

4TH INTERNATIONAL CONFERENCE ON

PUBLIC HEALTH

2018

" Promoting Quality and Safety in Health Care towards Healthy Communities "

19-21 JULY 2018 | BANGKOK, THAILAND

BOOK OF ABSTRACTS

ORGANIZED BY

HOSTED BY

ACADEMIC PARTNERS













publichealthconference.co

Book of Abstracts 4th International Conference on Public Health (ICOPH 2018)

19th – 21st July, 2018 Bangkok, Thailand

Committee of the ICOPH - 2018

The International Institute of Knowledge Management (TIIKM)

Tel: +94(0) 11 3132827

info@tiikm.com

Disclaimer

The responsibility for opinions expressed in articles, studies and other contributions in this publication rests solely with their authors, and this publication does not constitute an endorsement by the ICOPH or TIIKM of the opinions so expressed in them.

Official website of the conference

www.publichealthconference.co

Book of Abstracts of the 4th International Conference on Public Health (ICOPH 2018)

Edited by Prof. Dr. Hematram Yadav and Prof. Dr. Rusli Bin Nordin

ISBN 978-955-3605-05-4

Copyright @ 2018 TIIKM

All rights are reserved according to the code of intellectual property act of Sri Lanka, 2003

Published by The International Institute of Knowledge Management (TIIKM), No: 531/18, Kotte Road, Pitakotte, 10100, Sri Lanka

Tel: +94(0) 11 3098521

Fax: +94(0) 11 2873371

Hosting Partner:

MAHSA University, Malaysia

Academic Partners:

Faculty of Medical Sciences, University of Sri Jayewardenepura, Sri Lanka

University of Muhammadiyah Malang, Indonesia

Sikkim Manipal University, India

North South University, Bangladesh

Organized By:

The International Institute of Knowledge Management (TIIKM), Sri Lanka

PCOPH 2018 Committee * Part of the Part of	
PROF. DR. HEMATRAM YADAV	(Conference Co-Chair, ICOPH 2018)
*	Department of Community Medicine, MAHSA University, Malaysia
PROF. DR. RUSLI BIN NORDIN	(Conference Co-Chair, ICOPH 2018)
•	Monash University, Malaysia
PROF. ERNEST MADU	(Keynote Speaker, ICOPH 2018)
	Chairman and CEO of the Heart Institute of the Caribbean, Jamaica
PROF. JOHN P. ELDER	(Keynote Speaker, ICOPH 2018)
	Distinguished Professor and Division Head, Division of Health Promotion and Behavioral Science, San Diego State University, USA
DR. CHAIPORN PROMSINGH	(Keynote Speaker, ICOPH 2018)
	Ministry of Public Health, Thailand
DR. KEITH BUCKLEY	(Plenary Speaker, ICOPH 2018)
	Director of Physical and Health Education, USA
PROF. DR. PEI LIN LUA	(Plenary Speaker, ICOPH 2018)

Malaysia

Universiti Sultan Zainal Abidin (UniSZA),

PROF. STEVEN L. WEST (Plenary Speaker, ICOPH 2018) Professor and Chair, Counséling, Educational Psychology and Research, The University of Memphis, USA PROF. DR. FORHAD AKHTAR ZAMAN (Plenary Speaker, ICOPH 2018) Sikkim Manipal Institute, India DR. NASRIN BANU LASKAR (Plenary Speaker, ICOPH 2018) Sikkim Manipal Institute of Medical Sciences, India DR. RAGHIB ALI (Plenary Speaker, ICOPH 2018) Director of the Public Health Research Center at NYU Abu Dhabi, United Arab Emirates (Plenary Speaker, ICOPH 2018) ASSOC. PROF. M. NASIR UDDIN Texas A&M University College of Medicine, USA DR. J. PAULO MOREIRA (Plenary Speaker, ICOPH 2018) Princeton Healthcare International (Director for Europe; Senior Associate for China), USA DR. JO ANN ANDOY GALVAN (Session Chair, ICOPH 2018) Taylor's University, Malaysia DR. SHIROMI MADUWAGE (Session Chair, ICOPH 2018) Consultant Community Physician, Sri Lanka DR. SAIRA MEHNAZ (Session Chair, ICOPH 2018) Aligarh Muslim University, India (Session Chair, ICOPH 2018) DR. KYU KYU THAN Burnet Institute, Australia DR. SHYAMKUMAR SRIRAM (Session Chair, ICOPH 2018) University of South Carolina, Columbia, USA DR. ARIS WIDAYATI (Session Chair, ICOPH 2018) Universitas Sanata Dharma, Indonesia

(Session Chair, ICOPH 2018)

TIA Bio-Consulting, Malawi

DR. FINGANI ANNIE MPHANDE-NYASULU

PROF. GIAS U. AHSAN (Session Chair, ICOPH 2018)

North South University, Bangladesh

DR. NATHANAEL SIRILI (Session Chair, ICOPH 2018)

Umeå University, Sweden

DR. MUTALAZIMAH (Session Chair, ICOPH 2018)

Universitas Muhammadiyah

Surakarta,

Indonesia

DR. KRISHNADAS V.T. MENON (Session Chair, ICOPH 2018)

Amala Medical College, India

DR. ISLAM AMINUL (Session Chair, ICOPH 2018)

North South University, Bangladesh

DR. MOHAMMAD DELWER HOSSAIN HAWLADER (Session Chair, ICOPH 2018)

North South University, Bangladesh

PROF. HAE-JIN KO (Session Chair, ICOPH 2018)

Kyungpook National University, Korea

DR. SOHIDUL ISLAM (Session Chair, ICOPH 2018)

North South University, Bangladesh

DR. IRFAN NOWROZE NOOR (Session Chair, ICOPH 2018)

National Institute of Preventive and Social

Medicine, Bangladesh

DR. NIZAM UDDIN AHMED (Session Chair, ICOPH 2018)

North South University, Bangladesh

DR. MARY A.-COLEMAN (Session Chair, ICOPH 2018)

University of Ghana, Ghana

PROF. JAKARIYA (Session Chair, ICOPH 2018)

North South University, Bangladesh

ASSOC. PROF. KHADIJA LEENA (Session Chair, ICOPH 2018)

North South University, Bangladesh

DR. MOHAMMAD NASIR UDDIN (Session Chair, ICOPH 2018)

North South University, Bangladesh

MR. ISANKA, P. GAMAGE

(Conference Convener, ICOPH 2018)

The International Institute of Knowledge

Management, Sri Lanka

MR. OSHADEE WITHANAWASAM

(Conference Publication Chair, ICOPH 2018)

The International Institute of Knowledge

Management, Sri Lanka

MR. SARANGA MEEPITIYA

(Conference Secretariat, ICOPH 2018)

The International Institute of Knowledge

Management, Sri Lanka

Editorial Board - ICOPH 2018

Editors in Chief

Prof. Dr. Hematram Yadav, Department of Community Medicine, MAHSA University, Malaysia

Prof. Dr. Rusli Bin Nordin, Monash University, Malaysia

The Editorial Board is not responsible for the content of any research paper

Scientific Committee - ICOPH 2018

Dr. Narendra Babu, Taylor's University, Malaysia

Dr. Low Bin Seng, Taylor's University, Malaysia

Dr. Jo Ann Andoy Galvan, Taylor's University, Malaysia

Dr Ahmad M. Qureshi., Monash University, Malaysia

Dr. Adeline Chia, Taylor's University, Malaysia

Prof. Hematram Yadav, MAHSA University, Malaysia

Prof. Dr. Rusli Bin Nordin, Monash University, Malaysia

Prof. Chrishantha Abeysena, University of Kelaniya, Sri Lanka

Assoc. Prof. Haejoo Chung, Korea University, Korea

Dr. Sampatha Goonewardena, University of Sri Jayewardenepura, Sri Lanka

Dr. B. Kumarendran, University of Kelaniya, Sri Lanka

Dr. Munir Qureshi, Monash University Malaysia

Dr. Gul Muhammad Baloch, Taylor's University, Malaysia

Prof. (Dr) Forhad Akhtar Zaman, Sikkim Manipal University, India

Brig. (Dr) Vijay Mehta, Sikkim Manipal University, India

Dr. Nasrin Banu Laskar, Sikkim Manipal University, India

Dr. B. Kumarendran, University of Kelaniya, Sri Lanka

Dr. Nilanjana Ghosh, North Bengal Medical college, India

Dr. Sapna Shridhar Patil, Taylors University, Malaysia

Dr. Sampatha Goonewardena, University of Sri Jayewardenepura, Sri Lanka

Dr. Haejoo Chung, Korea University, Korea

Asst. Prof. Xuan Chen, Emory University, Georgia

Dr. Hematram Yadav, MAHSA University, Malaysia

Dr. Adeline Chia Yoke Yin, Taylor's University, Malaysia

Dr. Ahmad Munir Qureshi, Monash University Malaysia, Malaysia

Dr. Jo Ann Andoy Galvan, Taylor's University, Malaysia

Dr. Narendra Babu Shivanagere Nagojappa, Taylor's University, Malaysia

Dr. Gul Muhammad Baloch, Taylor's University, Malaysia

Assoc. Prof. Nithat Sirichotiratana, Mahidol University, Thailand

Dr. Adam Dawria Ibrahim, Shendi University, Sudan

Dr. Farhan Abdul Rauf, Public Health Physician/Researcher, Consultant - Rehabilitation & Disabilities

Dr. Ahmed Hossain, North South University, Bangladesh

Dr. Sunee Lagampan, Mahidol University, Thailand

Asst. Prof. Dr. Charuwan Tadadej, Mahidol University, Thailand

Prof. Yael Latzer, University of Haifa, Israel

Dr. Saira Mehnaz, Aligarh Muslim University, India

Prof. Dr. G.U. Ahsan, North South University, Bangladesh

Dr. Kulanthayan K.C. Mani, Universiti Putra Malaysia, Malaysia

Dr. Mohammad Nasir Uddin, North South University, Bangladesh

Prof. Md. Jakariya, North South University, Bangladesh

Dr. Gita Sekar Prihanti, University of Muhammadiyah Malang, Indonesia

Dr. Mohammad Delwer Hossain Hawlader, North South University, Bangladesh

Prof. Aminul Islam, North South University, Bangladesh

Dr. Dian Yuliartha Lestari, University of Muhammadiyah Malang, Indonesia

Dr. Meddy Setiawan, University of Muhammadiyah Malang, Indonesia

Dr. Sohidul Islam, North South University, Bangladesh

Prof. Fong, Siu Ming Shirley, The University of Hong Kong, Hong Kong

Assoc. Prof. Khadija Leena, North South University, Bangladesh

Prof. Anita Abd Rahman, Universiti Putra Malaysia, Malaysia

Assoc. Prof. Nizam Uddin Ahmed, North South University, Bangladesh

Prof. Anita Abd Rahman, Universiti Putra Malaysia, Malaysia

Prof. Sanghamitra Sheel Acharya, Jawaharlal Nehru University, India

Dr. Md. Shahjahan, Daffodil International University, Bangladesh

Dr. Gita Sekar Prihanti, University of Muhammadiyah Malang, Indonesia

Dr. Dian Yuliartha Lestari, University of Muhammadiyah Malang, Indonesia

Dr. Meddy Setiawan, University of Muhammadiyah Malang, Indonesia

Prof. Anita Abd Rahman, Universiti Putra Malaysia, Malaysia

Prof. Siu Ming Shirley Fong, The University of Hong Kong, Hong Kong

Prof. Sanghamitra Sheel Acharya, Jawaharlal Nehru University, India

Dr. Mohammad Delwer Hossain Hawlader, North South University, Bangladesh

Dr. Md. Shahjahan, Daffodil International University, Bangladesh

Prof. Anita Abd Rahman, Universiti Putra Malaysia, Malaysia

Dr. Ahmed Hossain, North South University, Bangladesh

Dr. Kulanthayan K.C. Mani, Universiti Putra Malaysia, Malaysia

Dr. Sunee Lagampan, Mahidol University, Thailand

Asst. Prof. Dr. Charuwan Tadadej, Mahidol University, Thailand

Prof. Yael Latzer, University of Haifa, Israel*

Dr. Nizam Uddin Ahmed, North South University, Bangladesh

MESSAGE FROM THE HOSTING PARTNER ICOPH 2018



Thank you for allowing me to say a few words in this 4th International Conference on Public Health (ICOPH) 2018. Firstly, I must congratulate TIIKM and its collaborators for organising this conference and I understand that this conference is focusing on quality of health care. Quality is a real problem not only in health care but in all sectors of the industry including Universities. Quality as we know is the end-point of everything we do and it is setting standards at all level of the organization and making sure that the standards are met. Therefore many factors impact on quality. To improve quality of health care, it is not only the consumers and the providers who need to be addressed but also the availability of resources that affect quality of care in health care. Therefore in improving quality and safety of the health care we improve the practice, innovate new ideas, improve assess in health care, readjust our processes, and improve practice of health care. For us to improve quality we need to feel a sense of urgency, we need to be tireless and keep up the pressure. From what we implement not everything works so we need to learn what works, so that we can draw maps to help others.

I understand that the main purpose in this conference is to discuss and debate all the best ideas we can muster to improve quality and safety in health care in our work place, because it is simply not acceptable that millions of people globally are injured, and tens of thousands die every year, from medical errors that don't need to occur. Globally the public today knows much more about quality and safety in health care and their expectations are high. The public is looking for dramatic reductions in medical errors. They expect health information technologies to help in reducing errors. In many areas of the world mobile technology is

transforming health care. It can help a lone health worker in the most remote and isolated village to get up to date training and provide high quality care and it can also help connect health worker to obtain latest information that can save lives. For instance in Liberia during the Ebola outbreak the Ministry of Health sent critical information to health workers' through mobile phones to all parts of the country and similarly the health workers used to send time-sensitive information to ministry officials and to one another. In future this type technology will help other countries combating outbreaks and prepare them for future health threats as well.

I understand that there are over 30 countries being represented in the conference with about 700 abstracts and posters. I wish to congratulate the organizing committee making this conference happen and I am proud that MAHSA University is part of this endeavor. I understand that MAHSA University students and staff are actively involved in presenting papers in the conference. I wish all the participants and staff all the best and I am sure you all will deliberate and make the best use of the time in this conference

Thank you,

Prof. Tan Sri Datuk Dr. Hj. Mohamed Haniffa bin Hj. Abdullah, Pro-Chancellor and Executive Chairman, MAHSA University, Kuala Lumpur, Malaysia.

MESSAGE FROM THE CONFERENCE CO-CHAIR ICOPH 2018



It gives me great pleasure to welcome all of you to this 4th International Conference on Public Health (ICOPH 2018) in Bangkok, Thailand. As you all know the theme of this conference is 'Promoting Quality and Safety in Health Care towards Health Communities' and this is very timely as we are facing quality problems in health care globally. Although globally public health is no longer dominated by infectious diseases but dominated by non-communicable diseases such as chronic diseases (heart disease, diabetes, cancer, and mental-health condition), but infectious diseases do still play an important role and pose challenges to global health security. It is therefore imperative that quality of health care play an important role in the prevention of these diseases.

Quality healthcare is defined as providing effective and efficient healthcare services according to the current clinical guidelines and standards, which meets the patient's needs. It is important and urgent that we implement the principles of quality assurance in all areas of health care including Public Health. The health care provided must not only be efficient and effective but it must also be evidence based. Measurement and assessment of quality are equally important and the two most important methods to assess quality are cost effective and cost efficient. Although many of the basic tools of quality are available, we seldom apply these in our work place to assess programmes to see whether they are effective or not. I hope that this conference will provide you a platform for understanding the concept of quality and that you will be able to apply these concepts when you return.

This year we have received more than 700 abstracts for the conference and we are happy of the tremendous response and support we have received. I am particularly happy that we have participants who have been regularly attending the last few conference and I would like to thank them for their support. I am sure that you all will deliberate and discuss some of the important issues in the next few days and will not only network and take home new ideas but will also implement some of these ideas when return. Finally let me take this opportunity to thank all the plenary speakers and members of the organising committee for the excellent preparations and arrangements for this conference and most importantly you the participants who have made this conference happen. I would like to thank all the academic partners, all universities and collaborators particular the Ministry of Health, Thailand for providing the support for this conference. Hope you will have good time the next few days but don't forget to enjoy the beauty of Thailand while you are here.

Thank you and regards,

Prof. Dr. Hematram Yadav, Co-Chairman Organising Committee, Department of Community Medicine, MAHSA University, Kuala Lumpur, Malaysia.

MESSAGE FROM THE CONFERENCE CO-CHAIR ICOPH 2018



Welcome to the 4th International Conference on Public Health (ICOPH 2018) with the theme: Promoting Quality and Safety in Health Care towards Healthy Communities. On behalf of the Organizing Committee, Prof. Hematram Yadav and I would like to warmly welcome you to Bangkok, Thailand with the Thai's customary welcoming address of Sawasdee! We would like to thank everyone for making your time and effort to attend this international conference. In particular, to the event organizer, TIIKM (The International Institute of Knowledge Management), under the abled stewardship of Mr Isanka P. Gamage, co-founder and managing director, and his elite group of highly talented, motivated, and dedicated young entrepreneurs; scientific committee members who have voluntarily supported the arduous task of reviewing abstracts for the conference; hosting partner (MAHSA University); academic partners (Faculty of Medical Sciences, University of Sri Jayewardenepura, Sri Lanka; University of Muhammadiyah Malang, Indonesia; Sikkim Manipal University, India; North South University, Bangladesh); strategic partners [The 16th World Congress of the European Association for Palliative Care (EAPC 2019); International Conference on Community Nursing and Public Health 2018]; Tour & Accommodation Partner (GLOBEENJOY); Event partner (Blue Arc); and ALL keynote and plenary speakers, sessions chairs, delegates and accompanying persons, including virtual presenters. Thank you all for supporting ICOPH 2018!

The quality and safety of healthcare is one of the most important factors in health and it has become one of the global health priorities to ensure healthy lives and promote well-being for all. This global commitment is contained in the Third Sustainable Development Goal of the World Health Organization (SDG3: Ensure healthy lives and promote well-being for all at all ages). Quality improvement is meant for enhancing safety, effectiveness, and efficiency of health care which can be achieved through various quality methods. The quality of healthcare is applicable for all levels of health care including health education system and advanced technologies. ICOPH 2018 creates a great platform to discuss current landscape and next steps for improving quality of health care. The conference will bring together leading academicians, medical students, clinicians, public health professionals, health care specialists, health care workers, health economists, researchers, scientists, health workers, policy makers, social workers and other related professionals. ICOPH 2018 is a global gathering with renowned speakers, presentations, panel discussions, round table discussions, and valuable networking opportunities.

The organizers have prepared an impressive list of 16 conference tracks, publication and conference chair workshop, round table discussion, students' session and gathering, and exhibition, as well as opportunities to publish selected full papers in high quality international, peer-reviewed journals. Four award categories have been created to honour the best presentations: best presentation award, best student presentation award, sessions' best award, and best poster presentation award. Two eminent keynote speakers will deliver stateof-the art lecture on the following: Dengue infections and Childhood Obesity: Battling Epidemics that know no Boundaries (Prof. John P. Elder, Distinguished Professor and Division Head, Division of Health Promotion and Behavioral Science, San Diego State University, United States), and Reducing the Global Burden of Cardiovascular Disease: A Model for Sustainable Cardiac Care Development in Developing Countries (Prof. Ernest Madu, Founder of the Heart Institute of the Caribbean), and a special guest speaker from Thailand, Dr. Chaiporn Promsingh, Medical Officer on Health Promotion, Advisory Level, Office of Senior Advisor Committee, Department of Health, Ministry of Public Health, Thailand. Eight plenary speakers have agreed to share their experiences in this conference: Prof. Dr. Forhad Akhtar Zaman (Global Burden of Tuberculosis & Drug Resistant TB), Dr. Nasrin Banu Laskar (Clean India Mission), Dr. Raghib Ali (Cardiovascular Disease), Dr. Keith Buckley (Evaluating the Right to Affordable Healthcare), Prof. Dr. Pei Lin Lua (Community Health Education Empowerment Via e-Health Innovations), Prof. Steven L. West (Routine Dental Exams of Persons with Disabilities in the U.S.), Assoc. Prof. M. Nasir

Uddin (Molecular pathogenesis of preeclampsia and its potential therapeutics) and Dr. J. Paulo Moreira (Financing Health and Wellness Tourism Projects: Success Factors).

The conference will be an excellent opportunity to network and discuss current issues in public health across the globe, with the scope aligned towards the understanding and realization of the World Health Organization's Third Sustainable Development Goal (SDG3). Following from ICOPH 2017 in Kuala Lumpur, we will need to discuss the following issues and practical solutions: What will be the barriers each country would face when achieving these targets in 2030's? How to overcome those barriers? What are the measures that can be taken? The role of Governments and Industries, and how scientific research can support the achievement of the targets in 2030's.

Finally, as agreed during the round table discussions in ICOPH 2017, we need to re-appraise the following Health Targets for SDG3:

- By 2030, reduce the global maternal mortality ratio to less than 70 per 100 000 live births.
- By 2030, end preventable deaths of newborns and children under 5 years of age, with all
 countries aiming to reduce neonatal mortality to at least as low as 12 per 1000 live births
 and under-5 mortality to at least as low as 25 per 1000 live births.
- By 2030, end the epidemics of AIDS, tuberculosis, malaria and neglected tropical diseases and combat hepatitis, water-borne diseases and other communicable diseases.
- By 2030, reduce by one third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being.
- Strengthen the prevention and treatment of substance abuse, including narcotic drug abuse and harmful use of alcohol.
- By 2030 halve the number of global deaths and injuries from road traffic accidents.
- By 2030, ensure universal access to sexual and reproductive health-care services, including for family planning, information and education, and the integration of reproductive health into national strategies and programmes
- Achieve universal health coverage, including financial risk protection, access to quality
 essential health-care services and access to safe, effective, quality and affordable essential
 medicines and vaccines for all.
- By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination.

Strengthen the implementation of the WHO Framework Convention on Tobacco Control

in all countries, as appropriate.

Support the research and development of vaccines and medicines for the communicable

and noncommunicable diseases that primarily affect developing countries, provide access

to affordable essential medicines and vaccines, in accordance with the Doha Declaration

on the TRIPS Agreement and Public Health, which affirms the right of developing

countries to use to the full the provisions in the Agreement on Trade-Related Aspects of

Intellectual Property Rights regarding flexibilities to protect public health, and, in

particular, provide access to medicines for all.

· Substantially increase health financing and the recruitment, development, training and

retention of the health workforce in developing countries, especially in least developed

countries and Small Island developing States.

· Strengthen the capacity of all countries, in particular developing countries, for early

warning, risk reduction and management of national and global health risks.

The road to success is not easy. But together and inclusively, we can be part of this global

effort to address many of the health targets for the SDG3. This international conference is,

therefore, an earnest effort to realize our dream of promoting quality and safety in healthcare

towards healthy communities.

Finally, please enjoy our networking dinner and cultural show and the many exciting and

fascinating tourist destinations in and around Bangkok and Thailand in general.

Thank you very much (Khob Khun Mark)!

Prof. Dr. Rusli Bin Nordin

Co-Chair,

Monash University,

Malaysia.

xvi

Table of Contents Page No

KEYNOTE SPEECH

Dengue infections and childhood obesity: Battling epidemics that know no boundaries.

John P. Elder

PLENARY SPEECHES

Evaluating the Right to Affordable Healthcare

07

K. Buckley

Routine Dental Exams of Persons with Disabilities in the US

08

S.L. West

ORAL PRESENTATIONS

OCCUPATIONAL AND ENVIRONMENTAL HEALTH (A)

- Al 01 The Quality of Household Environment as the Risk Factor of 11 Tuberculosis and Type 2 Diabetes Mellitus Coincidence in Surabaya, Indonesia
 - M.A. Isfandiari and B.A. Saputra
- A2 02 Spatial Effect of Drinking Water Refill Depots toward Diarrhea in 12 Pagatan Kec. Kusan Hilir, Tanah Bumbu District, South Kalimantan D. Andiarsa, D.E. Setyaningtyas, S. Hidayat, I. Setianingsih,

Hamsyah and E. Haryati

A3 03	03	Climate Change Implications on Incidence of Vector Borne Diseases in Bangladesh	13
		M.A. Islam	
A4	04	Prevalence of Low Back Pain among Cargo Handlers at a Malaysian International Airport	14
		A.M. Qureshi, R.B. Nordin and K.G. Rampal	

MATERNAL HEALTH (B)

B1	05	Assessment of Knowledge on Newborn Care Practices among Postnatal Mothers in Dhaka, Bangladesh	15
		S. Ahmed, Z.N. Monia, S. Majumder and S.U. Bhuiyan	
B2	06	Factor Associated with Utilization of Modern Family Planning Methods among Married Women of THARU Community of Modhuban Municipality in Bardiya District of Nepal	16
		A. Chaudhari and K. Leena	
В3	07	Early Detection of Anemia in Women Preconception in Working Areas of Puskesmas Sidemen District Karangasem Bali Province	17
		L. Seri-Ani, I.W.A. Utami, W. Weta, I.G.A.S. Darmayani and K. Suwiyoga	
B4		Associated Factors of Preterm Birth at a Tertiary Hospital in Kelantan, Malaysia	18
		N.H. Damanhuri	
B5	09	Breastfeeding Practice among Working Mothers and Service Provision Gap at Readymade Garment Factories in Bangladesh	19
		M.L. Khan	
В6	10	Inequality Trends of Antenatal Care among Women in Indonesia 2002-2012	20
		A. Rizkianti and T. Afifah	
B7	11	Maternal Education, Antenatal Care and Infant Mortality in Assam	21
		H. Dipanjali	

В8	12	Exploring the Nexus between Intimate Partner Violence, Sense of Coherence and Antiretroviral Adherence	22
		L. Phiri	
B9	13	Voices of the Stakeholder on Misoprostol Distribution for Prevention of Postpartum Haemorrhage by Auxiliary Midwives in Chin State, Myanmar	23
		K.K. Than, K.N. Tin, T. La and H.M.T. Einda	
B10	14	Comorbidity Identification in Pregnant Women	24
		Sulastri, N. Mufidah, S. Rahmawati, E. Dewi and I.H. Rohmatulloh	
B11	15	Women's Menopausal Experiences: A Qualitative Study among Women in Sri Lanka	25
		I.M.P.S. Ilankoon, C. Elgán and K. Samarasinghe	
B12	16	Disparities in HPV Vaccination Uptake among Women with Disabilities in the US	26
		S.L. West	
B13	17	Distress among Women with Abnormal Pap Smear and Post Colposcopy in East Coast of Malaysia	27
		M. Mardiana and M.Z. Afiqah	
B14	18	Husband Support during Menopausal Phases: Exploring the Women's Voices	28
		H.I. Idiana, N.H.N. Hazlina, S. Zaharah, A.K. Azidah and M.N.M. Zarawi	
B15	19	Kangaroo Mother Care: Key Intervention to Reduce Neonatal Morbidity and Mortality at PPHI Sindh	29
		G.M. Haelpota, S.B. Boghani and Z.D. Dahar	
B16	20	Hyperthyroidism Prevalences in Women of Reproductive Age	30
		M. Mutalazimah, I. Herawati, S. Asyanti and D.L. Suswardany	
B17	21	Vitamin D Status in the First Trimester of Pregnancy in West Sumatra, Indonesia: A Cross-Sectional Study	31
		A.S. Aji, Yusrawati, S.G. Malik and N.I. Lipoeto	

J.B. Tagarino

HEALTH SERVICES MANAGEMENT (C)

C1	23	How Hospital Tengku Ampuan Rahimah Klang (HTAR) Manage Case of MERS-CoV	33
		S. Nithiya	
C2	24	Clinico-Demographic Profile of Pulmonary Tuberculosis Patients Seen at the Outpatient Department Family Medicine Clinic from March 2014 to March 2015	34
		A.C. Lacambra-Agner	
C3	25	"Doctors Ready to be Posted are Jobless on the Street" The Deployment Process and Shortage of Doctors in Tanzania	35
		N. Sirili, F. Gasto, A. Kiwara, M. Mwangu, I. Goicolea and Anna- Karin Hurtig	
C4	26	Individual, Organizational, and Technological Factors that Affect Knowledge Sharing Practices among Multidisciplinary Health Professionals: Lessons from Public Healthcare Centers in Indonesia G. Imaduddin, Ryan Walter, Samantha Hollingworth	36
C5	27	•The Pattern of Utilization of Telemedicine in Dhaka City	37
		M.T. Hasan, M.D.H. Hawlader, F. Zaman, S. Das, K. Jakaria, N.M.I. Hossain, N. Akter, B.H. Angona, R.A. Masud and S.R. Mashreky	
C6	28	Training Programs for Community Health Workers: A Scoping Review	38
		Y. Chin and J.H. Jordaan	
C7	29	Prevalence and Characteristics of Traditional Complementary and Alternative Health Care Use in Indonesia: A Nationally Representative Sample of 290,000 Adults	39
		D.L. Suswardany, V. Yulian and K. Haryadi	

C8	30	Efficiency of New Visual Biofeed Back Device – Synchronized Breathing Trainer – For Training Breathing Control	40
		D. Kotoky and G.D.V. Vardhan	
C9	31	The Effect of Wet Cupping Therapy on Fasting Blood Sugar, Renal Function Parameters, and Endothelial Function: A Single-Arm Intervention Study	41
		N.R.N. Husain, S.M. Hairon, R.M. Zain, M. Bakar, T.G. Bee and M.S. Ismail	
C10	32	Are the Hospital Setting Safe from Legionellosis in Klang Valley	42
		S.W. Tham, W. Noraini and A. Firdaus	
C11	33	Facility Delivery is the Imperative Factor for Receiving PNC: Insights from 2014 Bangladesh Demographic and Health Survey	43
		S. Tisha, S.M.R. Haque and O. Rahman	
C12	34	General Health Status in Rural Bangladesh: Assessing the Need and Feasibility of a Subjective Health Measurement Tool	44
		S.M.R. Haque, S. Tisha, M. Alam and O. Rahman	
C13	35	Completeness of Maternal Health Referral Forms at the District Level	45
		M. Amoakoh-Coleman, K. Klipstein-Grobusch, E.K. Ansah and D.K. Arhinful	
C14	36	Palatal Rugae and Lip Print Pattern Study as the Alternative Method of Mass Nature Disaster Victim Identification	46
		N. Kasuma , F.N. Fajrin, D. Elianora , A. Fitriana and F. Haria	
C15	37	Semen Analysis Parameters: Insight into Male Infertility in a Tertiary Care Hospital	47
		N. Mahboob, M. Ahmed and K. Leena	
C16	38	HIV Care Continuum in Southwest Ethiopia— Facilitators, Barriers and Solutions: A Qualitative Inquiry Followed by a Nominal Group Technique	48
		H. Gesesew, P. Ward, K. Woldemicahel and L. Mwanri	
C17	39	Parental Trust in Childhood Vaccinations: Risk, Responsibility and Alternative Rationalities	49
		P.R. Ward	

C18	40	Cultivating Health Service Delivery of Ethiopia's Primary Health Care through Leadership, Management and Governance (LMG)	50
		M.S. Abdulkader	
C19	41	Predictors of and Barriers Associated with Health Services Utilization among Persons with Disability	51
		B.J.N. Pedron	
C20	42	The Utilization and Correlates of Basic Public Health Service among Young Migrants in China	52
		Q. Yan and L. Tong	
C21	43	The Doctors' Challenge in Disruption Era	53
		T.A. Sugiyatmi and D. Chalidyanto	
C22	44	Determinants of Household Catastrophic Health Expenditure: A Global Perspective for Universal Health Coverage	54
		M. Azzani , A.C. Roslani and T.T. Su	
C23	45	Role of a Multimodal Intervention in Improving Hand Hygiene Compliance for Safe Health Care Management: Evidence from Resource Poor Settings	55
		L. Ara, M.E.H. Tamal, N.K.A. Siddiquee, S.M.N. Mowla, M.S.A. Sarker and M.N.H. Alam	
C24	46	Improved Performance at District Health Systems through Implementing Health Center Clinical and Administrative Standards: A Case of Transform Primary Health Care in Ethiopia	56
	٠.	M.D. Argaw, B.F. Desta and T. Ayehu	
C25	47	Disrespectful Maternity Care Experiences Negatively Influence Future Intention to Use Institutional Delivery in Northern Ethiopia	57
		M.W. Gebremichael, Y. Berhane, A. Worku and A.A. Medhanyie	
C26	48	HEPINAR (HELM PINTAR) "Smart Helmet": An Innovation of Safety Helmet Use Electroencephalogram Sensor and Electrocardiogram Sensor Based Fuzzy Logic to Resolve Accident Caused Sleepy and Reducing the Speed Motor Vehicles	58
		K. Priambodo, M. Fanani and I. Sulaiman	

CHILD HEALTH (D)

D1	49	Factors Motivating Village Doctors to Refer Sick Children in Public Health Facilities in Bangladesh	59
		G. Mothabbir, F. Fatema, S. Jahan and K. Leena	
D2	50	Trends and Determinants of Overweight and Obesity among Reproductive Age Women in Bangladesh: Evidence from 20 Years of National Health Surveys	60
		S.S. Yusuf and S. Alam	
D3	51	The Association between Number of Children and Neonatal Mortality: An Analysis of the 2007 Indonesian Demographic and Health Survey	61
		A.C. Wijayanti and Yovsyah	
D4	52	Effects of Poor Protein Intake and In-House Over-Crowding on Childhood Tuberculosis in a Low-Income Bangladeshi Rural Community: A Case-Control Study	62
		A. Hossain	
D5	53	Does Private Sector Contributes in Increasing Caesarean Deliveries in India?	63
		D.W. Bansod	
D6	54	Factors Influencing the Practice of Child Marriage among Girls in the Urban Slums of Bangladesh: A Cross Sectional Study	64
		S.C. Biswas, T. Hasan, S.S. Mowri, H.H. Sara and S.F. Rashid	
D7	55	Vaccine Hesitancy among Parents in Malaysia: A Single Centre Review	65
		A.F. Musa, T. Soni and R. Nordin	
D8	56	The Preferences of Indonesian Fathers for Involvement in the Birth of Their First Child: A Qualitative Exploration	66
		W.N. Ambarwati and F.B. Rahayuningsih	
D9	57	Increasing Identification of Low Birth Weight babies in High Priority Districts of Uttar Pradesh, India	67
		N. Singhal, J. Pathak, D. Chintada and J. Anthony	

D10	58	Neonatal Thyroid Stimulating Hormone Level and Its Association with Birth Weight Status	68
		A.R. Yono, M.M. Pasaribu, N. Yanti, L. Anandari , D.N. Kosen and I.S. Timan	
D11	59	Comparison of Neonatal Thyroid Stimulating Hormone Reference Value in Indonesia According to Age and Gender Differences	69
		M.T. Ramadhan, M.M. Pasaribu, N. Yanti, L. Anandari, D.N. Kosen and I.S. Timan	

68

NON COMMUNICABLE DISEASES (E)

E1	60	Established and Unestablished Cancer Risk Factors: Perceptions of The French General Population, Results of a National Survey	70
		J. Foucaud, M. Soler, C. Bauquier, M. Pannard and M. Préau	
E2	61	Research on Chronic and Rare Disease Patient Care Model and Its Prevalence in the Society along with the Impact of Patient Health While Giving Care at Home	71
		R. Arshad	
E3	62	Differential Risk Factors for Mortality in Cancer and Non-Cancer Hospitalized Patients with Community-Associated <i>Clostridium difficile</i> Infection: A Retrospective Cohort Study	72
	٠.	J. Ho, R.Z.W. Dai, L. Zhang, X.S. Wang, S.C. Ng, W.K.K. Wu and S.H. Wong	
E4	63	Plasma Concentrations of Zonulin are Elevated in Obese Men with Fatty Liver Disease	73
		Hae-Jin Ko	
E5	64	Neurorestoration Using a Guide of the Intervention Description and Replication (TIDIeR) on Functional Ability of Post Ischemic Stroke Patients	74
		U.B. Rahayu, S. Wibowo and I. Setyopranoto	
E6	65	Quality of Life of People with Cancer Treated with Specific Immunotherapy: Which Tools and Results in the Context of Disruptive Treatment? A Systematic Review	75

E7	66	Does Self Efficacy to Engage Physical Activity and Sedentary Activity Relate to BMI in Diabetic Elderly? Q. Rachmah, S.W. Setyaningtyas, M.A. Rifqi, D. Indriani, T.S. Nindya, H. Megatsari, T. Mahmudiono and W. Kriengsinyos	76
		CARDIOVASCULAR DISEASE (CVD) (F)	
F1	67	The Impact of Hospital Organization Factors and Family Support on Improving the Recovery of Cardiovascular Patient Based on HAPA (Health Action Process Approach)	77
		A.F.N. Azizah, S. Supriyanto and S. Martini	
F2	68	Family Support and Quality of Life in Congestive Heart Failure Patient in Community	78
		D. Hudiyawati, A.W. Jatmiko and E. Sulistyo	
F3	69	Assessment of Cardiovascular Disease Risks (ST Segment Elevation/Depression Myocardial Ischemia) in Women Exposed to Biomass Fuels in Rural Village of Nepal	79
		R. Kawan	
48 3 5 5 19		•	
		• : · · DENTAL HEALTH (G)	
	MAKATING PLACES		
G1	70	The Increasing of Dental and Oral Health Knowledge through Dental Educational Robotic Media towards The Students of Al- Baitul Amien and Bintoro 3 Primary School District Patrang Jember Regency	80
		F. Lailiyah, Sulistiyani, Kiswaluyo, E.Y.R. Widi and R. Budirahardjo	
G2	71	The Clinical Pathway in the Oral and Maksillofacial Surgery's Services as a Quality Management Tool, in RSUD Dr. Soetomo Hospital, Surabaya, Indonesia	81

N.D.S. Ismawati and S. Haksama

G3 72 The Number of Missing Permanent Molar Teeth Based on 82 Characteristics of Respondent on Lubuk Buaya Public Health Center

Murniwati, Susi, N. Kasuma and N. Rawinda

ADOLESCENT, YOUNG ADULTS AND ELDERLY HEALTH (H)

H1	73	Double Burden of Malnutrition among Adolescent Students of East Sikkim	83
		T. Dolkar, V.K. Mehta and J.T. Wangdi	
H2	74	Adolescents' Perception and the Association of Level of Knowledge with Attitude in Javanese Culture	84
		A. Muhlisin, A. Pratiwi and D. Windriawati	
Н3	75	Cinema in the Bus (CiBus): A Pilot Project to Increase Knowledge and Self-Efficacy among Adolescents Regarding Sexual and Reproductive Health	85
		N.P.A. Harjana, N.Y.K. Surya and I.M.A. Wirawan	
H4	76	Nourishing dreams; How Adolescents are Shaping Ideas for Their Own Future in Bangladesh?	86
		Ahmed Nizam, Brownia Farzana, Islam Rafiqul, Leena Khadija, Salwa Zeena	
H5	77	Quality of Life and Sexual Risk Behaviour among Adolescent	87
	., .	G. Vionalita	
Н6	78	Assessment of Depression in Geriatric Staying in a Geriatric Home Care in Klang, Malaysia	88
		M. Qamar, N.Z. Afiqah, M.A. Hammad, F.A. Shaikh and S. Ahmad	
H7	79	Subjective Economic Situation Is Strongly Associated with Low Back Pain among Older People in Japan: The JAGES Cross- Sectional Study	89
		T. Ikeda, K. Sugiyama, J. Aida, T. Tsuboya, N. Watabiki, K. Kondo and K. Osaka	

H8	80	Glycemic Control and Self-Efficacy in Physical Activity of Diabetes Elderly at Jagir Subdistrict, Surabaya, Indonesia	90
		S.W. Setyaningtyas	
Н9	81	Comprehensive Physician Communication Patients	91
		A. Toni	

		NUTRITION (J)	
J1	82	Contextual Determinants Influencing the Utilization of Nutritional Program among Adult Patients with HIV in Ethiopia: A Mixed Methods Study	92
J2	83	F.H. Tesfay, S. Javanparast, A. Ziersch, L. Mwanri and A. Mulugeta Factor Associated with Severe Acute Malnutrition (SAM) among <5 Years of Children in Tharu Community of Kailali District, Nepal	93
Ј3	84	R. Pokhrel, D.K. Mitra and K. Leena Is Serum Retinol a Misleading Biomarker for Assessment of Vitamin A Adequacy in pregnant Women?	94
J4		M.S.K. Rabindrakumar, V.P. Wickramasinghe and T. Thoradeniya Women Counseling towards Mothers of Malnourished Children as Effective Way Promote Nutritional Conscious Families Program	95
J5	86	A. Putri R, A. Dwi M and T. Mahmudiono Socioeconomic Differentials in Minimum Dietary Diversity among Young Children in Southeast Asia: Evidence from Demographic and Health Surveys	96
J6	87	C.M. Harvey, M.L. Newell and S.S. Padmadas	97
J7	88	W. Yunieswati, S.A. Marliyati and B. Setiawan Neonatal Thyroid Stimulating Hormone Status Based on Maternal Adequate Iodized Salt Intake Status in Indonesia	98
		R.A. Trianto , M.M. Pasaribu, N. Yanti, L. Anandaři, D.N. Kosen	

J8 Breastfeeding Pattern Influences the Occurrence of Early Childhood 99
Caries of Children under Five Years Old: A Study Case in
Bukittinggi, Indonesia

 $Susi^{I},\ Murniwati,\ N.\ Kasuma,\ R.\ Khairani\ and\ Minarn$

SCHOOL AND STUDENT HEALTH (K)

K1	90	The Effect of Serum Cortisol, Systolic and Diastolic Blood Pressure, Heart Rate and Respiration Rate on Exam Anxiety among Nursing Students	100
		F. Hamzah, K.C. Mat and V. Bhagat	
K2	91	Contraception Supply Chain Challenges: A Review of Evidence from Low- And Middle-Income Countries	101
		M. Bakali, M. Ali, M. Farron and V. Renee	
K3	92	Health Expenditures Experienced by Pregnant Women in India: Evidence from National Data	102
		S. Sriram	
K4	93	Prevalence of Obesity among Taylor's University Medical Students	103
	.,	J.A. Andoy-Galvan	
K5	94	Drinking Water and Toilet Facilities: Student's Perceptions and Barriers in Selected Schools of Dhaka, Bangladesh	104
		G.S.M. Pritom	
K6	95	Quality of Life of Local and International Medical Students at MAHSA University	105
		Y.C. See, Y.Y. Ho, C. Govindaraja and K.K.M. Aung	
K7	96	Barriers to the Successful Implementation of the Integrated School Health Programme in Durban Metropolises South Africa: Policy Makers and Stakeholders' Perspective	106

K8	97	Assessing Parental Acceptance towards Using Digital Game as an Educational Tool	107
		N. Saidin, S.H.Ab Hamid and R.A. Zaki	
К9	98	Intellectual Capacity and Sexual Violence in Children Visiting Integrated Crisis Center of Ciptomangunkusumo Hospital, Indonesia	108
		C.S. Cherry and K. Fransiska	

HEALTH PROMOTION AND EDUCATION (L)

L1	99	Undetected Diabetes in Relation to Hypertension and Anthropometry; A Movement towards Preventive India	109
		B. Upreti	
L2	100	Supporting Community through Health Education Using Jigsaw and Think-Pair-Share Methods	110
		E. Dewi , F.B. Rahayuningsih , D.K.A. Putri, E. Yuniawati and S. Suwandi	
L3		A Holistic Tradition of British Hygiene and Medicine, Reflected in E. W. Lane's Medical Theorisation of Hygiene	111
		M. Bae	
L4	102	To Evaluate the Role of Print Media in Gaining Traction and Promoting Community Engagement in Organ Donation by Regional Organ & Tissue Transplant Organization (ROTTO), Post Graduate Institute of Medical Education & Research (PGIMER), Chandigarh	112
		A.K. Gupta, V. Koushal and S.D. Madra	
L5	103	Building Local Partnerships to Impact Access to Health and Civic Amenities in Vulnerable Populations: A Community Intervention Study	113
		S. Mehnaz, A.J. Abedi, S.F. Fazli, Z. Khan and M.A. Ansari	

L6 104 The Need of Spiral Learning in Biostatistic : Implications for 114 Curriculum Design

G.S. Prihanti and M. Fauzan

COMMUNICABLE DISEASES (M)

M1	105	The Role of Socio-Cultural and Environmental Risk Factors on the Incidence of Tuberculosis Infection	115
		F.A Siregar and T. Makmur	
M2	106	Validation of Questionnaires on Leptospirosis Knowledge, Attitude and Practice among Urban and Rural Communities in Malaysia	116
		W.M. Zahiruddin, W.N. Arifin, S. Mohd-Nazri, S. Sukeri, R.A. Hamat, I. Zawaha, R.A. Bakar, O. Malina, T.Z.M.T. Jamaludin, A. Pathman, A.R. Mas-Harithulfadhli-Agus, I. Norazlin, B.S. Suhailah, S.N.S. Saudi, N.M. Abdullah, N. Nozmi, A.W. Zainuddin and D. Aziah	
M3	107	Acceptance of Seasonal Influenza Vaccination among Nurses in a Hong Kong Public Hospital with Health Belief Model	117
		L. Shuk-Hang and D. Chao	
M4	108	The Negative Value of Some Socio-cultural Traits Affecting Transmission and Development of Pulmonary Tuberculosis Among OPD Clients at the Eastern Visayas Regional Medical Center (EVRMC), Tacloban City, Leyte, Philippines	118
	•	I.P. Balonga	
M5	109	Association between Household Socioeconomic and Ecological Factors and Aedes Mosquito Abundance in Dhaka, Bangladesh	119
		K. Bashar, K. Leena and G.U. Ahsan	
M6	110	Knowledge, Attitude and Preventive Practices on Leptospirosis among Rural Communities in Selangor, Malaysia	120
		N. Noramira, S. Suhailah, S. Surianti, S.M. Nazri, W.M. Zahiruddin, I. Zawaha, W.M.W.N. Arifin, I. Norazlin, S.S.N. Sakinah, A.N.Munirah, A.W. Zainudin, T.J.T.Z. Maztura, A.R. Hejar, M.S. Norbaya, B.D. Aziah, O. Malina and A.H.Rukman	

111	Comparative Genomic Analysis of Uropathogenic Escherichia coli	121
	isolated from Dhaka, Bangladesh	
	T. Tabassum, N. Khan, M. Sarker, A. Sadique, A. Rahman, A. Khaleque, G.U Ahsan and M. Hossain	
	111	T. Tabassum, N. Khan, M. Sarker, A. Sadique, A. Rahman, A.

TOBBACO USE (N)

N1	112	The View of Tobacco Consumption in Indonesia: Using Indonesia Family Life Survey 5 Data	122
		A.T. Purnamasari	
N2	113	Prevalence and Patterns of Tobacco Product Use in Japan: First-Year Results of a Repeated Cross-Sectional Survey	123
		P. Langer, L. Prieto, D. Skiada, M. Dobrynina, A. Van der Plas, E. Afolalu, Z. Sponsiello, G. Baker, R. Weitkunat and F. Luedicke	
N3	114	The Prevalence of Positive Smoker Identity and its Associated Factors	124
		M.H. Ahmad, A. Ab Rahman, K.I. Musa, F.M. Zin, N.A. Hassan, M. Omar, R. Hasan, R.M. Zain and M.I. Ibrahim	
N4	115	Testing the Combination of Behaviour Change Techniques for Smoking Cessation: A Factorial Randomised Trial in Thailand	125
		P. Kingkaew, L. Glidewell, R Walwyn and J.C. Wyatt	
N5	116	Effectiveness of Tobacco Control Measures at Public and Private University Campuses in Bangladesh	126
		M.G.U. Ahsan and K. Leena	
N6	117	Prevalence and Patterns of Tobacco Consumption among High-Risk Population of Bangladesh	128
		M. Jahan, M. Hasan, M. Rahman, K. Leena, M.N. Uddin and G.U. Ahsan	
N7	118	Cross-Sectional Study on Tobacco Use among Adult Population in Ajman UAE	129
		J. Sreedharan, J. Muttappallymyalil, R.B. Shaikh, S. Al Sharbatti and S. Sherman	

N8	119	JFC	(Jember	Fashion	Carnaval)	for	Jember	City	Free	from	130
		Nega	ative Effec	F-							
		B. Al	bdillah								

PHARMACY Q) Q1 120 Effect of Morinda citrifolia Extract on Cytokine IL - 4 and IL - 10 131 in White Rats Wistar Strain Induced Pirazinamide, Levofloxacin and Etambutol T.D.N. Subchi 121 Treatment Outcomes and Their Association with Type of Q2 132 Resistance among Drug Resistant Tuberculosis Patients during 2014-2015 in Punjab, Pakistan: A Retrospective Cohort Analysis S. A. Khan Q3 122 Neonatal Thyroid Stimulating Hormone Level and Its Association 133 with Prematurity Status U.K. Rizqi, M.M. Pasaribu, N. Yanti, L. Anandari, D.N. Kose and I.S. Timan

MENTAL HEALTH (R) Validity and Reliability Test of Medication Adherence Rating Scale R1 134 for Psychosis (MARS) Instrument Indonesian Version A. Kasmianto R2 124 Health Status, Psychosocial Profile and Life Satisfaction of 135 Substance Abusers: An Insight within Inmates of Inabah Programme P.L. Lua, A.N.N. Afiqah, M.A. Manam, H. Azmi, M. Mokhairi and A.J. Julaily R3 125 Home Based Caring of Mentally Ill Persons; Coping Strategies and 136 Issues Faced by Families J.M.S.N. Jayasooriya

R4	126	Help-Seeking and Access to Services for Mental Health Problems among Adolescents in Selangor, Malaysia	137
		R. Khairudin, N.D.N. Farid and M. Ismail	
R5	127	Severity and Sources of Perceived Stress among Pharmacy Undergraduate Students in Malaysia	138
		S. Ahmad, N.I.H. Bashri, Y.Z. Wong, C.Q. Chow, F.A. Shaikh and M. Qamar	
R6	128	Factors Analysis Affecting Antenatal Care Drop Out in Primary Health Care	139
		G.S. Prihanti, Y. Baidowi, S. Handayani, M.F. Febriady, W.W.P.M. Rohmasari, S.F. Amaliya and G.R. Novianti	
R7	129	Perinatal Anxiety Screening Scale (PASS): A Valid Tool to Detect Anxiety among Pregnant Women	140
		M.N. Priyadarshanie, M.D.I.A. Waas, D.M.S. Fernando, B.C.V. Senaratna, C.S.E.Goonewardena and A. Balasuriya	
R8	130	The Associations between Discrimination and Self-Report Health in Chinese Migrant Workers: Moderated by Social Integration and Perceived Stress	141
		L. Tong, Q. Yan and I. Kawachi	
R9	131	Reduced Psychosocial Risk in 31 Austrian Companies	142
		R. Polacsek-Ernst	
R10	132	Internalizing and Externalizing Behavioral Problems among Patients with Borderline Personality Disorder: Mediating Role of Adaptive Family Functioning	143
		S. Khan and A. Kamal	
R11	133	Psychological Distress on Diabetes Patient Experience Related to Lifestyle Changes	144
		A. Pratiwi, A. Muhlisin, Y.I. Permana and F. Nursita	
R12	134	Subnational Inequality of Caesarean Section in Urban-Rural Area of Indonesia	145
		Suparmi, N. Kusumawardhani and K.A. Susiloretni	

R13	135	Are Women with Depression More Prone to the Development of Other Chronic Diseases? A Longitudinal Study among Married Women in Rural Bangladesh	146
		S. Aziz	
R14	136	A Study on the Knowledge and Attitude Regarding the Internet Blue Whale Game among Adolescent School Children in a Private School in a Rural Area of Kerala, South India	147
		V.T.K. Menon and V. Joshy	
R15	137	Effect of Yoga on the Individuals with Alcohol Use Disorder	148
		S. Tambare and T. Varade	
R16	138	I'm Fine' - A Short-Film on Mental Illness Stigma	149
		A.S. Reddy	

POSTER PRESENTATIONS (P)						
P1	139	Low Back Pain and Disability Status in Rural Housewives	153			
		I.N. Noor and M.A. Rahman				
P2	140	The Development and Validation of Healthy Living Pattern Mobile Application for Adolescent	154			
	·	E. Prafiantini, F. Witjaksono, A.J. Ananda, R. Anggraini, K. Fauzia, M. Khoirunnisa, O.L. Sari, T.J. Manik, L. Patriantoro, D. Saptarini, N. Sutarina and M. Mansyur				
P3	141	Discriminatory Attitude towards HIV/AIDS among Public Health Care Professional in Urban Malaysia: A Descriptive Study	155			
		R.Z. Saguntala and L.P. Wong				
P4	142	Nutritional Care in Hospital Discharge Plan: A Districted Hospital Experience	156			
		Yu-Ru Lin, Ya-Wen Fan, Yi-Ling Yang, Hsiao-Chun Lin and Chung-Mei Ouyang				

		R.V. Suryadinata, B. Wirjatmadi, M. Adriani and S. Sumarmi	
P14	152	Effect of Vitamin D Status Associated with Age and Obesity as Risk Factors of Vitamin D Deficiency	167
		J. Shimasawa, M.Osawa, M. Ueno, Y. Shimizu and Y. Kubo	
P13	151	Post-Discharge Support for Persons with Mental Illness: A Nursing Research Review	166
		W.M.W.N. Arifin, Z.I. Uzair, S.M. Nazri and I.M. Ismail	
P12	150	Low Back Pain among Nurses in Public Hospitals: A Validation Study of BACKS Tool	165
	٠.	M.K. Park, H. Kim, S.A. Kang, J.H. Choi , D.I. Lee, S.H. Park and H.S. Yu	
P11	149	Effect of Nematode Drived Peptide on Activation of Collagen Synthesis and Skin Wound Healing	164
		S. Bhuyan •	
P10	148	Health Care Financing: A Case for Health Insurance	163
		A.K.D. Nadeeshani, P.M. Mendis, I.S Almeida and N. Sritharan	
P9	147	Factors which Determines the Severity of Fluid Leakage in Dengue Hemorrhagic Fever Patients: An Analysis Done in a Medical Ward in Sri Lanka	162
		D.Y. Lestari and N.R. Alifany	
P8	146	Effect of Extract Noni Fruit (Morinda citrifolia L.) on Liver Damage Histopathology of White Male Rats	161
		M.G.U. Ahsan and K. Leena	
P7	145	Effectiveness of Tobacco Control Measures at Public and Private University Campuses in Bangladesh	159
		M.S. Abdulkader	
P6	144	Cultivating Health Service Delivery of Ethiopia's Primary Health Care through Leadership, Management and Governance (LMG)	158
		K.P. Putera , G. Pramudani and A.D.Y. Rahayu	
P5	143	Effectiveness Test of Decreasing Hexavalent Chromium in Batik Liquid Waste Using Chitosan of Shrimp and Crab Shell at Laweyan Village, Surakarta	157

P1	5	153	Health-Related Quality of Life And Mental Health Outcomes of Drug Dependents Undergoing Inabah Programme in Malaysia	168
			P.L. Lua, A.N.N. Afiqah, M.A. Manam, H. Azmi, M. Mokhairi and A.J. Julaily	
P1	6	154	Can Inabah Drug Rehabilitation Programme Improve Religiosity and Clinical Symptom Profiles?	169
			P.L. Lua, A.N.N. Afiqah, M.A. Manam, H. Azmi, M. Mokhairi and A.J. Julaily	
P1	7	155	Disinfection and Sterilization of Medical Equipments: A Multimodal Capacity Building Initiative for Ensuring Patient Safety	170
			M.E.H. Tama, N.K.A. Siddiquee, S.M.N. Mowla, M.N.H. Alam, M.S.A. Sarker and L. Ara	
P1	8	156	Recognizing People Affected by Leprosy in Health Community by Reducing Sigma Though Right-Based Counseling Model	171
			M.M. Lusli	
P1	9	157	Analysis of Perception Differences of Patient Satisfaction with Catastrophic Disease on Hospital Service Before and After BPJS	172
			M.Wartiningsih, S. Supriyanto, D. Chalidyanto and H.T. Silitonga	
P2	0	158	The Influence of Quality of Health Service to Patient Satisfaction Level of Inpatient in Muna Hospital Based on SERVQUAL Dimension	173
			F.E.B. Setyawan, S. Supriyanto, F. Tunjungsari and W.O.N. Hanifaty	
P2	1	159•	Effect of <i>Morinda citrifolia</i> Extract on Cytokine IL - 4 and IL - 10 in White Rats Wistar Strain Induced Pirazinamide, Levofloxacin and Etambutol	174
			T.D.N. Subchi	
P2:	2	160	The Invisible Population –Infectious Diseases and Rural Livelihood in Developing Countries	175
			F.A. Mphande-Nyasulu	
P2:	3	161	Implementation of "Gerakan Desa/Kelurahan Sehat Dan Cerdas (GDSC)" Program to Accelerate Village Development	176
			A.N. Chabibah	

P	24	162	Sex Education in Digital Age: Increasing Self Awareness among Teenagers through a Collaborative Approach	177
			N.Y.K. Surya, N.P.A. Harjana and I.M.A. Wirawan	
P	25	163	Asthma Pharmaceutical Care Service to Promote Patients' Safety: Self-Assessment from the Indonesian Pharmacists	178
			A. Widayati and P.D. Christasani	
P	26	164	Enhance Cleanliness, Excel in Healthcare: A Capacity Building Initiative in Bangladesh	179
			F. Hossain, M.E.H. Tamal, N.K.A. Siddiquee, S.M.N. Mowla, M. N.H. Alam, M.S.A. Sarker, L. Ara	
P	27	165	Breastfeeding among Working Mothers at Taylor's University, Malaysia	180
			J.A. Andoy-Galvan	
P	28	166	Public Health Midwives' Health Promotion Activities towards Abnormal Vaginal Discharge	181
			I.M.P.S. Ilankoon., C.S.E. Goonewardena, R.C. Fernandopulle P.P.R. Perera	
P	29	167	Knowledge, Attitudes and Practices on Falls Injury among Mothers of Children 1-5 Years of Age at a Selected Medical Officer of Area of Sri Lanka	182
			H.C. Mallawatantri and S. Maduwage	
P.	30	168*	Knowledge, Attitude& Practice About Dengue Fever among Students of Taylor's University	183
			J.A. Andoy-Galvan	
P.	31	169	The Relationship between Menopausal Status and Central Obesity: Study on Rural Women in Banjaroyo Village, Yogyakarta, Indonesia	184
			P.D. Christasani	
P.	32	170	Effectiveness of the Diabetes Conversation Map Education Tools on Diabetes-Related Parameters of Outpatients with Diabetes	185
			Hsiao-Chun Lin, Chung-Mei Ouyang, Yi-Ting Chan, Yuh-Lin Liu,	

P33	171	Improving Quality of Life of Cervical Cancer Patients in an Apex Hospital, India: An Innovative Approach	186
		A. Singh, V. Suri, S. Ghoshal, S. Kaur and A. Singh	
P34	172	Visual Attention of Functional Brain Networks Using EEG in Young Adults	187
		Ming-Chang Chiang	
P35	173	Child Nutritional Status and Perinatal Depression Symptom in Indonesia	188
		A.Y.M. R. Siregar	
P36	174	Assessing the Impact of Iron Consumption on Anemia among Pregnant Women Visiting to Health Facilities of Pphi Sindh	189
		S. Bakhtawar, G. Mustafa and Z. Dahar	
P37	175	Prevalence and Patterns of Tobacco Consumption among High-Risk Population of Bangladesh	190
		M. Jahan, M. Hasan, M. Rahman, K. Leena, M.N. Uddin and G.U. Ahsan	
P38	176	The Depression Conundrum and the Advantages of Uncertainty	191
		J. Celie, T. Loeys, M. Desmet and P. Verhaeghe	

VIRTUAL PRESENTATIONS

E. Talib

177 Disrespect and Abuse (D&A) among Women Undergoing 195 Deliveries in District Level Hospital of Western Uttar Pradesh, India

178 Risk Perception towards Tobacco Use in Pregnancy among Married 196
 Men and Women of Rural Areas in Myanmar

K.L.Show, A.P. Phyo, S. Saw, K.K. Zaw, T.C. Tin, N.A. Tun and K.T.Wai

179	Maternal Obesity and Pregnancy-related Death	197
	K.L. Goh	
180	Serology Detection of <i>Treponema pallidum</i> in Cerebrospinal Fluid with Intracranial Infection	198
	N. Yanti, M.M. Pasaribu, L. Anandari, D.N. Kosen, S. Immanuel, T. Loho, Yusra, D. Imran and I.S. Timan	
181	An Age Matched Case-Control Study of Socioeconomic Factors and Risk Behaviors Associated with Gestational Diabetes Mellitus in Chinese Women	199
	X.M. Carroll, X.H. Liang, W.Y. Zhang, W.J. Zhang and S. Leeper-Woodford	
182	The Incidence and Management of Patient Violence against US Medical Professionals	200
	A.C. Oguagha; J. Chen and Q.X. Yang	
183	The Indoor and Outdoor Radon Exposure Associated Risk in Lung Cancer Disease in Rajamangala University of Technology Isan, Khon Kaen Campus, Thailand	201
	V. Atyotha and J. Somtua	
184	Janger Dance in Preventing Rabies Cases: Increasing the Scale and Potential Adoption of Health Promotion Interventions into Daily Practice	202
	S. Budayanti, K.R. Rahayu, M. Subagiarta and N.K.S. Yanti	
	Improvement Strategies of Job Performance: A Perspective on Nursing Profession in Vietnam	203
186	P.V. Nguyen, L.T.X. Nguyen and N.H.T. Nguyen Clinical Presentation and Challenges in Management of Ludwigs Angina	204
	L.M. Kaluvu	
187	ABC Strategy: How University Students Perception of ABC Strategy Influences Uptake of Reproductive Health Programs	205
	M.N. Wanjau, L.N. Kathuri-Ogola and L.W. Maina	

	Affects Job Performance of the Nurse	
	P.V. Nguyen and T.N.B. Ton	
189	Knowledge, Attitude and Practices of Health Care Personnel and Possible Barriers towards Biomedical Waste Management: A cross- Sectional Study in Karachi	207
	B. Sehrish	
190	Reasons for Non-compliance among Probable Diabetic Retinopathy Patients Referred from a Diabetes Clinic to a Tertiary Hospital	208
	Z. Khair, Y. Jahan, K.A.T.M.E. Huq, M.M. Rahman and M. Moriyama	
191	An Investigation on Healthcare Receivers' Acceptance of Telecardiology in Malaysia	209
	Kee-Jiar Yeo, R.H.A. Al-Ashwal and Shih-Hui Lee	
192	Knowledge, Attitudes and Practice regarding Contraceptive Methods among the Female Garment Factory Workers in Katunayake Free Trade Zone	210
	P.D.A.C. Perera, A.H.I. Priyadarshani, E.G.B. Sachinee, K.W.C. Nuwanthika, O.G.T.C. Nisanka, R.L.C. Silva, B.M.R. Fernandopulle and M.N. Priyadarshani	
193	Environmental Health Food Hygiene Inspection Violations Associated with UK Foodservice Small Medium Enterprises (SMEs): Implications for Public Health	211
	O.T. Irawo, A.S. Tatham, D. Clayton and E.C. Redmond	
194	Association Between Fatigue and Ergonomic Pain in the Danish Fishing Industry	212
	S. H. Busingye and G. Berg-Beckhoff	
195	Coding Error and Coder Skills in Implementation of International Classification of Disease (ICD) Case-Mix System in Malaysia	213
	S. Anian and N. Ismail	

188 The Internal and External Factor of Workplace Environment 206

196	The Influence of Lead-Acid Battery Recycling in Drinking Water, Soil and Blood Lead Levels	214
	G.B. Aquino, R.P. Gonzaga, M.M. Basila, N.E. Florendo, B.C. Magsino, C.J. Pekson and B.B. Rengconda	
197	Revisiting the Terms of the Patriarchal Bargain: Exploring the Gender Politics of Household Money Management in Rural Nepal	215
	L. Gram, J. Skordis-Worrall, J. Mannell, G. Shannon, D. Manandhar, N. Saville and J. Morrison	
198	Mental Stress of Female Sex Workers	216
	T.A. Haque, S. Hamid, M.U. Ahmed, U.K. Alam and I. Hossain	
199	Respiratory Health Problem among Brass Utensils Factory Workers	217
	N. Chowdhury, S. Rahman, A. Sharmin, M.H. Khan and I. Hossain	
200	Gender Disparity & Psychosocial Status of Elderly People in Rural Area of Bangladesh	218
	S. Rabeta and B. Afroza	
201	Predictors of Breastfeeding Self-Efficacy among Expectant Mothers	219
	S.B.A. Hamid and N.M. Zaidi	



P14 [152]

EFFECT OF VITAMIN D STATUS ASSOCIATED WITH AGE AND OBESITY AS RISK FACTORS OF VITAMIN D DEFICIENCY

R.V. Suryadinata^{1,2}, B. Wirjatmadi³, M.Adriani³ and S. Sumarmi³

¹Doctoral Candidate, Faculty of Public Health, Airlangga University, Surabaya, Indonesia ²Departement of Public Health, Faculty of Medicine, Surabaya University (UBAYA), Indonesia

³Faculty of Public Health, Airlangga University, Indonesia

ABSTRACT

Vitamin D status can provide general information of vitamin D levels at certain population in the community. Aging and weight gain were believed to increase the risk of vitamin D deficiency. Thus, aim of this study is to determine the effect of aging and obesity to the vitamin D status. Case Control study was performed by giving questionaire about vitamin D status to 72 people including adult and the elderly at Puskemas Taman, Sidoarjo, East Java. Samples were selected using the purposive sampling method. Validity and reliability of the questioner has been tested prior the experiment. Obese and non-obese groups were divided based on Body Mass Index of each individual. The results showed that aging lowering vitamin D status in obeseand non-obese groups, Chi-square p = 0.001 and p = 0.000, respectively. Further, obesity decreased the vitamin D status in the adult group (Chi-square, p = 0.000) and geriatric group (Chi-square, p = 0.026). Conclusions, aging and obesity increase the risk of vitamin D deficiency. Further, obese elderly group might have a high risk of low vitamin D status.

Keywords: Obesity, adult, geriatric, Vitamin D





The International Institute of Knowledge Management No: 531/18, Kotte Road, Pitakotte, 10100, Sri Lanka. Tel:+94 113 098 521 Email:info@tiikm.com

Web: www.tiikm.com

ISBN 978-955-3605-05-4

