twice. This is consistent with Adawiyani in small RCT study (2013), found that maternal's level of knowledge had significantly increased in intervention group whose received both oral and written information.

Six Items Morisky Questionnaire resulted in maternal's motivation level in taking the supplements, as well as the knowledge. The results of maternal's level of knowledge and motivation in taking iron, calcium, and vitamine D supplementation form 6 items Morisky Questionnaire then transformed to the Case Management Adherence Guideline (CMAG) Quadrant, resulting in maternal intention to drug compliance. (Adawiyani R, 2013). (Table 3 and Table 4).

Table 3. Maternal's Intention to Drug Compliance (CMAG Quadrant) in the Intervention Group

Quadrant III (pretest : 16,67%, posttest : 8,33%)	Quadrant II (pretest : 16,67%, posttest : 0 %)
High Level of Knowledge Low Level of Motivation	Low Level of Knowledge High Level of Motivation
Quadrant IV (pretest : 25%, posttest : 66,67%)	Quadrant I (pretest : 41,66%, posttest : 25%)
High Level of Knowledge High Level of Motivation	Low Level of Knowledge Low Level of Motivation

At 1 month after the intervention, there was almost 3 times increase in numbers of pregnant women reached Quadrant IV (high level of knowledge and motivation) form the intervention group. interesting-

ly, there was 16,67% reduction on the maternal's motivation level in Quadrant II (low level of knowledge – high level of motivation). Pregnant women in this quadrant had been loss their motivation in taking the supplements due to their believe that the baby to be born would not need that tablets any longer. Maternal believe could affect their behavior in taking the supplements during pregnancy. They were supposed to take the tablets regularly, because of the increased risk of developing emergency cases during pregnancy and labor (Gaillard R, 2011. Milman N, 2012).

Table 4. Maternal's Intention to Drug Compliance (CMAG Quadrant) in the Control Group

Quadrant III (pretest : 36,36%, posttest : 18,18%)	Quadrant II (pretest : 18,18%, posttest : 54,55%)
High Level of Knowledge Low Level of Motivation	Low Level of Knowledge High Level of Motivation
Quadrant IV (pretest : 36,36%, posttest : 18,18%)	Quadrant I (pretest : 27,27%, posttest : 0 %)
High Level of Knowledge High Level of Motivation	Low Level of Knowledge Low Level of Motivation

On the other side, there were halved reduction on maternal' level of knowledge and motivation in taking iron, calcium, and vitamin D supplements. This could be due to the oral only drugs information given by pharmacist that leads to relatively short term memory, despite of the drug informations were given every 2 weeks period. Both group received drug informations form pharmacist 3 times troughout the study. But the oral and written drug informations would lasts longer. This findings is consistent with other study conducted by Joseph J, et al (2013)



Figure 1. Iron Supplementation Booklet



Figure 2. Calcium and Vitamin D Supplementation Booklet

Level of knowledge and motivation derived from Morisky questionnaire used in this study were the subjective parameter of maternal drug compliance. The objective parameters of maternal drug compliance comprised of Blood Pressure (BP) and Hemoglobin (Hb) measurements. The exact level of calcium, vitamin D, and iron measurements in the blood could only be performed in the laboratory, thus these were not our focus of the study – due to the long distance and difficulty in accessing the laboratory.

The results of this study then processed using inferential statistics analysis. Maternal's knowledge and compliance before and after intervention in each group was analyzed by using Wilcoxon Test; and Mann Whitney Test for between group comparison – due to its abnormal data distribution.

There was no statistically significant differences on maternal's knowledge pretest compare to posttest in control group ($p=0,103$). But, there was significant differences on maternal's knowledge pretest, compare to posttest in intervention group ($p=0,004$). There was no statistically differences on maternal's knowledge pretest between control and intervention group. At 1 month follow up period, the intervention group had significantly ($p=0,026$) better knowledge in preventing anemia and hypertension in pregnancy.

There was no statistically differences on maternal's Hb pretest between control and intervention group ($p=0,249$). At 1 month follow up period, the intervention group had no significantly differences on maternal's Hb posttest between control and intervention group ($p=0,606$). There were no maternal's Hb value under 11,0 mg/dL in both groups.

Table 5. Level of Maternal Hemoglobine

pre-test and post-test level of Hb in control group	$p=0,000$
pre-test and post-test level of Hb in intervention group	$p=0,181$



Figure 3. Pharmacist Home Visit

There were no statistically significant differences on Blood Pressure as objective parameters of compliance in taking iron supplements, calcium, and vitamin D tablets. All of the pregnant women had had relatively normal BP of < 140/80 mmHg during pregnancy and labor.

There was only 1 pregnant woman from control group who had 1+ proteinuria with the dipstick test. Midwife then performed close monitoring during pregnancy and labor, despite of normal finding in her BPs and urine tests afterwards. There were no such case nor other abnormality in the intervention group. There were no pregnancy and labor emergency cases in both group.

Limitation of the study is that there was pharmacist's oral only drug informations intervention in control group. This was done in order to give better understanding amongst pregnant women in taking iron, calcium, and vitamin D supplementation which was important for the mother and the baby. Thus, avoiding harm for not taking the supplements.

CONCLUSION

Healthcare collaboration program conducted by pharmacist and midwife at Maternal Posyandu was effective in increasing maternal knowledge and preventing emergency cases during pregnancy and labor.

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[ABS - 141]

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**The 17th Asian Conference on Clinical Pharmacy (ACCP 17)
“Unity in Diversity and the Standardization of Clinical Pharmacy Services”
28 – 30 JULY 2017, Yogyakarta, INDONESIA**

Dear Dr. Anita Purnamayanti

We are very pleased to inform you that your abstract entitled, "**Healthcare Collaboration Program of Pharmacist and Midwife at Maternal Posyandu in Preventing Emergency Cases during Pregnancy and Labor**" (ABS-141) has been accepted for **Oral presentation** at the 17th Asian Conference on Clinical Pharmacy (ACCP 17) scheduled on 28 – 30 July 2017 in Yogyakarta, Indonesia. The exact time and room of your presentation session will be specified on the ACCP 2017 website: <http://accp2017.ff.unair.ac.id/> at the beginning of June, 2017.

Please note that individual requests for specific presentation dates and/or times cannot be addressed due to the very large number of presentations and other factors that the program committee must consider when scheduling the overall program. Oral presentations cannot exceed 7 min (in order to allow 3 min for questions). The details of oral presentation guideline is available on the conference website.

It is a condition of abstract acceptance that you or a nominated presenting co-author registers for the conference before **20th July 2017**. The abstracts of all unregistered presenters will be removed from the oral session programme after this date. To register to attend the conference, please follow the link: <http://accp2017.ff.unair.ac.id/submission/#iframe>.

Should the addressee above not be the nominated presenter, please inform us the name and email address of the presenter immediately to: accp-scientific@ff.unair.ac.id with your **Abstract ID number listed above on all communications**.

Again, congratulations on the acceptance of your abstract. On behalf of the Scientific Program Committee, we look forward to your full participation in the 17th ACCP Conference in Yogyakarta.

Yours Sincerely,



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