



PROCEEDING

THE 2ND INTERNATIONAL CONFERENCE ON

PHARMACY AND ADVANCED PHARMACEUTICAL SCIENCES

*Book 2:
Clinical and Social Pharmacy*

Faculty of Pharmacy
Universitas Gadjah Mada
Yogyakarta Indonesia
July 2011

PROCEEDING

“The 2nd International Conference on

Pharmacy and Advanced Pharmaceutical Sciences”

Book II : Clinical and Social Pharmacy

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Preface from the Editor

In order to disseminate to broader community, a proceeding consisted of scientific papers presented at the 2nd International Conference on Pharmacy and Advanced Pharmaceutical Sciences, held in Yogyakarta, Indonesia, 19 – 20 July 2011, is produced. The proceeding is divided into two books i.e. Clinical and Social Pharmacy and Pharmaceutical Science and Technology.

The conference was organized by the faculty of Pharmacy Universitas Gadjah Mada in collaboration with the Nara Institute of Science and Technology and Deutscher Akademischer Austausch Dienst-German Academic Exchange Service. This event was part of the faculty's 65th Anniversary celebration as well as the 62th Anniversary of the Universitas Gadjah Mada. In this conference participants from 6 countries have participated of which 14 lectures within the field of Pharmaceutical care and sciences were presented by our invited speakers, followed by presentation of 160 researchers in form of oral and poster presentation. On behalf of the organizing committee, I would like to thank all invited speakers and presenters for participating the in International Conference on Pharmacy and Advanced Pharmaceutical Sciences and for giving valuable contribution to this proceeding

Acknowledgements are addressed to the Rector of Universitas Gadjah Mada, the Nara Institute of Science and Technology, Japan, Deutscher Akademischer Austausch Dienst-German Academic Exchange Service in collaboration with Federal Foreign Office as well as all sponsors for the nice collaboration in bringing forth the conference. Furthermore, personally, I would like to express my deep appreciation to the members of the Organizing Committee for the good teamwork and the great effort to bring success to the conference and in producing the proceeding.

Finally, I hope this proceeding will give a remarkable contribution to broad scientific research, especially in the field of pharmacy and pharmaceutical sciences.

Yogyakarta, July 2011

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Welcome to Yogyakarta,

Distinguished Ladies and Gentlemen,

On behalf of the Scientific and Organizing Committee, it is such a great pleasure for me to welcome all participants to Yogyakarta, to the 2nd International Conference on Pharmacy and Advanced Pharmaceutical Sciences 2011.

The conference is organized by the faculty of Pharmacy Universitas Gadjah Mada in collaboration with the Nara Institute of Science and Technology and Deutscher Akademischer Austausch Dienst-German Academic Exchange Service. This event is as part of the faculty's 65th Anniversary celebration as well as the 62th Anniversary of the Universitas Gadjah Mada. In this conference participants from 7 countries have participated of which 14 lectures within the field of Pharmaceutical care and sciences will be presented by our invited speakers, followed by presentation of 160 researchers in form of oral and poster presentation. Herewith we would like to express our gratitude to all speakers and presenters for joint us today to share advance knowledge and expertise in this scientific event.

The Organizing Committee gratefully acknowledges the Rector of Universitas Gadjah Mada, the Nara Institute of Science and Technology, Japan, Deutscher Akademischer Austausch Dienst-German Academic Exchange Service in co-operation with Federal Foreign Office well as all sponsors for the nice collaboration in bringing forth this conference. Furthermore, personally, I would like to express my deep appreciation to the members of the Organizing Committee, for the good teamwork and their great effort to bring success to the conference.

Finally, I wish all participants could benefiting from the Conference and have anenjoyable moments in Yogyakarta

Remarks of the Dean of Faculty

Assalamu'alaikumwr. wb.

Distinguished ladies & gentlemen.

First of all, on behalf of the Faculty of Pharmacy Universitas Gadjah Mada, I would like to welcome to all of you in Yogyakarta, thank you very much for your attention to come and to attend the 2nd International Conference on Pharmacy and Advanced Pharmaceutical Sciences. I hope we are all in health condition.

Ladies and gentlemen,

The conference is organized by the Faculty of Pharmacy UGM in collaboration with the Nara Institute of Science and Technology (NAIST) Japan and DAAD, Germany and held as part to celebrate the 65th anniversary of the Faculty of Pharmacy UGM and the 62th anniversary of Universitas Gadjah Mada. In the conference, I hope we can communicate our recently information concerning social / clinical pharmacy and pharmaceutical sciences. I hope the conference will be very fruitful, very useful for all of us.

I address special thanks to the plenary speakers both from domestic and abroad, the oral and poster presenters, as well as to those who come just to know the development of clinical or social pharmacy and pharmaceutical science. Your willingness to come, to communicate and to share your experiences is highly appreciated.

Therefore, during almost whole day discussing scientific matter related to human health and welfare, I hope we can make a wonderful opportunity to make a scientific closer relationship while we enjoy the cultural performances of Yogyakarta presented by our pharmacy student.

Finally, I hope that this meeting will give benefits to all of us, and we may see each other again in a similar event in the near future.

I look forward to thank you all for attending this event

Wassalamu'alaikum warahmatullahi wabarakatuh,

Marchaban

Dean of Faculty of Pharmacy UGM

Opening Remarks by Rector of Universitas Gadjah Mada

Prof. Ir. Sudjarwadi, M. Eng., Ph. D
Bismillahirrahmaanirraahim
Assalamu'alaikum wr wb
Chairman of Presidential Advisory Board, Prof. Dr. Emil Salim

Distinguished guests, ladies and gentlemen,
Good morning. It's trully a previlege for me to be able to welcome all of you to The Second International Conference on Pharmacy and Advance Pharmaceutical sciences in Yogyakarta with theme "Bridging Science to Pharmacy Practice" that is organized in cooperation with DAAD and the Nara institute of Science and Technology Japan to celebrate the 65th Anniversary of Faculty of Pharmacy UGM. This scientific gathering is aimed to update recent findings in pharmacy and advanced pharmaceutical sciences. It is expected that reearchers, academia, practitioners, policy makers as well as students and other participants can learn and share witch each other about the lastes developement in pharmacy and pharmaceutical science. This meeting is much required to develop the participant's knowledge in the science and address the pharmacological issues that arise. Moreover, in the fast developing condition of pharmaceuticals due to the increasing demands and mobility of people around the world and identifications of diseases that emerge, it is highly important for scientists to better contribute therir knowledge to the wider public.

Participants here all invited to seek for and introduce new ways on how to bring this knowledge to the pharmacy practices to be able to benefit the public. I hope that in these two days you will all be involved in insightful and inspiring discussions that can produce such new ways, new findings and alternatives as well as solutions to current problems in the are of pharmacy. It is my belief that all of us will bnenefit much from this special meeting. I wiss you have a good and enjoyable gathering while in Jogja. Lastly, my sincere thanks and deep appreciation go to everyone who have made this sminar a success.

Thank you very much.
Wassalamu'alaikum wr wb.

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STUDY OF DRUG-SELECTION PROBLEM IN HOSPITALIZED ASTHMA BRONCHIALE PATIENT IN ADI HUSADA UNDAAN WETAN HOSPITAL

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ABSTRACT

Asthma is one of the major health problems in the world. According to data from WHO, at 15 million people experience DALYs annually due to asthma, representing 1% of the total disease burden global. SKRT also states that asthma including 10 major causes of morbidity and mortality in Indonesia. The inappropriate use of prescription drugs in asthma may cause unnecessary adverse drug reactions that can lead to subtle deterioration of function or precipitate medical crises resulting in hospitalization or death. Pharmacists play a role in pharmaceutical care which can be an appropriate strategy to prevent and control morbidity and mortality caused DRPs (drug-related problems), functions to improve pharmacotherapy outcomes and quality of life of patients asthma. To know drug-selection problems of drug used in hospitalized asthma bronchiale patient. Samples were collected using retrospective methods. In this study, data were collected from medical record, and evaluated according to some literature. Patients involved in this study were 60 patients. The total number of the problems were 259 cases, with the largest number of contraindicated drugs with a total of 48,26%. Drug group causing most the problems was B2 agonist. The outcomes were resulting in no further morbidity 98,07%, and occurrence new medical problems 1,93%. This study demonstrates that the drug-selection problems common among asthma patients. In the role of pharmacists in pharmaceutical care in monitoring treatment of patients on a regular basis and analyze the occurrence of drug-selection problems to obtain optimal results.

Key words: asthma, drug-selection problems

INTRODUCTION

Asthma is still one of the major health problems in the world.¹ Although new drugs and evidence-based guidelines have been developed in recent years, but no major changes in morbidity and mortality asma.² Guidelines for the treatment of asthma recommend the involvement of patients greater role in their treatment.³ According to data from WHO (World Health Organization), at 15 million people experience disability-adjusted life years (DALYs) annually due to asthma, representing 1% of the total disease burden global.¹ SKRT (Survei Kesehatan Rumah Tangga) also states that asthma including 10 major causes of morbidity and mortality in Indonesia. In 1986, SKRT found that asthma and COPD (chronic obstructive pulmonary disease) ranked 5th out of 10 causes of morbidity. SKRT's data in 1992, asthma and COPD is the 4th leading cause of death (mortality). While in 1995, the prevalence of asthma of 13/1000, compared with chronic bronchitis and obstructive lung 11/1000 2/1000.⁴ The National Asthma Education and Prevention Program (NAEPP) defines asthma as a chronic