

1st Public Health International Conference (PHICo 2016)

Advances in Health Sciences Research Volume 1

Medan, Indonesia
1 – 2 December 2016

Editors:

**Syed Mohamed Aljunid
Supasit Pannarunothai
Aniza Ismail**

**Mahyuddin K. M. Nasution
Destanul Aulia**

ISBN: 978-1-5108-5827-5

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2017) by Atlantis Press
All rights reserved.
<http://www.atlantis-press.com/php/pub.php?publication=phico-16>

Printed by Curran Associates, Inc. (2018)

For permission requests, please contact the publisher:

Atlantis Press
Amsterdam / Paris

Email: contact@atlantis-press.com

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

SESSION: SOCIAL PHARMACOLOGY

TURMERIC CAN PREVENT COCHLEAR DAMAGE DUE TO OTOTOXIC DRUGS	1
<i>Tengku S. H. Haryuna, Sari Anggraini</i>	

SESSION: REPRODUCTIVE HEALTH

CORRELATION BETWEEN 25-HYDROXYVITAMIN D AND ESTRADIOL SERUM LEVEL IN DETERMINING BONE DENSITY IN MENOPAUSAL WOMEN	4
<i>Muhammad Rusda</i>	
AN UNDERSTANDING DEMOGRAPHIC BONUS AND ITS IMPLICATION AMONG TEENAGERS IN DELI SERDANG DISTRICT	11
<i>Heru Santosa, Erna Mutiara, Juanita Juanita</i>	
THE RELATION OF PEER GROUP WITH THE SELF-CONCEPT OF TEENAGERS ON SEXUAL BEHAVIOR	16
<i>Delfriana Ayu A., Dinda Aljarina, Prodalima Sinulingga</i>	
ANALYSIS OF ELDERLY WOMEN'S NEEDS IN SLUM AREA OF MEDAN CITY	22
<i>Asfriyati Asfriyati, Lita Sri Andayani</i>	
HISTOPATHOLOGIC EVALUATION OF THE PHYLLODES TUMOR	28
<i>Lokot Donna Lubis</i>	
SOCIODEMOGRAPHIC AND MALE'S INVOLVEMENT IN REPRODUCTIVE HEALTH	34
<i>Siti Novianti, Arie G. Rian, Iseu Siti Aisyah</i>	
ASSOCIATION OF MULTI-DRUG RESISTANCE-1 (MDR1) GENE POLYMORPHISM WITH LEUKOCYTOPENIA IN BREAST CANCER PATIENTS TREATED WITH CHEMOTHERAPY	38
<i>Siti Syarifah, Tri Widyawati, Kamal B. Siregar, Yahwardiah Siregar</i>	

SESSION: PUBLIC HEALTH NUTRITION

BODY MASS INDEX AND TRIGLYCERIDE LEVELS OF THE STUDENTS OF FACULTY OF MEDICINE UNIVERSITY OF NORTH SUMATRA 2016	43
<i>Nenni Dwi Aprianti Lubis, Mutiara Indah Sari</i>	
THE INCREASE IN LENGTH OF INFANTS WHO WERE GIVEN THE COMPLEMENTARY FEEDING MIXED OF RIPE AWAK BANANAS FLOUR AND SOYBEAN SPROUTS	46
<i>Jumirah Jumirah, Albiner Siagian, Zulhaida Lubis, Posman Sibuea</i>	
THE RELATIONSHIP BETWEEN PERSONAL HYGIENE AND HELMINTHES DISEASE ON PRIMARY SCHOOL CHILDREN IN TERMINAL DISPOSAL WASTE AREA	52
<i>Evawany Aritonang, Albiner Siagian</i>	
CHRONIC ENERGY MALNUTRITION AND ANEMIA IN PREGNANT WOMEN IN MEDAN	56
<i>Zulhaida Lubis, Jumirah Jumirah, Maya Fitria</i>	
ASSOCIATION VITAMIN D RECEPTOR (TAQI) GENE POLYMORPHISM WITH ANTHROPOMETRIC PARAMETERS AND BLOOD PRESSURE OF COLLEGE STUDENTS IN FACULTY OF MEDICINE, UNIVERSITY OF SUMATERA UTARA	60
<i>Mutiara Indah Sari</i>	
CORRELATION BETWEEN THE VITAMIN D INTAKE WITH CLINICAL SYMPTOMS OF PATIENTS PULMONARY TUBERCULOSIS	65
<i>Netti Suharti, Teda Faadhila, Delmi Sulastr</i>	
STUNTING AND ANEMIA IN INFANTS AMONG BREASTFEEDING MOTHERS IN BINJAI CITY	70
<i>Etti Sudaryati, Ernawati Nasution, Ida Yustina</i>	
RISK FACTORS FOR SEVERE MALNUTRITION IN UNDER FIVE CHILDREN IN MEDAN CITY	76
<i>Erna Mutiara, Rasmaliah</i>	
NECK CIRCUMFERENCE AS USEFUL MARKER OF OBESITY AND ITS CORRELATION WITH TRIGLYCERIDE LEVELS	83
<i>Mutiara Indah Sari, Zaimah Z Tala, Dewi Indah Sari</i>	

THE RELATIONSHIP BETWEEN SCHOOL'S ROLE IN MONITORING NUTRITIONAL STATUS WITH FOOD HABIT AND PHYSICAL ACTIVITY OF PRIMARY SCHOOL STUDENTS IN MEDAN.....	87
<i>Fitri Ardiani, Rusmalawaty Rusmalawaty</i>	
DOMINANT FACTOR ANALYSIS OF HYPERTENSION IN PRE-ELDERLY MEN AND WOMEN IN PUSKESMAS RANGKAPANJAYA, DEPOK CITY, 2016	91
<i>Febrina Elisabeth, Defry Lesmana, Aulia Destanul</i>	
STATUS OF MOTHER'S BONE DENSITY (0-6 MONTHS) BASED ON PATTERN OF BREASTFEEDING	97
<i>Ernawati Nasution, Etti Sudaryati, Evi Naria</i>	
THE FOOD AND NUTRITION SURVEILLANCE SYSTEM USING INDICATOR AND ANALYSIS OF COMPOSITE	101
<i>Fickry Faisya, Anita Rahmiwati, Ari Wedhasmara</i>	
SUPPLEMENTATION OF VITAMIN D IN PATIENTS WITH PULMONARY TUBERCULOSIS ETHNIC BATAK	107
<i>Nita Andriani Lubis, Melviana Melviana, Bintang Y. M. Sinaga, Yahwardiah Siregar</i>	

SESSION: OCCUPATIONAL HEALTH AND SAFETY

HAZARD IDENTIFICATION AND RISK OF WORK ASSESSMENT ON STREET SWEEPER IN MEDAN CITY	112
<i>Umi Salmah</i>	
PATIENT SAFETY DIMENSION IN PRIMARY HEALTH CARE PADANG CITY	118
<i>Rizanda Machmud, Dien Gusta Anggraini Nursal</i>	
ANALYSIS OF LECTURERS AND EMPLOYEES WORKING BEHAVIOR CHANGING AGAINST THE IMPLEMENTATION OF SAFETY ENGINEERING AND ENVIRONMENTAL HEALTH IN FACULTY OF ENGINEERING USU.....	128
<i>Buchari Buchari, Nismah Panjaitan, Doli M. Jabbar Dalimunthe</i>	
ANALYSIS OF ACCIDENTS THROUGH THE APPROACH OF HUMAN ERROR AND JOB SAFETY ANALYSIS (JSA).....	139
<i>Elisabeth Ginting, Mangara M. Tambunan</i>	
HEALTH IMPACT OF PESTICIDE USING METHOD AT SPRAYED WORKER FARMER IN SUMBER MUFAKAT VILLAGE, KARO.....	146
<i>Eka Lestari Mahyuni, Muhammad Makmur Sinaga</i>	
RELATIONSHIP OCCUPATIONAL HEALTH AND SAFETY PROMOTION BETWEEN SAFETY BEHAVIOR PRODUCTION WORKERS IN PALM PLANT PTPN IV KEBUN BAH JAMBI	151
<i>Halinda Sari Lubis, James Steven</i>	
WORK POSTURE ASSESSMENT WITH APPLICATION (QUICK EXPOSURE CHECK) AT BOILER STATIONS.....	155
<i>Ikhsan Siregar, Ridhaul Fuad, Yusuf Hanifah</i>	

SESSION: HEALTH PROMOTION

THE RELATIONSHIP BETWEEN SOCIAL AND CULTURAL FACTORS WITH THE WILLINGNESS OF MOTHERS TO BRING THEIR BABIES FOR IMMUNIZATION	159
<i>Siti Zahara Nasution, Abdullah Husein Parinduri</i>	
FOOT CARE AND RISK OF DIABETIC FOOT IN PATIENT WITH TYPE 2 DIABETES AT H. ADAM MALIK HOSPITAL MEDAN	165
<i>Yesi Ariani, Rosina Br Tarigan, Aron Pase</i>	
STUDIES OF UTILIZATION OF RURAL HEALTH POST BASED ON KNOWLEDGE AND COMMUNITY ATTITUDE	169
<i>Zuhrina Aidha, Reni Agustina Harahap</i>	
ANALYSIS OF LIFESTYLE, KNOWLEDGE, ATTITUDE, AND KNOWLEDGE OF WOMEN AGED 20-50 YEARS OLD WITH VITAMIN D DEFICIENCY-INSUFFICIENCY IN NORTH SUMATERA, INDONESIA.....	173
<i>Dina Keumala Sari, Zaimah Zulkarnaini Tala, Sri Lestari, Sunna Vyatra Hutagalung, Ratna Akbari Ganie, Delina Sekar Harum</i>	
KNOWLEDGE AND ATTITUDE OF FEMALE SEX WORKERS IN OFFERING CONDOMS TO SEX CUSTOMERS IN MEDAN.....	180
<i>Dhani Syahputra Bukit</i>	

FLUID MANAGEMENT CORRELATION WITH THE QUALITY OF LIFE IN HEMODIALYSIS PATIENTS IN MEDAN.....	185
<i>Cholina Trisa Siregar, Yusraini Siagian</i>	
THE RELATIONSHIP BETWEEN THE PRACTICE OF SULUK WITH PSYCHOLOGICAL WELL BEING AMONG THE SALIKS AT TAREKAT NAQSYABANDIYAH AND NON-SALIKS.....	190
<i>Raras Sutatminingsih</i>	
PSYCHOMETRIC PROPERTIES OF INDONESIAN VERSION OF THE OXFORD HAPPINESS QUESTIONNAIRE	194
<i>Etti Rahmawati, Juliana Irmayanti Saragih, Nuovi Adeline</i>	
THE INFLUENCE OF PEOPLE'S KNOWLEDGE AND ATTITUDES TOWARD TRADITIONAL TREATMENT	198
<i>Marniati</i>	
HEALTH PROMOTION MANAGEMENT MODEL IN DEALING WITH TROPICAL DISEASES	202
<i>Eddy Syahrial, Destanul Aulia, Logut Sutandra Siregar</i>	
THE ENHANCEMENT OF PREGNANT WOMEN'S KNOWLEDGE AND ATTITUDE TO MATERNAL HEALTH THROUGH ART OF 'DULMULUK' IN OGAN ILIR DISTRICT, SOUTH SUMATERA	208
<i>Rini Mutahar, Arie Kusumaningrum, Diana Dewi Sartika, Wasis Budiarto</i>	
THE CORRELATION BETWEEN SELF CARE BEHAVIOR AND THE LEVEL OF HBA1C OF THE PATIENTS WITH DIABETES MELLITUS TYPE 2 IN BINJAI CITY, SUMATERA UTARA PROVINCE.....	213
<i>Rina Amelia, Harun Alrasyid Damanik, Dharma Lindarto, Erna Mutiara</i>	

SESSION: HEALTH POLICY ANALYSIS

THE DEVELOPMENT OF COMMUNITY-BASED HEALTH CENTER SERVICES IN BANYUWANGI.....	219
<i>Jayanti Dian Eka Sari, Diansanto Prayoga</i>	
RELATIONSHIP BETWEEN CLIMATE CHANGE AND TROPICAL DISEASE IN POOR COASTAL AREA, SERDANG BEDAGAI.....	224
<i>Destanul Aulia, Sri Fajar Ayu</i>	
PROVISION OF TRAUMA CARE IN MINISTRY OF PUBLIC HEALTH HOSPITALS REGIONAL HEALTH 3 THAILAND	228
<i>Nathakrid Thammakawinwong</i>	
MEASUREMENT MODEL OF HOSPITAL PERFORMANCE FOR ACHIEVING HOSPITAL MISSION IN INDONESIA	233
<i>Budi Hartono, Amal C. Sjaaf, Adang Bachtiar, Purnawan Junadi</i>	
THE BABY'S RIGHTS IN EXCLUSIVE BREASTFEEDING BY FAMILY IN SUBURBAN AREAS.....	241
<i>Ida Yustina, Fadilah Aini</i>	
IMPROVING CLEAN AND HEALTHY LIVING BEHAVIOR IN THE POOR COMMUNITIES IN COALTAL AREA, SERDANG BEDAGAI	245
<i>Sri Fajar Ayu, Destanul Aulia, Meutia Naully</i>	

SESSION: HEALTH INFORMATION SYSTEM

INFORMATION SYSTEM CHALLENGE ON PERFORMANCE MEASUREMENT DATA IN INDONESIAN PUBLIC HOSPITALS	252
<i>Wulan I. R. Sari</i>	
BLOOD DONOR INFORMATION SYSTEM DESIGN BASED ON WEB (CASE STUDY IN PMI TASIKMALAYA)	259
<i>Rian Arie Gustaman, Eka Wahyu Hidayat</i>	
ARCHITECTURE FOR EPIDEMIOLOGICAL DATA COLLECTION SYSTEM	264
<i>Erizal Salam, Sri Melvani Hardi, Ivan Jaya, Jos Timanta Tarigan</i>	

SESSION: ENVIRONMENTAL HEALTH

EOSINOPHILIA IN CHILDREN WITH SINGLE AND MIXED SOIL TRANSMITTED HELMINTHIASIS	268
<i>Yoan Carolina Panggabean, Sri Wahyuni Nasution, Lambok Siahaan, Ayodhia Pitaloka Pasaribu</i>	

THE EFFECT OF MODIFYNG CHILD ORIENTED HOSPITAL ENVIRONMENTS TO PREVENT THE IMPACT OF HOSPITALIZATION IN MEDAN, NORTH SUMATRA	271
<i>Farida Linda Sari Siregar, Febrina Oktavinola Kaban</i>	
THE INFLUENCE OF BOILING ON DECREASING LEVELS OF HEAVY METAL (ZN) IN CATFISH FROM GANET LANDFILLS FISHPOND IN TANJUNG PINANG CITY 2016.....	274
<i>Veronika Amelia Simbolon, Winanda Putri, Erpina Santi Meliana Nadeak, Nurhayani Lubis</i>	
INFLUENCE OF SOIL TRANSMITTED HELMINTHS INFECTION TOWARDS MALARIA DISEASE	278
<i>Lambok Siahaan, Merina Panggabean, Yoan Panggabean</i>	
MODIFIED OVITRAP MODEL AND SOCIAL COMMUNITY SYSTEM STUDY TO REDUCE AEDES AEGYPTI DENSITY IN PEMATANG SIANTAR CITY	281
<i>Indra Chahaya, Novrial</i>	
ANALYSIS OF METAL CONTENT OF LEAD (PB) IN SEDIMENT AND ON GONGGONG SNAIL AT COASTAL OF SENGGARANG BESAR TANJUNGPINANG CITY ON 2016	287
<i>Erpina Santi Meliana Nadeak, Retno Sevtaviana, Veronika Amelia, Novian Aldo</i>	
RELATIONSHIP AMONG SAME HOUSE CONTACT WITH TUBERCULOSIS PATIENTS WITH ASSOCIATED RISK FACTORS IN EAST ACEH REGENCY	292
<i>Sasilia, Z. Amir, T. A. Nasution, D. N. Santi</i>	
RELATIONSHIP OF ROADSIDE WORKER'S CHARACTERISTIC WITH BLOOD LEAD LEVEL	297
<i>Wirsal Hasan, Rahim Matondang, Alvi Syahrin, Chatarina Umbul Wahyuni, Taufik Ashar</i>	
HEALTHY AND SAFETY WORKPLACE DESIGN TO ENHANCE WORK PERFORMANCE	302
<i>L. Nurul Huda</i>	
ANALYSIS QUALITY OF ENVIRONMENTAL HEALTH IN COASTAL COMMUNITIES	308
<i>Sri Malem Indirawati, Setiaty Pandia, Herman Mawengkang, Wirsal Hasan</i>	
NEUROLOGICAL STATUS DISTURBANCES CAUSED BY MERCURY EXPOSURES FROM ARTISANAL GOLD MINING AREA IN WEST ACEH, ACEH PROVINCE.....	313
<i>Sofia, Tilaili Ibrahim, Mirza Risqa</i>	
CHRONIC LEAD POISONING PREVENTION IN CHILDREN WITH CALCIUM SUPPLEMENTATION	318
<i>Sri Sofyani, Aznan Lelo</i>	
HAND WASHING ACTIVITIES BASED ON TEXT MESSAGES AND PHONE CALL INTERVENTION TO HOUSEWIVES AT COASTAL REGION OF BAGAN DELIVILLAGE	324
<i>Evi Naria, Ade Candra</i>	
FAMILY EMPOWERMENT TO PREVENT DENGUE HEMORRHAGIC FEVER (DHF) IN DATARAN TINGGI, BINJAI, SUMATERA UTARA	331
<i>Nurmaini, Namora Lumongga Lubis</i>	

SESSION: EPIDEMIOLOGY

ANTHROPOMETRIC CORRELATION WITH BLOOD GLUCOSE LEVEL IN COMMUNITY HEALTH CENTER TUNTUNGAN, IN MEDAN CITY	335
<i>Rina Amelia</i>	
DIETARY GOAT MILK POTENTIAL IN PREVENTION OF HYPERTENSION IN SEDENTARY WOMEN.....	341
<i>Yusni</i>	
PHYSICAL ENVIRONMENT HOME AND INCIDENCE OF TB DISEASE IN TANJUNGPINANG DISTRICT	346
<i>Rina Madhona, Zainul Ikhwani, Fidyah Aminin</i>	
RELATIONSHIP OF SOCIOECONOMIC STATUS WITH EXACERBATION FREQUENCY AMONG CHILDREN WITH ASTHMA IN MALAYSIA.....	351
<i>Aniza Ismail, Nurawati Ahmad, Saperi Sulong, Rusdi Abd Rahman</i>	
QUALITY INFORMATION ANALYSIS OF DHF EPIDEMIOLOGICAL SURVEILLANCE SYSTEM AT TRENGGALEK DISTRICT HEALTH OFFICE	356
<i>Syifa'Ul Lailiyah, Chatarina Umbul Wahyuni, Atik Choirul Hidayah</i>	
INTESTINAL PROTOZOA INFECTIONS AND ASSOCIATED RISK FACTORS IN RURAL COMMUNITY OF SAMOSIR ISLAND INDONESIA.....	362
<i>Hemma Yulfi, Dewi Masyithah Darlan, Toni Wandra, Ivan Elisabeth Purba, Yunita Purba, John M. Saragih, Akira Ito</i>	

THE EFFECT OF A PSYCHOEDUCATION INTERVENTION ON BURDEN AMONG CAREGIVERS OF PERSONS WITH SCHIZOPHRENIA IN MEDAN	368
<i>Jenny Marlindawani Purba, Evi Karota Bukit</i>	
IDENTIFICATION OF JAK2V617F MUTATION ON MYELOPROLIFERATIVE DISORDERS IN MEDAN	373
<i>Dwi Rita Anggraini, Hidayat Hidayat, Mega Sitorus</i>	
RELATIONSHIP BETWEEN SMOKING AND HYPERTENSION IN PATIENTS WITH STROKE	379
<i>Cut Aria Arina, Cut Aryfa Andra</i>	
COMPARING COMMUNITY SOCIO-DEMOGRAPHIC PROFILES TOWARDS DENGUE IN TWO SELECTED AREAS IN MEDAN, NORTH SUMATRA, INDONESIA.....	383
<i>Sorimuda Sarumpaet, Fotarisman Zaluchu, Syarifah</i>	
COMPARISON LABORATORY METHODS FOR DETECTION OF HOOKWORMS INFECTION	392
<i>Merina Panggabean, Lambok Siahaan, Yoan Carolina Panggabean</i>	
THE INFLUENCE OF SOCIOCULTURAL, ENVIRONMENTAL FACTOR AND AEDES LARVAE DENSITY ON TRANSMISSION OF DENGUE HEMORRHAGIC FEVER IN NORTH SUMATERA PROVINCE	395
<i>Fazidah A Siregar, Destanul Aulia</i>	
THE INFLUENCE ULTRAVIOLET LIGHT AND SCENT THERAPY FOR REDUCING GERMS PULMONARY TUBERCULOSIS.....	401
<i>Zainul Ikhwan, Rina Madhona</i>	
CORRELATION BETWEEN ASPARTATE AMINOTRANSFERASE/ ALANINE TRANSFERASE RATIO (AST/ALT RATIO) AND STAGE OF LIVER FIBROSIS IN PATIENTS WITH CHRONIC HEPATITIS	404
<i>Fitriani Lumongga, Radita Nur Anggraeni</i>	
PREDICTING TIME TO ACHIEVING VIRAL LOAD LESS THAN 50 COPIES/ML IN HIV INFECTED PATIENTS ON ANTIRETROVIRAL THERAPY: A COHORT STUDY	408
<i>Rahayu Lubis, Awang M Bulgiba</i>	
Author Index	