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PROCEEDING

Optimizing Public Health for Sustainable Global
Prosperity Through Innovative Collaboration

ISOPH 2019 | **OCTOBER 29TH-30TH, 2019**

4th International Symposium of Public Health



GRIFFITH UNIVERSITY, GOLD COAST CAMPUS,
QUEENSLAND, AUSTRALIA

PROCEEDING

The 4th International Symposium of Public Health (The 4th ISoPH)

*“Optimizing Public Health for Sustainable Global Prosperity Through Innovative
Collaboration”*

Griffith University, Queensland, Australia, October 29th – 31st, 2019



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The 4th International Symposium of Public Health (The 4th ISoPH)

“Optimizing Public Health for Sustainable Global Prosperity Through Innovative Collaboration”

Griffith University, Queensland, Australia, October 29th – 31st, 2019

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FOREWORD

The 4th International Symposium of Public Health will be held from the 29 October to 30 October at Griffith University, Gold Coast Campus, Queensland, Australia. This is the fourth time the symposium has been held and the first time it has been held outside of Indonesia. The symposium has been jointly organised by the Faculty of Public Health, Universitas Airlangga and the School of Medicine, Griffith University.

The conference serves as a valuable and important platform to facilitate the sharing of knowledge, skills and practices and build collaboration between public health academics, educators and professionals. The 2019 4th ISOPH conference theme is *Optimizing Public Health for Sustainable Global Prosperity Through Innovative Collaboration*. The papers contain in this Proceedings cover wide range of topics including : Contemporary public health challenges: Populations, issues, and settings, Innovative strategies to promote health, Sustainable and healthy urban living and Multi-stakeholders partnership to strengthen health system. Preparations of these proceedings would not be possible without the assistance of 4th ISoPH scientific committee. Thank you to Prof. Dr. Mohammad Nasih, SE., Mt., Ak., CMA (Rector of Universitas Airlangga), Prof. Dr. Tri Martiana, dr., M.S. (Dean Faculty of Public Health), Dr. Nyoman Anita Damayanti, drg., MS. (Coordinator of Doctoral Programme in Public Health) and Anas Tamsuri S.Kep,Ns, M.Kes (Chair of 4th ISoPH Organizing Committee) for their guidance and encouragement.

4th ISoPH Committee

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**WELCOME MESSAGE
THE CHAIR OF ORGANIZING COMMITTEE**

Dear ladies and gentlemen.
Assalamu'alaikum Warahmatullahi Wabarakatuh.

Welcome to the 4th International Symposium of Public Health (ISoPH) "Optimizing Public Health For Sustainable Global Prosperity Through Innovative Collaboration" in Griffith University, Gold Coast, Queensland, Australia on October, 29th-31st 2019.

This symposium is annually event that has been held by Doctoral Program of Public Health, Universitas Airlangga, Surabaya, Indonesia. This year, we are collaboration with Griffith University and it would be held in Queensland, Australia.

The theme of symposium is "Optimizing Public Health For Sustainable Global Prosperity Through Innovative Collaboration" that aims to improve the knowledge of the public health workers, lecturers, students, and practitioners towards the latest strategic issues. Besides that, it also aims to build a multisector and multilateral collaboration in order to optimize the research and innovative health service. This is conducted to improve the public health degree that is line in with the Sustainable Development Goals; especially in the Asia-Pacific Regional. This symposium would exchange the knowledge and experiences related to the optimization of public health based on the various issues.

The 4th ISoPH is expected to be able to provide high quality symposia with experts from various countries. It can be also as a strengthen media to understand the latest public health problems, as a media to build collaboration between the participations and host – co-host; include knowledge and experience sharing from the students, lecturers, practitioners, as well as public health observers. This event facilitates the result of participations to be reviewed by the experts; and selected article will be proposed to be published as Scopus indexed journal as well. We also open an opportunity for you to join us and get the new experience and enlighten for improving the personal and professional capacity in the field of public health.

Best Regards,
Anas Tamsuri, S.Kep., Ners., M.Kes
The Chair of Organizing Committee

WELCOME MESSAGE
THE COORDINATOR OF DOCTORAL PROGRAM IN PUBLIC HEALTH
FACULTY OF PUBLIC HEALTH
UNIVERSITAS AIRLANGGA

Assalamu'alaikum Warahmatullahi Wabarakatuh

Dear Colleagues,

I would like to thank all participants, conference committee, Co-Host, sponsors and all speakers who give their contributions in the 3rd ISoPH:

1. Prof. H. Mohamad Nasir, Ph.D, Ak, Ministry of Research, Technology and Higher Education of the Republic of Indonesia
2. Prof. Dr. dr. Nila Djuwita F. Moeloek, Sp.M (K), Health Ministry of the Republic of Indonesia
3. Prof. Dr. dr. Fachmi Idris, M.Kes, Social Security Administrator for Health, or BPJS Kesehatan
4. Prof. dr. Ali Ghufron Mukti, M.Sc., Ph.D., Directorate General of Resources for Science, Technology and Higher Education, Ministry of Research, Technology and Higher Education of the Republic of Indonesia
5. Prof. Dr. Nasronudin, Sp.PD., K-PTI, FINASIM, UNAIR Hospital
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8. Widodo J. Pudjirahardjo, dr., M.S., M.PH., Dr.PH, Universitas Airlangga
9. Dr. Salmiah binti Md. Said, MD., M.Comm.Med, Department of Community Health, Faculty of Medicine & Health Sciences, Universiti Putra Malaysia

We applaud your contributions to public health. Appropriately themed “Challenging Public Health Roles Towards Global Health Issues”, our conference will address some of global health most critical issues, including: nutrigenomics and public health: the paradigm shift to disease prevention, tobacco use and dependence, health financing and health insurance, the application of ICT in health care, emerging and re-emerging infectious diseases: threats to human health, maternal and child health, primary health care, mental health, nutrition-enhancing as strategic investment, occupational health, environment health, health politics and policy, non-communicable disease, communicable disease and tropical disease, emerging and re-emerging disease, health service management, community resilience and public health practice, disaster management.

Dr. Nyoman Anita Damayanti, drg., MS

Coordinator of Doctoral Program in Public Health Faculty of Public Health
Universitas Airlangga

**WELCOME MESSAGE
DEAN OF FACULTY OF PUBLIC HEALTH
UNIVERSITAS AIRLANGGA**

Honorable Guests, Ladies and Gentlemen, Ministers, Speakers, Coordinator of Doctoral Programme in Public Health, Rector of Universitas Airlangga, Rector of Griffith University

Assalamu'alaikum Warahmatullahi Wabarakatuh

It is my great pleasure to welcome you to The 4th International Symposium of Public Health (4th ISOPH), which take place 29th October-31st October 2018 at Griffith University, Gold Coast, Queensland, Australia.

The 4th ISOPH is the fourth international symposium which is held annually by the Faculty of Public Health, Universitas Airlangga, and this time we held at our university partner, Griffith University to improve knowledge and skills about public health issues, gain network with other health professionals as well as increase the number of scientific publications for students, lecturers and health professionals.

With the theme of the Conference is "*Optimizing Public Health for Sustainable Global Prosperity Through Innovative Collaboration*", we are hoping that the conference will gather the highest possible level of global health issues in Indonesia as well as International area with regards to health policies and laws, global health finance and a political commitment to make health a priority.

With our sincere gratitude to the all conferences committee as well as to Griffith University, the Co-Host and sponsors, we will do our best to make this conference a successful and fruitful one and lay the firm groundwork for future development of public health.

Regards,
Prof. Dr. Tri Martiana, dr., M.S.
Dean Faculty of Public Health, Universitas Airlangga.

KNOWLEDGE OF PREGNANT WOMEN ABOUT HEPATITIS B BY CARRYING OUT LABORATORY TESTS

Siti Maryam, SST., M. Kes.

Prodi D3 Kebidanan Universitas Tulungagung

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ABSTRACT

Introduction: Liver disease by the hepatitis B virus is a big problem in the world, an estimated 400 million people are carriers of this virus. attack all ages, genders, and races throughout the world. About 5% of the world's population has hepatitis B without symptoms. The prevalence in Indonesia is around 5-17%. Pregnant women positively infected with hepatitis B have a greater risk of giving birth prematurely, low birth weight (LBW), to experience disability. Women who are detected to have hepatitis B e-antigen (HBeG) are the most infectious. In fact, pregnant women do not all know the importance of hepatitis B screening. Pregnant women are not all routinely screened for hepatitis B, so it has been discovered that pregnant women suffer from hepatitis B at 28 to 37 weeks' gestation. **Method:** This type of analytic research is observational approach, cross sectional time approach, sampling technique using purposive sampling, the number of samples is 94 respondents. The study was conducted from 4 to 17 February 2019 at the D3 Midwifery Study Program at the University of Tulungagung, Analysis using Chi Square. **Results and Discussions:** The results, from 94 respondents who had good knowledge and conducted 8 laboratory examinations (19%), enough knowledge then conducted laboratory examinations of 50 respondents, while knowledge was lacking and did not conduct laboratory examinations of 16 respondents. Chi Square calculation p-value of $0.026 < 0.05$, meaning that there is a relationship between the knowledge of pregnant women about hepatitis B with laboratory tests. **Conclusions:** Facts and theories are in line with the majority of respondents aged 17-25 years so that the process of thinking or Intellegentia Quetient (IQ) is good and willing to do a laboratory examination of hepatitis B because it knows its benefits for pregnancy and also the health of the mother and fetus to be born.

Keywords: *knowledge, hepatitis B, Laboratory Examination*

Introduction

Hepatitis B virus is a big problem in the World, it is calculated that the hepatitis B virus will infect more than 2 billion population today. Hepatitis B attacks all ages, genders, and races throughout the world. About 5% of the world's population has hepatitis B without symptoms. Prevalence rates vary according to the state of the country concerned in dealing with this disease. In developed countries, such as the United States and Europe, the prevalence is 0.1% while in Asia and Africa it can reach 15%. Prevalence in Indonesia around 5-17% (moderate endemicity). Based on the results of the RISKESDAS analysis, 2018 shows the proportion of antenatal care for women aged 10-54 years according to the components of the examination received, which were 11 tests carried out, namely: measuring height, TT injection, upper arm circumference, Uterus Height, Tablet added blood, colloquium, fetal location, fetal heart rate, case management, measuring body weight, and measuring blood pressure, and the lowest proportion is measuring body weight, namely 68.1% from 34

provinces, whereas laboratory examinations were not conducted. Encourage mothers to conduct laboratory tests to detect early risks of STI transmission including Hepatitis B. In Tulungagung, as of December 2018 data, there were 28 pregnant women who were positive for hepatitis B, 9 of whom gave birth and received the vaccine. Some risks that can occur during childbirth include babies born prematurely, born with a low body weight, even there are abnormalities in the functioning of the baby's body, of course this is dangerous, both for the baby and for the mother. The average pregnant woman does not realize if she has hepatitis. Because, not all people infected with hepatitis experience symptoms of hepatitis. For this reason, urge pregnant women to take preventative measures by routinely carrying out pregnancy checks and blood tests. The test can help determine what is the right effort to slow down the progress of the virus. In addition, HBIG immunology during the first 12 hours of birth is also mandatory, because it prevents transmission.

Methods:

The model used is the analytical survey method. The type is analytic with observational approach. The time approach used in this study is cross sectional. The population in this study were all pregnant women who came in the examination held by the D3 Midwifery Study Program at Tulungagung University. The sampling technique used was purposive sampling. The number of samples in this study were 94 respondents. Held on 4 to 17 February 2019 at the D3 Midwifery Study Program at Tulungagung University. The variables are: independent variable (X) Knowledge of pregnant women about Hepatitis B and the dependent variable (Y) Implementation of laboratory examinations. Data analysis through univariate and bivariate stages (Chi-Square test).

Results:

Table 1. Disribution of Frequency of Knowledge

No	Knowledge Criteria	frequency	percentage
1	good	18	19%
2	enough	55	59%
3	less	21	22%
	total	94	100%

Table 2. Laboratory tests

No	Laboratory tests	frequency	percentage
1	conducting	68	72 %
2	Do Not Do	26	28 %
	Total	94	100 %

Table 3. Cross tabulation between Knowledge of pregnant women about hepatitis B with laboratory tests

Knowledge	Laboratory tests Hepatitis B		Total	
	conducting	Do Not Do	n	%
good	18	0	18	19
enough	50	10	55	59
less	5	16	21	22
Total	68	26	94	100

Based on the Chi Square calculation, the p-value of 0.026 < 0.05: Ho is rejected, meaning that there is a relationship between the knowledge of pregnant women about hepatitis B and laboratory tests at the D3 Midwifery Study Program in Tulungagung University in 2019.

Discussion

The results of the study of 94 respondents almost half of the respondents (36%) had a high school education of 34 respondents and a small portion of respondents (14%) had no school / elementary education of 13 respondents. This is in line with the fact that respondents' knowledge about hepatitis B is one of the things that is crucial in the health and smoothness of a pregnancy, if most pregnant women have sufficient knowledge because in the background of the data that almost half of the respondents have a high school education. so that it will affect the prevention and prevention of the dangers of third trimester pregnancy. thus the higher the education level of the respondent the better his knowledge of hepatitis B and of course will carry out laboratory examinations related to hepatitis B. Theories and facts are clear that the respondents or pregnant women are mostly knowledgeable about hepatitis B, so that respondents have a response to willing to behave to carry out hepatitis B tests both hospitals and health centers.

Based on the facts, it is explained that pregnant women who have good knowledge and conduct laboratory examinations of 8 respondents (19%), have sufficient knowledge and conduct laboratory examinations of 50 respondents and do not conduct laboratory examinations of 10 respondents, while lacking knowledge of mothers then examine 5 respondents and do not conducted a laboratory examination of 16 respondents. Based on the Chi Square calculation, the p-value of 0.026 < 0.05: Ho is rejected, meaning that there is a relationship between the knowledge of pregnant women about hepatitis B and laboratory tests at the D3 Midwifery Study Program in Tulungagung University in 2019

Most respondents aged 17-25 years so that the process of thinking or Intellegentia Quetient (IQ) is good and want to do a hepatitis B laboratory examination because they know the benefits for pregnancy and also the health of the mother and fetus to be born. Also supported by respondents who

are mostly housewives have a loose time to get information about hepatitis B. Hepatitis B information obtained based on the fact that almost half was obtained from health workers so it is appropriate. A small portion gets the information from electronic media, this is because it is easier and easier to access any information, for example from henphon or from television, but the information taken is true information that can be accounted for example by directly being clarified to health workers related to hepatitis B in pregnancy starting from the definition, symptoms, transmission and treatment, so that the information obtained is clear.

Conclusions

1. Most of the respondents (59%) or 55 respondents have enough knowledge and a small portion of respondents (19%) or 18 respondents have less knowledge
2. Most of the respondents (72%) or as many respondents had carried out hepatitis B laboratory pregnancy examination and a small portion of respondents (28%) or 26 respondents did not conduct hepatitis B laboratory pregnancy peer check
3. Based on the Chi Square calculation, the p-value of $0.026 < 0.05$: H_0 is rejected, meaning that there is a relationship between the knowledge of pregnant women about hepatitis B with laboratory tests at the D3 Midwifery Study Program at Tulungagung University in 2019