

ABSTRACT BOOK

the 3rd

ICOPH-TCD

2020

**The 3rd International Conference on Public Health
for Tropical and Coastal Development (ICOPH-TCD 2020)**

**“Lifestyle and Environmental Changes:
Challenges on Public Health in Tropical and Coastal Areas
to Support SDG’s Achievements”**

**September, 29 - 30th, 2020
Semarang, Indonesia**

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ABSTRACT BOOK

The 3rd International Conference on Public Health for Tropical and Coastal Development (ICOPH-TCD) 2020

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WELCOMING SPEECH AND OPENING RECTOR OF UNIVERSITAS DIPONEGORO



Honorable Keynote Speakers, Letnan Jenderal TNI (Purn.) Dr. dr. Terawan Agus Putranto, Sp.Rad.(K), Minister of Health Republic of Indonesia; Assoc. Prof. Yothin Sawangdee, Ph.D. from Mahidol University, Thailand; Assoc. Prof. Reece Hinchcliff from Queensland University of Technology, Australia; Assoc. Prof. Kun Hsien Tsai from National Taiwan University, Taiwan; Prof. Amanda Lee from University of Queensland, Australia; Prof. Elena Naumova, Ph. D. from Tufts University, USA; Dr. Armunanto, M. Ph from UNICEF (Representative for Java and Bali); Dr. Shalala Rafayil Ahmadova from WHO (Representative for Indonesia); Assoc. Prof. Hanifa Maher Denny from Faculty of Public Health, Universitas Diponegoro; Vice Rectors, Deans, Dean of Faculty of Public Health; All conference guests and participants.

Assalamu'alaikum Warahmatullahi Wabarakaatuh.

On behalf of Universitas Diponegoro, it is my honor to welcome you to the 3rd International Conference on Public Health for Tropical and Coastal Development (ICOPH-TCD 2020).

This conference is a routine activity of the Faculty of Public Health which is held every 2 years. It is also a celebration of the 63rd Anniversary of Universitas Diponegoro. We are proud to present this event to become a forum for the dissemination of policies from the government, experiences from international institutions and stakeholders in health sector and also research results from researchers as think tanks for the advancement of science in the health sector. All contribute together to create a healthy society. This is also inline with the theme of University Anniversary: *"Diversity synergy to strengthen Research University in a new normal"*.

Universitas Diponegoro as a leading university in the Central Java Province, Indonesia, has 11 faculties and 2 schools of which the Faculty of Public Health is one of them. Consistently we are obliged to carry out education, research and in balance with community services. Therefore, Universitas Diponegoro is always in the ranks of the leading universities in Indonesia and also performs at the international level.

Numerous international rankings place the University in a proud position. Year of 2020, Universitas Diponegoro ranked 8th Best University in Indonesia for Sustainable Development Goals program based on THEs WUR; 8th Best University in Indonesia based on QS WUR and 9th Best University in Indonesia based on QS Asia University Ranking. Lecturers' publications in Scopus indexed journals are in the 8th position nationally. Last year, our student achieved 3rd rank in student creativity (PIMNAS) nationally. Based on the QS World Graduate Employment Rankings 2020, our graduates are ranked third nationally for employability.





Ladies and gentleman,

This year, this conference raised the topic of Lifestyle and environmental changes: Challenges on public health in tropical and coastal areas to support SDGs achievements. Health problems such as the Covid-19 pandemic that we are currently experiencing are the impact of changes in lifestyle and the environment. I sincerely hope that through this conference we can act quickly together and appropriately to help community from the threat of communicable and non-communicable diseases.

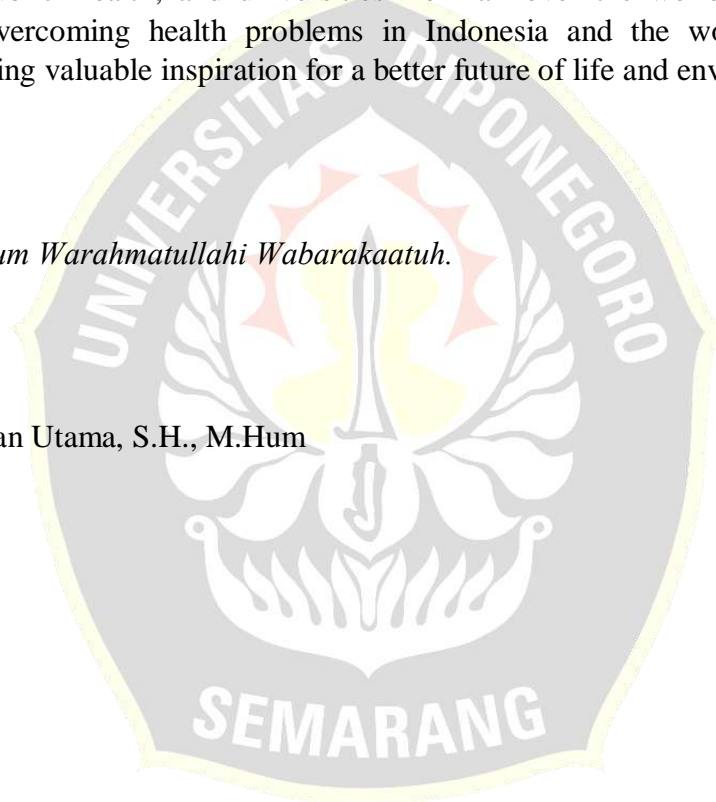
Universitas Diponegoro as a university that has the resources of public health experts with good laboratory support always move forward to become an excellent research university and ready to support community health. On this great event, speakers from 5 countries will certainly share important experiences and knowledge for all of us to face environmental change. Hopefully it can form a strong network between Universitas Diponegoro, especially the Faculty of Public Health, and universities from all over the world to make excellent innovations in overcoming health problems in Indonesia and the world. We hope this conference can bring valuable inspiration for a better future of life and environment.

Thank you.

Wassalamu 'alaikum Warahmatullahi Wabarakaatuh.

Prof. Dr. Yos Johan Utama, S.H., M.Hum

Rector





WELCOMING SPEECH DEAN OF FACULTY OF PUBLIC HEALTH UNIVERSITAS DIPONEGORO



Guest of Honor, Minister of Health Republic of Indonesia Letnan Jenderal TNI (Purn.) Dr. dr. Terawan Agus Putranto, Sp.Rad.(K); Rector of Universitas Diponegoro Prof. Dr. Yos Johan Utama, SH, M.Hum.; Vice Rectors, Deans, Vice Deans, distinguished speakers, our national and international colleagues, Chair of the organizing committee Assoc. Prof. dr. Martha Irene Kartasurya, M.Sc., PhD, sponsors, all conference guests and participants.

Assalamu'alaikum Warahmatullahi Wabarakaatuh

It is my great pleasure to welcome you to the 3rd International Conference on Public Health for Tropical and Coastal Development (ICOPH-TCD 2020), which organized by the Faculty of Public Health Universitas Diponegoro (FPH UNDIP).

The success of the first ICOPH TCD in 2016 and the second in 2018 encourage us to continue this conference to the third one. We designed this event as a discussion platform for experts, researchers and practitioners from Indonesia and abroad, as well as policy makers at regional, national and global levels. We are pleased because this year's participants also come from 5 foreign countries such as Rwanda, Thailand, Taiwan, Australia and the United States.

Ladies and gentleman,

Faculty of Public Health Universitas Diponegoro as one of the Faculty of Public Health founding fathers in Indonesia has been involved in solving public health problems at regional and national levels, including CoVID-19 control programs. Since the pandemic hit our country, Faculty of Public Health Universitas Diponegoro has been involved in various task forces, in collaboration with the Central Java Provincial Government, the Central Java Provincial Health Office and also the Regional Research Council of Central Java to create strategies and policies to control the spread of CoVID-19 in Central Java. At the national level, we are also participated in formulating a strategy to deal with COVID-19, in collaboration with Indonesian Board for National Development Planning. A series of webinars for promotion and education on prevention and control of COVID-19 have also been held.

We are also grateful to be able to work together with UNICEF in giving assistance for the implementation of health program (Immunization, Achieving Minimal Health Service Standards, Child Development) during this Covid 19 pandemic. As faculty of public health members, beside of education, conducting research, serving the community for maintaining public health are our obligation. The experience in working together with ministry of health, health district office as well as international agency is a valuable lesson for us and for our students.





Ladies and Gentlemen,

We are pleased to note that this conference covers various areas in public health i.e. administration and health policy, biostatistics and demography, environmental health, health promotion, occupational health and safety, epidemiology and tropical disease, public health nutrition, maternal and child health and health entomology. Those fields contribute to the general topic of our conference which is “*Lifestyle and environmental changes: Challenges on public health in tropical and coastal areas to support SDG’s achievements*”.

We realize that our current health condition is influenced by the environment that is changing. The change in environment and environmental damage are affected by human behaviors. The role of public health includes five levels of prevention as well as health promotion. Communicable and non-communicable disease prevention as well as environmental and occupational impact on public health are very important for maintaining human health. Raising the awareness that *health prevention and promotion is much better than treatment* has to be endorsed all the time in all opportunities especially at this time of Covid 19 pandemic. We wish that this conference will also have a significant contribution in achieving mainly the third goal of SDGs, which is good health and wellbeing and some other goals that are related to public health.

In responding to these conditions, alternative recommendations and innovations based on national or international research evidence are needed. It is important to keep pace with the current global change acceleration. This conference is a great opportunity for collaboration between institutions in education, research and innovation. I would like to acknowledge our great appreciation to the Keynote Speaker of this conference, our Minister of Health Republic of Indonesia, and also my gratitude to all distinguished speakers in these 2 days ahead who will also share their valuable experiences in research and policy in regional and global arena. This gathering of experts in the field of science and technology to improve the quality of public health education is a very important chance.

Even though we are currently in a pandemic condition that does not allow all of us to meet face to face in Universitas Diponegoro, Semarang, Indonesia, we hope that all of you can receive our warm hospitality and have a great experience in this conference.

Wassalamu’alaikum Warahmatullahi Wabarakaatuh

Dr. Budiyo, S.K.M., M.Kes.
Dean of Faculty of Public Health
Universitas Diponegoro



PREFACE

Dear Colleagues,

International Conference on Public Health for Tropical and Coastal Development (ICOPH-TCD) is a biannual conference, held by Faculty of Public Health Universitas Diponegoro (FPH UNDIP), Semarang, Indonesia. After the first two successful events in 2016 and 2018, this year, we proudly present the 3rd ICOPH-TCD on the 29- 30th of September 2020. Due to the pandemic condition, we hold this conference virtually. As one of the leading providers of public health education in Indonesia, FPH UNDIP is dedicated to improve the health of Indonesian population as well as the global community. Therefore, this conference aims to build networking, mutual collaboration, and share experiences regarding public health research among the faculty members, researchers, students, stakeholders, and policy makers.

This abstract book hold all of the abstracts which are presented at the 3rd ICOPH-TCD. The general topic for this third ICOPH TCD is: **Lifestyle and environmental changes: Challenge in Public Health in Tropical and Coastal areas to support SDG's achievement.** The area of public health covered in this conference includes health management, health policy, biostatistics and population study, maternal and child health, epidemiology, entomology on public health, health promotion, public health nutrition, environmental health, occupational health and safety, the effect of Covid-19 pandemic on lifestyle changes, new normal lifestyle in Covid-19 pandemic and other topics related to tropical and coastal development. The total of abstracts presented in this conference was about 138 abstracts, with a more than 200 participants from Indonesia, Taiwan, United States of America, Australia and Rwanda. Selected full papers at this conference will be published in some peer-reviewed journals based on the presenter's choice, mostly in Annals of Tropical Medicine and Public Health. Some other papers will be published in national journals: Jurnal Kesehatan Lingkungan Indonesia, Jurnal Promosi Kesehatan Indonesia, Journal of Public Health for Tropical and Coastal Region, and Conference Proceeding with ISBN.

Finally, on behalf of the third ICOPH-TCD committee, I would like to say a sincere thank you for your kind attention and participation in this conference. I really appreciate all of your work and waiting for the next fruitful networking and collaboration in research, education and innovation in public health.

Martha Irene Kartasurya, PhD
The 3rd ICOPH-TCD
Chair of the Committee



ORGANIZING COMMITTEE

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KEYNOTE SPEAKER :

- Letjen. TNI (Purn.) Dr. dr. Terawan Agus Putranto, Sp. Rad (K)
The Minister of Health Republic of Indonesia

MAIN SPEAKER :

- Assoc. Prof. Yothin Sawangdee, PhD
Institute for Population and Social Research, Mahidol University, Thailand
- Prof. Amanda Lee
School of Public Health, The University of Queensland, Brisbane, Australia
- Dr. Shalala Rafayil Ahmadova
WHO Representative for Indonesia
- Assoc. Prof. Hanifa Maher Denny SKM, MPH, PhD
Faculty of Public Health, Universitas Diponegoro, Indonesia
- Prof. Elena Naumova
Friedman School of Nutrition Science and Policy, Tufts University, Boston, USA
- Assoc. Prof. Reece Hinchcliff, PhD
School of Public Health and Social Work, Faculty of Health, Queensland University
of Technology, Brisbane, Australia
- Dr. Armunanto, MPH
UNICEF-Indonesia
- Assoc. Prof. Kun Hsien Tsai, PhD
Institute of Environmental and Occupational Health Sciences National Taiwan
University, Taiwan
- Assoc. Prof. Dr. Budiyo, S.KM, M.Kes
Faculty of Public Health, Universitas Diponegoro, Indonesia



TIME SCHEDULE

Day 1: 29th September, 2020

NO	TIME	AGENDA	PIC
I	07.30 – 08.30	Participants and speakers was admitted to the conference room (zoom) and entertained by: - Profile of Central Java Province, Indonesia and Semarang city - Profile of Universitas Diponegoro and Faculty of Public Health	Operator
II	08.30 – 08.40	Opening Ceremony & Plenary Session	MC
	08.40 – 08.50	Indonesian National Anthem & opening prayer	MC
	08.50 – 09.00	Opening remarks by Dean of Faculty of Public Health	Assoc. Prof. Dr. Budiyono, SKM, M.Kes
	09.00 – 09.13	Opening ceremony by Rector of Universitas Diponegoro	Prof. DR. Yos Johan Utama, SH, M.Hum
	09.13 – 09.15	Photo sessions	MC
	09.15 – 09.20	Keynote speech by The Minister of Health Republic of Indonesia – “Challenge and Indonesian Policies to Encounter Lifestyle and Environmental Changes”	Letjen. TNI (Purn.) Dr. dr. Terawan Agus Putranto, Sp.Rad(K)
	09.20 – 09.26	Traditional dance performance	MC
	09.26 – 09.36	Plenary Session	Moderator:
	09.36 – 09.58	Assoc. Prof. Yothin Sawangdee, PhD (Institute for Population and Social Research, Mahidol University, Thailand) – “Applying Mixed Methodology to Study Maternal and Child Health in Coastal Area.”	Drg. Zahroh Shaluhiyah, MPH, PhD
	09.58 – 10.20	Prof. Amanda Lee (School of Public Health, The University of Queensland, Brisbane, Australia) – “A Fork in the Road-Steps to Healthy, Equitable and Sustainable Nutrition Policy”	
	10.20 – 10.28	Art performance by students choir of Public Health Faculty (Sanita Melodia Choir)	
	10.28 – 10.50	Dr. Shalala Rafayil Ahmadova (WHO Representative for Indonesia) – “The Implementation of WHO New Normal Criteria in Tropical Countries”	
	10.50 – 11.12	Assoc. Prof. Hanifa Maher Denny SKM, MPH, PhD (Faculty of Public Health, Universitas Diponegoro, Indonesia) - “New Normal in the Context of Occupational Safety and Health: Issues on the New Adaptation of Working Life in Indonesia”	
	11.12 – 11.52	Discussions	
	11.52 – 12.02	Closing of Plenary Session	Moderator
	12.02 – 12.15	Closing by Master of Ceremony	MC
	12.15 – 13.00	Lunch and prayer break	MC

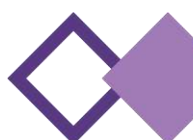




NO	TIME	AGENDA	PIC
	13.00 – 16.30	Oral presentation in six separate rooms based on topics	Room Moderators

Day 2: 30th September, 2020

NO	TIME	AGENDA	PIC
I	08.00 – 08.30	Participants and speakers are invited to the conference room and entertained by online trips to tourism destinations in the city of Semarang and the island of Karimunjawa	
II	08.30 – 08.40	2nd day Conference Opening	MC
	08.40 – 08.50	Plenary session opening	Moderator:
	08.50 – 09.12	Prof. Elena Naumova (Friedman School of Nutrition Science and Policy, Tufts University, Boston, USA)	Assoc. Prof. Hanifa Maher Denny SKM, MPH, PhD
	09.12 – 09.22	Discussions	
	09.22 – 09.44	Assoc. Prof. Reece Hinchcliff, PhD (School of Public Health and Social Work, Faculty of Health, Queensland University of Technology, Brisbane, Australia) – “Universal Health Coverage Programs in Middle Income Countries: Evidence of Impacts on Rural Populations”	
	09.44 – 10.04	Art performance by students choir of Public Health Faculty (Sanita Melodia Choir) and profile of Central Java Culture	
	10.04 – 10.26	Dr. Armunanto, MPH (UNICEF-Indonesia) - “Lesson learned from interventions to increase child welfare in tropical and coastal areas in relation to lifestyle and environmental changes.”	
	10.26 – 10.48	Assoc. Prof. Kun Hsien Tsai, PhD (Institute of Environmental and Occupational Health Sciences National Taiwan University, Taiwan) – “Vector Borne Disease Control, A Success Story from Taiwan”	
	10.48 – 11.10	Assoc. Prof. Dr. Budiyo, S.KM, M.Kes (Dean of Public Health Faculty, Universitas Diponegoro, Indonesia) – “The Perspective of Environmental Change by the Local Community (Study in The Coastal of Semarang)”	
	11.10 – 11.13	Exercise	
	11.13 – 11.43	Discussions	
	11.43 – 11.53	Plenary Session closing	Moderator
	11.53 – 12.00	Announcement	MC
	12.00 – 13.00	Lunch and prayer break	MC
	13.00 – 16.30	Oral presentation in six separate rooms based on topics	Room Moderators
	16.30 – 16.45	Preparation of Conference Closing	MC





NO	TIME	AGENDA	PIC
		Ceremony (Participants and speakers are invited to the conference room)	
	16.45 – 17.10	Announcement for the best presenters	MC
	17.10 – 17.20	Closing remarks by Chair of the committee	Assoc. Prof. dr. Martha Irene Kartasurya, MSc., PhD
	17.20 – 17.25	Photo sessions	MC
	17.25 – 17.30	End of closing ceremony	MC





ORAL PRESENTATION

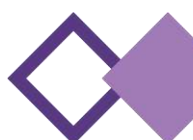
Tuesday, 29th September 2020

Room 1

Code	Authors	Title
AAP.01-001	Diyana Ermawan Effendi, Irfan Ardani, Arief Priyo Nugroho, Jenny Veronica Samosir	Enabling Factors of Primary Health Center Accreditation in Eastern Indonesia From the Stakeholders' Perspectives
AAP.01-002	Titis Elvira Nizar, Atik Nurwahyuni	Systematic Review The Influence of Clinical Pathway Implementation on Length of Stay and Patient Outcomes in Stroke Infarction Patients
AAP.01-003	Uli Dumai, Rokiah Kusumapradja, M Reza Hilmy	Affect Analysis of Workload, Competence Nurse To Work Motivation Through Compensation
AAP.01-004	Arih Diyaning Intiasari, Agung Dwi Laksono	Health Service financing accessibility challenges in the central mountainous region of Papua
AAP.01-005	Hendrik DJ Borolla, Indar, Amran Razak, Anwar Mallongi	The Relationship Between Type of Health Insurance And Patient Satisfaction On Out-Patient Health Services At Hospital
AAP.01-006	Budi Aji, Siti Masfiah, Siti Harwanti, Nur Ulfah	Factor affecting willingness to pay for national health insurance program among informal workers in Indonesia
AAP.01-007	Chriswardani Suryawati, Dwi Linna Suswardany, Farid Agusybana	Five Years Indonesia National Health Insurance: How The Future Expectation of Independent Participants
AAP.01-008	Septo P Arso, Wulan Kusumastuti	Mapping Undergraduate Thesis Research on Health Administration And Policy Study In Faculty of Public Health Diponegoro University
AAP.01-009	Prahita Indriana Raniamsi, SKM, M.Kes, Reni Murnita, Skm, M.Kes, Hanif Pandu Suhito, SKM, M.Kom, M.Si	A Study About User Service Satisfaction Through PUSTAKA (Community Health Center Without Queue In Semarang City) With Importance-Performance Analysis Approach
AAP.01-010	Daru Lestantyo, Yasmita Anis Astari, Ekawati	Hospital Emergency Preparedness During Covid 19 Pandemic Situation (Case Study In Central Java Regional Hospital)

Room 2

Code	Authors	Title
BMC.02-001	Sulistyaningsih, Y. Warella, Sutopo Patria	Interprofessional collaboration practices enhance the achievement of comprehensive





	Jati, Meidiana Dwidiyanti	obstetric and neonatal emergency care program indicators in hospitals
BMC.02-002	Soenarnatalina Melaniani, Yuly Sulistyorini, Mahmudah, Diah Indriani, Rizqy Rahmatyah	Success Rate of My Health Report Books Filling Training in Elementary School of Surabaya and Gresik
BMC.02-003	Rano Indradi Sudra	Patient Access Rights in the Electronic Medical Record System (Case Study on Electronic Medical Record Trainee Hospital)
BMC.02-004	Maria Gayatri	Socioeconomic Determinants of Adolescent Pregnancy In Indonesia: A Population-Based Survey
BMC.02-005	Izzatul Arifah, Anik Wulandari	Impact of Adolescent Friendly Health Service program on adolescent's reproductive health knowledge: A Comparative study in Surakarta Regency, Indonesia
BMC.02-006	Runjati, Ngadiyono, Suparmi, Maya Erisna, Annisa Septy Nurcahyani	The Effect of Maryam Exercise, Abdominal Breathing And Self Affirmation Toward Coping Ability, And The Confidence of Labor In Pregnant Women
BMC.02-008	Riyanti, Legawati, Nang Randu Utama	Husband Assistance on Outcome Perinatal Adolescent Pregnancy in Gunung Mas District, Indonesia
BMC.02-010	Zulfahera,SKM, DR. Heryudarini Harahap,M.Kes, Nurlisis,SKM,M.Kes	Implementation of Reproductive Health Service Program for Bride in Pekanbaru City
BMC.02-011	Oktavia Beni Kujariningrum, Sri Winarni, Najib	Multiple Pregnancy: The Biggest Risk Factor of Low Birth Weight In Central Java, Indonesia (2017 Idhs Secondary Data Study)
BMC.02-012	Dina Rahayuning Pangestuti, Naintina Lisnawati, Wardatus Zahroh	The Duration of Exclusive Breastfeeding Up To 6 Months Was Associated With Multipara Mother in Semarang, Central Java, Indonesia
BMC.02-013	Legawati, Y. Warella, Zahroh Shaluhiyah, Sri Achadi Nugraheni	Status of Marriage and Outcome Perinatal on Adolescent Pregnancy in Dr. Doris Sylvanus Palangka Raya Hospital, Indonesia

Room 3

Code	Authors	Title
EPI.03-002	Ika Puspita Asturingtyas, Donny Kristanto Mulyantoro, Ina Kusriani, Hadi Ashar	Non-communicable Diseases Comorbidity and Multimorbidity among People with Tuberculosis Infection in Indonesia
EPI.03-004	Wigati, R.A, Mujiyono, Nurhidayati, Siti Diniarsih, Hening Triandika, Setyo Sulistyono	Potential Breeding Places and Abundance of Filariasis Vector Mosquitoes In Buton District, Southeast Sulawesi Province





EPI.03-005	Muhammad Choirul Hidajat, Eddi Dharmana, Martini Martini, Widiarti Widiarti, Triwibowo Ambar Garjito	Entomological investigation during the Dengue outbreak in Kudus and Jepara Districts, Central Java province, Indonesia in 2014
EPI.03-008	Mitoriana Porusia, Annisa Lutfiana Dewi Lidia Wati	Evaluation of Rat Control Treatment in Traditional Market, Indonesia
EPI.03-009	M. Yusran, Raisah Almira	Clinical Outcomes of Globe Injury in Dr. H. Abdul Moeloek Hospital Lampung
EPI.03-010	Dina Lusiana Setyowati, MK Nuryanto, M Sultan, Lisda Sofia, Suwardi Gunawan, Agus Wiranto	Computer Vision Syndrome Among Academic Community in Mulawarman University, Indonesia During Work From Home in Pandemi Covid-19
EPI.03-013	Mochamad Hadi, Atik Marwani, Dwi Sutiningsih, Ari Suwondo	Potential of Zodia Leaf Extracts of Hexane Solvent in Reducing Aedes aegypti Density: Semi Field Trial Application in Endemic Areas of Dengue Hemorrhagic Fever (DHF)
EPI.03-014	Dinta Ayuda Farras, Lintang Dian Saraswati, M Arie Wuryanto	Risk Factor of Cervical Precancerous Lesion in Sapuran Health Center, Wonosobo City
EPI.03-015	Yeni Farida, Hesti Diah Prahastiwi, Muchtar Hanafi	Risk Factor of Hospitalization with Community Acquired Pneumonia in Type 2 Diabetic Patient

Room 4

Code	Authors	Title
HPR.04-001	Thinni Nurul Rochmah, Aprilia Durotun Nasikhah, Susi Hidayah, Stefania Widya Setyaningtias, Trias Mahmudiono	Empowerment of the Youth Red Cross as Peer Educators to Increase Knowledge and Attitudes towards Adherence to Consume Iron-Folic Acid Supplement in Lamongan
HPR.04-002	Aditya Kusumawati, Kusyogo Cahyo, Ratih Indraswari, Novia Handayani	Factors Related to Practice on Mosquito Breeding Eradication
HPR.04-003	Destania Kinthan Larasati, Dominikus Raditya Atmaka, Trias Mahmudiono	The Effectiveness of Whatsaap-based Nutrition Education Towards Compliance of Iron Folic Acid Supplement Intake Among Adolescent Girls in Indonesia
HPR.04-004	Kismi Mubarokah, Enny Rachmani, Nurjanah, Sri Handayani	Tuberculosis Literacy Supports Preventive Behaviour among Workers in Semarang, Indonesia
HPR.04-005	Novia Handayani, Aditya Kusumawati, Ratih Indraswari	COVID-19 Prevention Practice among Indonesian Moslem Toward Eid Al-Fitr
HPR.04-006	Natalia Lisma Br Sembiring, Rosmin Tingginehe, Sarce Makaba, Adriana Sainafat	The Meaning of Life For Soldiers With HIV/Aids (Phenomenology Study) Theory of Maslow In Papua

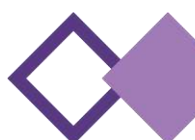




HPR.04-009	Dina Lusiana Setyowati, Swandari Paramita, Wahnadita Rahman	Health Education Intervention about Adaptasi Kebiasaan Baru in School for Elementary School Teachers Prevent COVID-19 in Sanga-Sanga, East Kalimantan, Indonesia
HPR.04-010	Eti Rimawati, Sri Handayani	The Difference of Social Stigma at the beginning of the Covid-19 Pandemic based on Demographic Characteristics in Indonesia
HPR.04-011	Ratih Indraswari, Evicenna Naftuchah Riani, Dewi Ambarwati	The emergence of office cluster: employee Health Belief Model toward Pandemic COVID-19
HPR.04-012	Ratna Indriawati, Tunjung Wibowo	The Pattern of Internet Use during the COVID-19 Pandemic in the 18-24 Years Age
HPR.04-013	Yuniarti, Ristiawati, Nur Susanti	Disaster Communication as Mitigation of Covid-19 in Higher Education (Study in Pekalongan University)

Room 5

Code	Authors	Title
PHN.05-001	Hermien Nugraheni, Retno Murwani, Zahroh Shaluhiah, Bagoes Widjanarko	Physical activity and sedentary lifestyle elementary school student
PHN.05-002	Trianasari Alviani Putri, Anugrah Novianti, Laras Sitoayu	Relations Between Protein Energy Intake, Micronutrient Intake and the Grip Strength of Elderly Women
PHN.05-003	Tuti Surtimanah, Irfan Nafis Sjamsuddin	Risk Factors and Interventions For Anemia Among Adolescent Girl
PHN.05-004	Yehezkiel Dwi Putra, Fillah Fithra Dieny, Dewi Marfu'ah Kurniawati, Hartanti Sandi Wijayanti	Abdominal Diameter Profiles is Related With Visceral Obesity Based On Lipid Accumulation Product In Obese Adolescent Females
PHN.05-005	Rosiana Eva Rayanti, Renghart Feninlambir, Priskila Sindi Arindita	Nutritional Status and Physical Activity in Sulawesi and Nusa Tenggara Timur Students
PHN.05-006	Mardiana Dwi Puspitasari, Maria Gayatri	Parental-Investment Framework to Understand Infant and Young Child Feeding Practice: Evidence from North Sumatera and West Sumatera Provinces
PHN.05-024	Apoina Kartini , Suhartono, Budiyo, Dina R. Pangestuti, Sulistyawati	Relationship of Breastfeeding Mothers' Lead Levels And Nutritional Status of Infants Aged 0-6 Months In Agricultural Areas
PHN.05-009	Vilda Ana Veria Setyawati, Salma Ainun Izzah, Guruh Fajar Shidik	Impact of supplementary feeding program (PMT) on chronic energy deficiency (CED) pregnant women
PHN.05-010	Siti Fatimah, Hussein Gasem, Sri Achadi Nugraheni, Mexitalia	Zn, Folic Acid, calcium as a determining factor for growth failure in the first 1000 days of life in the coastal region

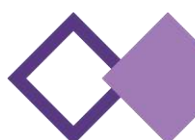




	Setiawati EM, Martha Irene Kartasurya	
PHN.05-011	Annisa Alifia Yahya, Qonita Rachmah, Trias Mahmudiono	Correlation Between Online Order of Sugary Drink and Risk of Obesity Among Adolescents During Pandemic Covid-19 in Surabaya
PHN.05-012	Naintina Lisnawati, Restu Amalia Hermanto, Ineke Widyastuti Anwar, Dewi Tri Setyorini	Hemoglobin Level Related To Physical Fitness Among Female Adolescents In Rural Area
PHN.05-013	Chatarina Anugrah Ambar Purwandari, Clara Cahyaning Wishesa, Bambang Wirjadmadi, Trias Mahmudiono	Higher BMI Increased the Risk of Complications among Pre-Elderly with Type 2 Diabetes Mellitus

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ENV.06-001	Daru Lestantyo, Suroto, Siswi Jayanti	Urine Analysis as Physiologic Response Predictor For Heat Stressed Works
ENV.06-003	Irwan Mulyadi, Fadly Putrjaya, Nur Hasanah, Sri Sumiati	Mercury content on hair as an indication of mercury exposure on gold miners in Tambang Sawah Village, Lebong Regency
ENV.06-004	Sulistiyani Sulistiyani, Nina Dwi Anggraeni, Nurjazuli Nurjazuli	Chlorine (Cl) in Rice on the Market (Study of Health Risk Analysis in Bintoro, Demak Regency)
ENV.06-005	Sri Winarni, Atik Mawarni, Ari Suwondo, Apoina Kartini, Hardhono Susanto, Bella Dwi Astuti	Impact of Pesticides on Cholinesterase and 8-OHdG Levels
ENV.06-006	Baju Widjasena, Siswi Jayanti, Daru Lestantyo	Pesticides Exposure and Cognitive Impairment on Farmers who lived in Agriculture Area
ENV.06-014	Eka Rosanti, Ratih Andhika Akbar Rahma, Mahmudah Hamawi	Acetylcholinesterase Levels in Farmers Exposed To Pesticides: Prevalence and Associated Factor
ENV.06-015	Novi Qonitatin, Endah Kumala Dewi	Positive Characters as a Shield Facing Covid-19: Efforts To Improve Subjective Well-Being of Women Workers
ENV.06-016	Dian Puspitaningtyas L, Y. Denny Ardyanto W, Shintia Yunita Arini	Rellationship of Job Competency , Personality Types and Mental Workload with Work Incident in Welder Fitters Occupational
ENV.06-017	Dian Afif Arifah, Ani Asriani Basri	Work stress analysis based on posture and physical exercise habits among La-Tansa Gontor Bakery's workers
ENV.06-018	Arih Diyaning Intiasari	Hearing impairment due to the habit of transporting heavy loads with Noken on Lani ethnicity in Tolikara District at Papua Province





ENV.06-020	Sera Budi Verinda, Eko Yulianto, G. Gunawan, Muhammad Nur	Ozonated nanobubbles - A potential hospital wastewater treatment during COVID-19 outbreak in Indonesia to eradicate the persistent SARS-CoV-2 in HWWs?
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EPI.03-007	Dwi Sutningsih, Vilianti Eka Fitri Rahatina, Yulianto Prabowo, Aris Haryanto, Mufti Agung Wibowo	Clinical Feature and Recovery Period for Covid-19 Patients in Central Java Province, Indonesia
EPI.03-012	Sunaryo, Dyah Widiastuti	Leptospirosis Surveillance Based on Public Health Center (An Early Diagnosis and Treatment Efforts of Leptospirosis Control in Bantul District, Yogyakarta)
EPI.03-020	Martini Martini, Anzala Khoirun Nisa, Retno Hestningsih, Sri Yuliawati, Atik Mawarni, Susiana Purwantisari	Population of Aedes aegypti as a Dengue Vector in Two Seasons : The Correlation of Dengue Hemorrhagic Fever (DHF) Incidence in Endemic Area of Semarang City, Indonesia
EPI.03-026	Lanny Sunarjo, Supriyana	Expression of COX-2 and Macrophage on Oral Ulcer Healing with Mangosteen Rind
EPI.03-033	Oktavia Beni Kujariningrum, Rita Laila Wulandari, Anisa Fathurohma, Vina Estetika Pakpahan, Devi Rahmawati, Hestu Ismah Sistikawati, Devi Kurnia Nur Anggraeni, Elisa Nurhayati, Muthia Anggira, Rofifatun Nisa, Anisa Nur Cahyanti, Nadhila Paramitha, Kharisma Olivia Anugrah Cahyani, Farid Agushybana, R Djoko Nugroho, Dharminto	Community Compliance of Physical Distancing, Clean And Healthy Lifestyle, And Healthy Protocol During COVID-19 Pandemic
EPI.03-034	Ririh Yudhastuti, M Farid D Lusno, Zida Husnina	Dengue Hemorrhagic Fever Control Model in Bali Province
EPI.03-011	Dwi Sutningsih, Aufiena Nur Ayu Merzistya, Yulianto Prabowo, Aris Haryanto, Mufti Agung Wibowo	Demographics And Travel History Overview of COVID-19 Patients In Central Java Province, Indonesia
EPI.03-016	Sri Handayani, Darayu C.	Risk Factors of Drop-Out Among

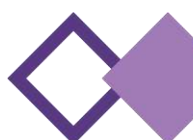




	Wilson, Mega Ndaru Utami, Yusthin Merianti Manglapy, Suharyo, Reece Hinchcliff	Tuberculosis Patients In Semarang: A Case Control Study
EPI.03-017	Fazidah Aguslina Siregar, Tri Makmur	The Influence of Compositional Factors And Contextual Factors on The Incidence of Hypertension In Medan
EPI.03-024	Retno Hestiningsih, Martini Martini, Nissa Kusariana, Atik Mawarni	Rodent Population In Traditional Markets And Settlements Around The Market In Semarang Indonesia As An Effort To Understand Rodent Borne Disease Transmission
PHN.05-025	Suci Ferdiana, Ulfa Amaliya Sakinah, Nurul Hidayati	Assessing The Nutrition Literacy And Its Relationship Between Snacking Habit, Nutritional Status And Gender

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BMC.02-016	Budiyono Budiyono, Suhartono Suhartono, Onny Setiyani, Nur Endah Wahyuningsih, Sulistiyani Sulistiyani, Nurjazuli Nurjazuli, Tri Joko, Mursid Raharjo, Yusniar Hanani Darundiati, Nikie Astorina Yunita Dewanti, Dharminto Dharminto, Praba Ginandjar, Septo Pawelas Arso	Population, Density, and Migrants and COVID-19 Cases in Semarang City
BMC.02-017	Cahya Tri Purnami, Soeharyo Hadisaputro, Lutfan Lazuardi, Ari Suwondo, Dian Ratna Sawitri, Sudiro	The Model of Electronic Surveillance System to Detect Women Pregnancy Risk and Its Effect on Psychological Stress Symptoms of Midwives
BMC.02-018	Ayun Sriatmi, Martini Martini, Retno Hestiningsih, Sutopo Patrio Jati, Syamsulhuda BM, Rani Tiyas Budiyanti, Budiyono	Basic Immunization Coverage among Under-Two-Year-Old-Baby (UTYOB) at High Risk Areas in Brebes Indonesia (in 2017-2019)
BMC.02-019	Hetty Ismainar, Hertanto W. Subagio, Bagoes Widjanarko, Cahyono	Health workers perceptions towards the compliance of Antenatal Care visit in Dumai city, Indonesia





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BMC.02-020	Chriswardani Suryawati, Priyadi Nugraha, Eka Yunila Fatmawati, Wulan Kusumastuti, Teguh Wibowo	Some Factors Related To Pregnant Women Participation in Mother Health Program In The Coastal Area, Bonang Subdistrict, Demak Regency, Indonesia
BMC.02-021	Asih Prasetyowati, SKM, M.Kes, Reni Murnita, SKM, M.Kes	Improvement of Healthy Family Index After Intervention in The Working Area of Puskesmas Sekaran of Semarang City
BMC.02-022	Tiara Asyfia Sidik, Professor Kiku Pavel Fedorovich	Demographic Problems In Indonesia
BMC.02-023	Antono Suryoputro, Rani Tiyas Budiyanti, Mela Nofitri, Murni	Development of “Sayang Ibu” : An Emergency Call Application for Pregnant Women
BMC.02-024	Dinar Saurmauli Lubis, Desak Putu Yuli Kurniati, Luh Putu Sinthya Ulandari, Ngakan Putu Anom Harjana	Kita Banget App: Developing a Smartphone-based Mobile Application for Better Access on HIV Testing and Treatment among Key Population
BMC.02-025	Tiara Asyfia Sidik, Professor Kiku Pavel Fedorovich	The impact of COVID-19 on dividend demographic in Indonesia
BMC.02-026	Hani Lutfiari Adila, Suyatno, Yudhy Dharmawan	Health Workers Support As The Most Influencing Factor For The Husband To Support Their Wives In Antenatal Care Visit

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EPI.03-019	Mitoriana Porusia, Ismi Tri Noviani	Factors related Dengue Haemorrhagic Fever Incident in Kadipiro, Surakarta, Indonesia
EPI.03-021	Nur Wulan Nugrahani, Ari Udiyono, Lintang Dian Saraswati	Factors Related To Sexual Behavior at Risk of Sexually Transmitted Infections (A Study at Semarang Class I Penitentiary)
EPI.03-022	Dr. Tri Ramadhani, SKM, MSc, Tri Isnani, S.Si, MPH, Bina Ikawati, SKM, M.Kes	Entomological Indicators and the Existence of Dengue Virus as an Effort to Determine the risk of DHF in Mempawah District, West Kalimantan
EPI.03-023	Sri Nuryani Wahyuningrum, Ika Puspita Asturiningtyas	Host risk factor of pneumonia among children aged 6 – 59 months in Indonesia: An analysis from National Basic Health Research Data
EPI.03-025	Aristya Julianto Sidharta, Indrayadi Gunardi, Rahmi Amtha	Development and Validation of Indonesian version of Modified Subjective Oral Health Status Indicator (Modified-SOHSI)
EPI.03-027	Gayatri, Rara Warih,	Social Economic Status And Periodontal





	Tama, Tika Dwi, Alma, Lucky Radhita, Low, Wah Yun, Dismara, Arwedya Brilyan	Disease in People Age 19-64 Years Old in Malang City, Indonesia
EPI.03-028	Erna Setiawati, Nina Gartika, Yayat Hidayat	Analysis of The Relationship Between Low Vision and Activity Daily Living in Diabetic Retinopathy and Glaucoma Patiens at Cicendo Eye Hospital Bandung
EPI.03-029	Tri Wijayanti, Bina Ikawati, Zumrotus Sholichah, Bondan Fajar Wahyudi, Dewi Marbawati	Increasing of Leptospirosis Case Fatality Rate: A Lesson From Leptospirosis in Pituruh And Purwodadi Districts
EPI.03-030	Sri Komalaningsih, Siti Fuadilla	The Risk of Physical Environment Home towards Leprosy Incidence in Subang District in 2019

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HPR.04-017	Meity Aisyah Dwiriani Patika Sari, Priyadi Nugraha, Aditya Kusumawati	Description of Health Promotion Activities in Narcotics Penitentiary Class II A Yogyakarta
HPR.04-018	Slamet Riyanto, Ika Puspita Asturiningtyas, Sidiq Purwoko, Aniek Prihatin, Ismi Setianingsih, Anggita Mirzautika, Zainuddin, Nafisah Nur'aini	Healthy Lifestyles at The Beginning of Covid-19 New-Normal Era in Indonesia
HPR.04-019	Narayana Prasad, Modesto Cruz, Sukanya Prasad, Hanifa Maher Denny	Health risk perception of COVID-19 in Caribbean countries
HPR.04-020	Meliana Handayani, Shah Faisal	Perceived Barriers in Incident Reporting among health professionals in a Secondary Care Hospital in Makassar, Indonesia
HPR.04-007	Dinni Asih Febriyanti, Jati Ariati	The Meaning of Garbage and Proenvironmental Behavior in The Eye of Elementary Student's
HPR.04-014	Dyah Widiastuti, Bina Ikawati, Sunaryo, Siwi Pramata Mars Wijayanti	Community Practice in Malaria Prevention after the Implementation of Intervention Programs in Purworejo, Magelang and Kulon Progo Regencies
HPR.04-021	Irfan Nafis Sjamsuddin,	Assessment of Skill Health Promotion





	Tuti Surtimanah	Officers in West Java Based on Professional Standards
HPR.04-022	Ratna Dian Kurniawati, Sarah, Ricky Hanjani	Knowledge and Motivation Analysis of Covid-19 Prevention as A Preventive Efforts To Disconnecting Chain of Covid-19
HPR.04-023	Izzatul Arifah, Rizky Larasati, Titin Kurniawati	Long term effect of sexual and reproductive health education for adolescent on college students' sexual behaviour
HPR.04-024	Sri Siswati	New Normal Life Style : Increased Use of Technology in Education During the Covid-19 Pandemic

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PHN.05-016	Etika Ratna Noer, Martha Ardiaria, Darmawati Ayu Indraswari, Luthfia Dewi, Mohammad Sulchan	Fasting Leptin And Acyl Ghrelin Levels In Obese And Lean Female
PHN.05-018	Kus Aisyah Amira, Trias Mahmudiono	The Effect of Knowledge To Self-Efficacy In Healthy Snacks Selection Among Elementary School Students
PHN.05-019	Kiki Rismadi, dr. Fazidah Aguslina Siregar. M. Kes.Ph.D, Prof. Dr. Ir. Albiner Siagian. M.Si	The Effect of Lifestyle on Hypertension Among Fisherman at Medan
PHN.05-020	Fahmi Arifan, Satriyo Adhy, Wisnu Broto, Sri RIsdhiyanti Nuswantari	The Variation of Jasmine Essential Oil for New Jasmine Aromatherapy Formulating
PHN.05-007	Suyatno, Agus Swandono, Martha Irene Kartasurya, Henry Setyawan	The impact of the inaccuracy measurement of anthropometry by Posyandu cadres on the classification of stunting of children under two years old
PHN.05-014	Sri Sunarti, Purwo Setiyo Nugroho, Kresna Febriyanto, Lia Kurnia Sari, Ayunda Dianandari, Ahmad Jufriyanto, Endang Setiawati, Mifthaqul Nurjanah, Rieke Chandra Utari	Relationship Between Watching Youtube (Eat And Food Content) To Obesity In Universitas Muhammadiyah Kalimantan Timur Student's
PHN.05-021	Salma Assyifa, Fillah Fithra Dieny, Aryu Candra, Enny Probosari	Identification of Somatotype Characteristics And Diet Inflammatory Index (DII) Profile In Female Adolescent Obese With Different Sub Type of Metabolic
PHN.05-022	Nur Afrina, Suyatno,	Relationship of smoking habits and

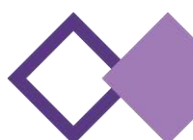




	Apoina Kartini	hemoglobin levels with adolescent physical fitness in Demak District, Indonesia
PHN.05-023	Suhartono, Apoina Kartini, Dina Rahayuning Pangestuti, Yusniar Hanani Darundiati, Budiyono, Nikie Astorina Yunita Dewanti, Sulistyawati	Calcium supplementation to reduce blood lead levels in pregnant women (Studies in the northern coastal region Brebes, Indonesia)
PHN.05-008	Suyatno, Agus Swandono, Martha Irene Kartasurya, Henry Setyawan, Siti Fatimah, Naintina Lisnawati	The performance excellence of stunting monitoring cadres compared to ordinary cadres in Toddler Nutrition Monitoring Status at Posyandu in Demak District, Indonesia

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ENV.06-009	Tri Joko, Mohammad Zen Rahfiludin, Nikie Astorina Yunita Dewanti	Environmental factors, demographics, and nutritional status in People with Subclinical Leprosy in Brebes
ENV.06-010	Blego Sedionoto, Sueptrakoo Wasessombat, Chuchard Punsawad, Witthaya Anamnart	Quality of soil and high prevalence of hookworm infection in Muarakaman and Marangkayu districts, Indonesia
ENV.06-011	Budiman, Febriyana Mustika Dewi	Compost Quality Analysis of In Addition Bioativator Effective Mogrooganism 4 (EM4), Molase And EM4+Molasse In Composting Organic Waste At Tpst 3r Melong Asih
ENV.06-012	Novia Luthviatin	Lead (Pb) Metal Distribution In The Mining Area of Bangka Island; Analysis of Potential Exposure And Its Effect on Human Health (Literature Review)
BMC.02-007	Sri Wahyuni, Titik Setyawan, Sunarto, Jeffri Ardiyanto, Ida Ariyanti	The Success of Early Breastfeeding by Endorphin, Oxytocin, Sugestive Massage Stimulation Plus Classical Music Therapy
ENV.06-007	Fahmi Arifan, S.T.M.Eng, Satriyo Adhy, Wisnu Broto, Sri Winarni, Sri RIsdhiyanti Nuswantari	Test formulation of jasmine (Jasminum sambac) essential oil as a mixture hand body lotion as a case study in Kaliprau, Pemalang
ENV.06-013	Nurjazuli Nurjazuli, Budiyono Budiyono, Nikie Astorina Yunita Dewanti, Denis Oxy Handika, Rodhwa Asma' Amanina	Behavior and environmental factor related to preventing measure on Covid-19 Pandemic in Central Java, Indonesia





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ENV.06-021	Reyno Pramudyono W, Fahmi Arifan, Anissa Yanuarina Putri, Sri RIsdhiyanti Nuswantari	Local Fish Conservation with the Construction of Fishway Facilities to Connect the Lakes of the Kehati Pupuk Kujang Garden
ENV.06-022	ADP Citra, HD Iswandari, Purwanto, Purwanto	Implementation of Occupational Health Safety in Informal Industry of Paving Block and Concrete Brick
BMC.02-014	Nila Kusumawati Elison, S. Kep, Ns, MPH , Dhini Anggraini Dhillon, M.Keb	The unassisted homebirth phenomenon with the assistance of husbands and or parents-in-law Riau Province, Indonesia: Qualitative research





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Health workers perceptions towards the compliance of Antenatal Care visit in Dumai city, Indonesia

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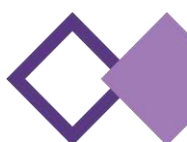
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Abstract

One of the efforts to reduce Maternal Mortality Rate (MMR) is to conduct Antenatal Care (ANC) programs routinely. Unfortunately, the problem is that the ANC coverage is still lowest in Dumai City, Indonesia. Objective. This study describes the perception of health workers towards the causes of the low coverage of ANC program visits. A qualitative approach with a phenomenological design. Data collection through in-depth interviews, Focus Group Discussions (FGD), and collected documents. Key informants consisted of Heads of Primary Health Care (10 subjects), Head of the Maternal Program, and Secretary of the Dumai City Health Minister. Data analysis used thematic analysis by transcripts text, meaning units, coding, and themes. This study explains that the causes of low ANC compliance based on worker's health perceptions are difficulties in accessing transportation in suburban areas. Low education and knowledge, still often seen less motivation of pregnant women to visit health facilities, communication, and work discipline of health workers lacking good, local myths, and culture about pregnancy. There are six themes obtained from this study, namely: accessibility, transportation, low education, motivation, communication, discipline, myth, and culture. It is necessary to develop health education programs, transportation infrastructure, improve the quality of human health resources, and regulation.

Keywords: Antenatal Care, Compliance, Health Workers



Health Workers' Perceptions Toward the Compliance of Antenatal Care Visit in Dumai City, Indonesia

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Abstract

Background: One of the efforts to reduce Maternal Mortality Rate (MMR) is to conduct Antenatal Care (ANC) programs routinely. Unfortunately, the problem is that the ANC compliance coverage is still the lowest (71.5%) in Dumai City, Indonesia. **Aims:** This study describes the perception of health workers toward the causes of the low coverage of ANC program visits. **Setting and Design:** This study used qualitative approach with a phenomenological design. **Methods and Material:** Data were collected by means of in-depth interviews, Focus Group Discussions (FGD), and documents collection. Key informants consisted of midwives (10 subjects), Heads of Primary Health Care units (10 subjects), Head of Maternal Program, and Secretary of the Dumai City Health Office. **Statistical analysis used:** Data were analyzed using thematic analysis by transcript texts, meaning units, coding, and themes. **Results:** This study explained that the causes of low ANC compliance based on health workers' perceptions were the difficulties in accessing transportation in suburban areas, low education and knowledge, lack of motivation of pregnant women to visit health facilities, communication, poor work discipline of health workers, local myths, and culture about pregnancy. **Conclusion:** There were six themes obtained from this study, namely: accessibility and transportation, low level of education, motivation, communication, discipline, as well as myth and culture. It is necessary to develop health education programs and transportation infrastructure, as well as to improve the quality of health human resources and regulation.

Keywords: Antenatal Care, Compliance, Health Workers' Perceptions

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Introduction

The high Maternal Mortality Rate (MMR) in Indonesia of 350/100,000 live births is a major problem. The Indonesian government has made several efforts to reduce MMR, including the Safe Motherhood Program, Mother Care Program, Making Pregnancy Safer, and the Maternal and Neonatal Survival Expanding program, even though the MMR is still not in line with the expected target of 102/100,000 live births.¹⁻³ One of the efforts to reduce MMR is the attempt to focus on Antenatal Care (ANC) and maternal education. Twenty percent of pregnancies are predicted to experience complications, and 20.3% will result in mortality if no comprehensive treatment is carried out.^{4,5}

Routine ANC services can detect risks during pregnancy early.^{6,7} Four ANC visits are useful to reduce MMR in the world.^{8,9} Indicators of assessment of health services for pregnant women in Indonesia are seen through the coverage rates of K1 (1st ANC visit) and K4 (4th ANC visit). From 2005-2015, coverage of the 1st and 4th visits approached the target of 88.6%-95.7%. Riau is the province with the lowest K4 coverage at 85.67%. Dumai City is one of the cities in Riau Province with the lowest ANC coverage (74.9% for the 1st visit and 71.57% for the 4th visit).²

The behavior to conduct ANC visits is an individual perception that is influenced by three domains: knowledge, attitude, and practice.¹⁰ The low number of ANC services utilization is caused by the lack of focus on the quality of ANC services such as facilities, health workers, economic aspect, and socio-cultural aspect.¹¹⁻¹³ However, in this study, we want to discover the cause of the low number of ANC program coverage from the perception of health workers.

Subjects and Methods

The research method used was qualitative with phenomenological design. There were 22 respondents who participated in this study. They consisted of ten midwives, ten heads of Primary Health Care units in Dumai City, secretary of the Health Office, and head of maternal program. The research was conducted for four months (June-September 2019). The process of data collection was carried out using in-depth interviews, FGD, and documents collection. The in-depth interview process took an average of 30-45 minutes. The duration of FGD was approximately \pm 120 minutes. The FGD was guided by facilitator using semi-structured discussion guidelines. Data were analyzed using thematic analysis by transcript texts, meaning units, coding, and themes.

Results and Discussion

ANC is a pregnancy checkup conducted to optimize the mental and physical health of pregnant women.^{14,15} The purpose of ANC visit is to facilitate and manage pregnancy complications

promptly in order to reduce maternal mortality.¹⁶ Research related to risk factors for Maternal Mortality explain that the number of ANC visit is still low, which results in increased morbidity and mortality.^{17,18}

Several causes of ANC compliance are knowledge, attitudes, beliefs, motivations, self-concept, age, experience, and health workers' skills.^{19,20} Interactions with the closest people refer to family support, husband support, and social community support.²¹⁻²³ Health service facilities, health workers' skills, and transportation access also become other factors.^{24,25}

1. Accessibility and Transportation

Many rivers surrounded the geographical location of this area, meaning that pregnant women's access to health care was quite far. Moreover, access to public transportation was infrequent. Some of these reasons often became the reason for pregnant women to not routinely visit ANC unit. The following are several quotes from the interviews:

"It is true that distance is a problem for the pregnant women, that is the reason why I cannot tell them about the schedule of pregnancy checkup, as the distance is just too far" (Midwife 1) Text 1

"The obstacles faced are quite possibly the distance that must be covered, as well as the fact that no one wants to escort the women to the health center" (P-1) Text 1

"One of the obstacles is transportation, and some mothers have to wait for their husbands" (P-2) Text 2

"Because of their geographical location, the two locations are difficult to access" (P-3) Text 3

"The obstacle in our place is usually the long distance, and the road is not easy to traverse. Yeah, there are no primary health facilities" (P-4) Text 4

The geographical condition of an area strongly influences pregnant women's access to health facilities.²⁶ Access to cover the distance and transportation problems have always been significant obstacles in this area.

2. Low Level of Education

The majority of pregnant women in the area only graduated from junior high and senior high school. There were even those who were elementary school graduates. Low level of education affects personal knowledge.²⁷ The following are some quotes from the interviews:

"The average education level of pregnant women here is still low, Senior High School is the highest degree here, it's rare, especially in the similar Bagan Keladi area, there are junior high school graduates, some are even elementary school graduates, but they can read" (Midwife 2, 3,4) Text 2

"How to put this... the lack of public knowledge regarding the importance of pregnancy checkup is the problem" (P-5) Text 5

"Lack of maternal knowledge, lack of important information concerning pregnancy checkup" (P-6). Text 6

Level of education can affect individual mindset as it determines the ability to obtain information; maturity of thought is accompanied by the status of the level of education. Mothers who live in rural areas with low levels of education and low socioeconomic conditions tend to not make regular ANC visits.²⁸

3. Motivation

Motivation is a condition within a person that drives an individual's desire to do certain activities. The desire of pregnant women to do ANC in this area was still low. The following are several quotes from the interviews:

"There are pregnant women who are ashamed to undergo pregnancy checkup because they already have many children (midwife 5) Text 3

"We always inform pregnant women to take pregnant women classes, but they always have a lot of excuses. No one can take them there, their children cannot look after the house, those are examples of their excuses (midwife 6) Text 4

"Our area is in the middle of the city, yet there are still many pregnant women who are too lazy to undergo pregnancy checkup at the primary health center unit" (P-7) Text 7

"Sometimes the pregnant women do not feel any medical complaints, so they think that there is no need for routine ANC visit " (P-8)Text 8

"The point is, we see that the desire of pregnant women to do pregnancy checkup is still lacking" (P-11) Text 9

One of the causes of the low motivation to undergo pregnancy checkup is ignorance regarding pregnancy. This is usually experienced by adolescent pregnant women and mothers who already have many children.^{29, 30} Grand multiparas are susceptible to the risk of hypertension, pre-eclampsia, and eclampsia. The rates of such incidence are still high in developing countries.³¹⁻³³

4. Communication

Excellent communication between health workers and patients will result in satisfaction toward the health service.^{34,35} Patients will feel comfortable and obtain sufficient information if the delivery of information is conducted communicatively. The following are interview quotes about the communication problem;

"It is difficult to communicate with areas that are far from the Primary Health Care unit due to bad signals, the electricity also often goes out, meaning that they cannot receive any information (midwife 7) Text 5

"The obstacle that we experience is usually about the character of the health workers. Their manners when communicating with patients are sometimes not good" (P-3) Text 10

"Actually, if given the information to routinely conduct pregnancy checkup as well as the checkup schedule, pregnant women would definitely want to come" (P-12). Text 11

In this study, the condition of the education level of pregnant women in this area was still low, so a communication approach that was easily understood by pregnant women was needed.

5. Discipline

Work discipline does not just suddenly appear, but it is the result of a continuous learning process. Increasing the control of health workers will create high performance. Customer satisfaction will emerge from the services provided by creating quality health services. In this study, the discipline of health workers was still a problem. The following are some quotes from the interview:

"They do not come regularly according to their pregnancy. In the first trimester of pregnancy they do not want to leave the house so they miss their first visit (Midwife 8) Text 6

"Sometimes this is just a program, and it does not run optimally due to the lack of discipline. There is no in-depth evaluation of this program" (P-9) Text 12

"There must be appropriate regulations for the performance of midwives. They will work in a disciplined manner if they have the right amount of salary" (P-11) Text 13

To improve discipline, proper guidance and regulations regarding the quality of human resources are needed. One of the controls is time discipline. Time discipline determines the quality of work in priority health services.

6. Myth and Culture

During pregnancy, mothers are advised to understand which information are correct and which ones are only myths. In this study, the myth and culture of the people in this city were that in the first-trimester of pregnancy women could not leave their home. There were pregnant women who still visited Shaman to get her pregnancy examined. The following are the interview quotes:

"They still go to the shaman to be examined, even if it's just for massage. Their reason is that they are comfortable with the shaman and they have known them from their family for a long time" (midwife 9, 10) Text 7

"Pregnant women still want to be examined by a shaman because they still feel comfortable and the practice has become a custom" (P-6) Text 14

"Sometimes, there is a myth from the family. If you are still in the first trimester of pregnancy, you should not leave the house, and thus the pregnant women will miss the K1 coverage" (P-10) Text 15

Trust in shamans depends on individual character.³⁶ So it needs a personal approach in providing the right understanding of these characters. Personal approaches and the provision of health information about the importance of handling health services by health workers. The stages of the process of qualitative analysis are transcript texts, meaning units, coding, and themes.

Table 1. Summary of Qualitative Analysis Steps from Key Informants

Respondent	Transcript Text	Meaning Unit	Coding	Theme
M-1	Text 1	o Long distance	o Distance	Access
M-2,3,4	Text 2	o Low education	o Education	Education
M-5	Text 3	o Ashamed to be examined	o Low knowledge level	Motivation
M-6	Text 4	o No one can escort to health center	o Transportation	Transportation
M-7	Text 5	o Difficult communication	o Signal error	Communication
M-8	Text 6	o Unwillingness to come routinely	o No regular checkups	Discipline
M-9	Text 7	o Go to the shaman to be examined	o Comfortable	Myth
M-10	Text 7	o Family advice	o Family support	Family Culture

Abbreviation = M: Midwife

Table 2. Summary of Qualitative Analysis Steps from Supporting Informants

Respondent	Transcript Text	Meaning Unit	Coding	Theme
P-1	Text 1	<ul style="list-style-type: none"> o Long distance o No one can escort to health center 	<ul style="list-style-type: none"> o Distance o Escort 	<ul style="list-style-type: none"> Access Transportation
P-2	Text 2	<ul style="list-style-type: none"> o Transportation issue o Wait for husband to escort 	<ul style="list-style-type: none"> o Transportation o Wait for husband 	<ul style="list-style-type: none"> Transportation
P-3	Text 3	<ul style="list-style-type: none"> o Geographical location o Difficult to access 	<ul style="list-style-type: none"> o Location o Access 	<ul style="list-style-type: none"> Access
P-4	Text 4	<ul style="list-style-type: none"> o Long distance o The road is not easy to traverse 	<ul style="list-style-type: none"> o Distance o Access 	<ul style="list-style-type: none"> Access
P-5	Text 5	<ul style="list-style-type: none"> o Lack of knowledge o Information check 	<ul style="list-style-type: none"> o Knowledge o Information 	<ul style="list-style-type: none"> Education
P-6	Text 6	<ul style="list-style-type: none"> o Maternal knowledge o Pregnancy risk 	<ul style="list-style-type: none"> o Knowledge o Information 	<ul style="list-style-type: none"> Low Education Level
P-7	Text 7	<ul style="list-style-type: none"> o Too lazy to undergo checkup o Go to the doctors' clinic 	<ul style="list-style-type: none"> o Lazy o Clinic 	<ul style="list-style-type: none"> Motivation
P-8	Text 8	<ul style="list-style-type: none"> o Does not have any medical complaints 	<ul style="list-style-type: none"> o No complaints 	<ul style="list-style-type: none"> Motivation
P-11	Text 9	<ul style="list-style-type: none"> o The pregnant women's lack of desire 	<ul style="list-style-type: none"> o Lack of desire 	<ul style="list-style-type: none"> Motivation
P-3	Text 10	<ul style="list-style-type: none"> o The characters of health workers o Communication with patients 	<ul style="list-style-type: none"> o Character o Communication 	<ul style="list-style-type: none"> Communication
P-12	Text 11	<ul style="list-style-type: none"> o Informed to check routinely 	<ul style="list-style-type: none"> o Information 	<ul style="list-style-type: none"> Communication
P-9	Text 12	<ul style="list-style-type: none"> o Lack of discipline program 	<ul style="list-style-type: none"> o Discipline program 	<ul style="list-style-type: none"> Discipline
P-11	Text 13	<ul style="list-style-type: none"> o Work discipline 	<ul style="list-style-type: none"> o Discipline 	<ul style="list-style-type: none"> Discipline
P-6	Text 14	<ul style="list-style-type: none"> o Examined by a shaman 	<ul style="list-style-type: none"> o Shaman 	<ul style="list-style-type: none"> Culture
P-10	Text 15	<ul style="list-style-type: none"> o Myth from the family 	<ul style="list-style-type: none"> o Myth 	<ul style="list-style-type: none"> Myth

Abbreviation = P: Person

Tables 1 and 2 show that based on health workers' perception, the factors that caused the low coverage of the ANC program were transportation, education, motivation, communication, discipline, myth, and culture. The limitation of this study was the fact that it only determined the perception of health workers. Further research is needed for other perspectives (pregnant women, social support, and other communities).

Conclusion

This study concluded that the six causes of low ANC compliance in Dumai City were accessibility and transportation, education, motivation, communication, discipline, as well as myth and culture. It is necessary to develop an ANC program to increase the coverage of ANC visits, especially by creating and promoting health education programs, completing the infrastructure of

transportation, improving the quality of health human resources, and issuing appropriate government regulation.

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Ethical Clearance

The Ethics Committee for Health Research, Diponegoro University (No.240/EA/KEPK-FKM/2018).

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September, 29 - 30th, 2020

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