



1st ICOS-PH
INTERNATIONAL CONFERENCE
ON SAFETY AND PUBLIC HEALTH



**THE 1st INTERNATIONAL CONFERENCE
ON SAFETY & PUBLIC HEALTH**

Apert of Hasanuddin University 64th Anniversary Celebration

GLOBAL COLLABORATION FOR SAFETY AND PUBLIC HEALTH

Virtual Conference

3-4 September 2020



ABSTRACT BOOK



Dra. Hj. Ida Fauziyah M.Si.
(Minister of Manpower
Indonesia)



Prof. Dr. Ir. M. Nurdin A., M.Agr.
(Governor of South Sulawesi)



Prof. Dr. Dwia Aries Tina P., MA
(Rector of Hasanuddin University)



Prof. Dino Pisaniello, Ph.D
(Professor in Occupational
and Environmental Hygiene,
University of Adelaide)



Prof. Doo-Yong Park, Dr.PH, CIH
(Korea Occupational Safety
and Health Agency (KOSHA)
President)



Dr. Ismaniza Ismail, Ph.D
(Senior Lecturer, Universiti
Teknologi MARA)



Ms. Michiko Miyamoto
(International Labour
Organization President,
Indonesia)



A/Prof. Paul Rothmore, Ph.D
(Senior Lecturer in
Occupational Health,
University of Adelaide)

Mila Tejamaya, SSI, MOSH, Ph.D
(President of Indonesian Industrial
Hygiene Association)



Yahya T, SKM, M.Kes, MOHS, Ph.D
(Head of OSH Department, Faculty,
of Public Health, Hasanuddin
University)

Supported by:

GACETA SANITARIA

Indofood CBP

PERSAKMI

mandiri



Global collaboration for safety and public health (Ebook)

ICOS-PH
Makassar : © 2020
Copyright © einstein medical 2020
All right reserved

Layout : **Tim ICOS-PH**
Design Cover : **Tim ICOS-PH**
Penanggung Jawab Naskah : **Tim ICOS-PH**

Ebook Terbit Pertama Kali , September 2020
144 hlm; 21x29 cm
ISBN 978-623-6714-28-7 (PDF)

Diterbitkan oleh Penerbit Nas Media Pustaka
CV. Nas Media Pustaka
Anggota IKAPI
No. 018/SSL/2018
Jl. Batua Raya No. 550 Makassar 90233
Telp. 0813-8002-3737
redaksi@nasmediapustaka.id
www.nasmediapustaka.co.id
nasmedia.id
Instagram : [@nasmedia.id](https://www.instagram.com/nasmedia.id)
Fanspage : [Nasmedia.id](https://www.facebook.com/Nasmedia.id)

Table Of Contents

No	Title	Author	Institution/ University	Page
1	Legal Protection Of Labor Fatigue In The Production Part Of Pt. Maruki International Indonesia Makassar	Indar	Universitas Hasanuddin	12
2	Public Perception Toward Local Food And Macro Nutrient Content Of Kaledo	Yusma Indah Jayadi	UIN Alauddin Makassar	13
3	The Effect Of Leadership Styles Toward Organizational Climate And Job Satisfaction Of Nurses In Era Of National Health Insurance In Public Hospital Makassar City	Suci Rahmadani	Universitas Hasanuddin	14
4	Outcome Of Acute Head Injury Due To Road Traffic Accident: Its Association With Interleukin-10	Sekplin Sekeon	Universitas Sam Ratulangi	15
5	Social, Economic, and Cultural Interactions among Tuberculosis Patients in the Slums of Makassar City	A. Rizki Amelia	Universitas Muslim Indonesia	16
6	The Roles Of Health-Promoting Media In The Clean And Healthy Living Behavior Of Elementary School Students	Titin Nasiatin	Universitas Faletahan Kramatwatu Serang	17
7	Artificial Intelligence In Healthcare: Oppurtunities And Risk For Future	Sri Sunarti	Universitas Muhammadiyah Kalimantan Timur	19
8	The Association Between Environmental Tobacco Smoke Exposure And Child Nutrition On Childhood Respiratory Disease	Andiko Nugraha Kusuma	Universitas Faletahan	20
9	Evaluation Context And Mechanisms Of Stunting Intervention In Locus Area : A Systematic Review	Sirajuddin	Universitas Hasanuddin	21
10	The Influence Of Information And Culture To Work Safety Risks In Fishermen	Marniati	Universitas Teuku Umar	22
11	The Effect Of Substituting Carrots (<i>Daucus Carota L.</i>) Into Tempeh Brownies On The Intake Of Protein Energy Deficiency In Indonesia	Syarfaini	UIN Alauddin Makassar	23
12	Who Is More Likely Being Lonely? Is Loneliness Associated With Suicidal Behaviours Among Indonesian Adolescents? Findings	I Gusti Ngurah Edi Putra	University Of Wollongong	24

	From The 2015 GSHS			
13	Risk Factors Of Stroke Occurrence In Health Institution Employees Who Check Up At The Health Service Expo Event Indonesia	Syarfaini	UIN Alauddin Makassar	25
14	Mapping Healthy Lorong In Makassar City, Indonesia: Implications For Community Empowerment	Sukri Palutturi	Universitas Hasanuddin	26
15	An Overview Of Implementation Of The Continuity Of Care Model In Maternal Health Services: A Literature Review	Adriana Palimbo	Universitas Hasanuddin	27
16	Effects Of Giving Saturated And Unsaturated Fats To Cholesterol Levels And Weight Gain In Rats	Abdul Salam	Universitas Hasanuddin	28
17	How To Detect Healthcare Fraud ? “A Systematic Review”	Andi Yaumil Bay R Thaifur	Universitas Dayanu Iksanuddin	29
18	Political Commitment Of Local Government In Handling Stunting During The Covid-19 Pandemic: A Case Study Of Enrekang District	Amran Razak	Universitas Hasanuddin	30
19	The Relationship Of Posture Working With Musculoskeletal Disorders (Msd) In The Lipa 'Sa'be Mandar Weaver West Sulawesi Indonesia	Fatmawaty Mallapiang	UIN Alauddin Makassar	31
20	The State Responsibility On Food Security On The Pandemic	Maskun	Universitas Hasanuddin	32
21	Smoking Habits, Consumption Patterns, And Systemic Diseases And Their Effects As Risk Factors On Periodontal Disease Among The 19-64 Age Group In The Community Health Centers Of Malang City	Rara Warih Gayatri	Universitas Negeri Malang	33
22	Safety Risk Assessment In Construction Projects	A. Muflihah Darwis	Universitas Hasanuddin	34
23	The Effect Of Giving Moringa Leaf Extract To Pregnant Women Informal Sector Workers On DNA Damage	Masyitha Muis	Universitas Hasanuddin	35
24	Psychological Fatigue Among Employees Air Traffic Controller In Indonesia	Lalu Muhammad Saleh	Universitas Hasanuddin	36
25	Ecological Risk Assessment Of Hexavalent Chromium And Silicon Dioxide In Well Water In	Annisa Rauf Utami	Universitas Hasanuddin	37

	Maros Regency, Indonesia			
26	Meta Synthesis Mobile Health Education of Healthy Lifestyle For Visual Impairment	Mesra Rahayu	Universitas Hasanuddin	39
27	Assessment Of Heavy Metals Pollution And Ecological Risk Level In Well Water In The Pangkajene Watershed Area, Indonesia	Ratna Dwi Puji Astuti	Universitas Hasanuddin	40
28	Principles And Strategies For Lorong Communities Empowerment In Creating Makassar Healthy City, Indonesia	Sukri Palutturi	Universitas Hasanuddin	41
29	Stunted and Stimulation Affect Child Development in Jeneponto District, Indonesia	Hasan Basri	Universitas Hasanuddin	42
30	Chemical Composition Of Moringa Oleifera And Honey From Three Different Areas In South Sulawesi, Indonesia	Veni Hadju	Universitas Hasanuddin	43
31	Influence Of Infrastructure Facilities, Population Density And Officers On Waste Water Disposal In Community Environment	Susy Sriwahyuni	Universitas Teuku Umar	44
32	Analyzing The Use Of Pesticides On Health Complaints Of Farmers In Waihatu Kairatu West Village, Indonesia	Hamka	STIKES Maluku Husada	45
33	Mother's Behaviour In Breastfeeding In Gowa Regency, South Sulawesi (Study On Mothers With Insufficient Breastmilk Production)	Fairus Prihatin Idris	Universitas Muslim Indonesia	46
34	A Study Of Predictive Factors Comparison With Work Fatigue Among Firefighters	Kresna Febriyanto	Universitas Muhammadiyah Kalimantan Timur	47
35	Intervention Model Of Psychological Fatigue Management Among Air Traffic Controller (Atc) Employee In Indonesia: A Qualitative Study	Lalu Muhammad Saleh	Universitas Hasanuddin	48
36	Good Corporate Governance Concept Of Hospital In National Health Insurance (Jkn) Era In South Sulawesi Province	Sukri Palutturi	Universitas Hasanuddin	49
37	The Relationship Between Adolescent Risk Behavior In Drug Abuse: Literature Review	Ahmad Yani	Universitas Hasanuddin	50

38	Risk Factor And Interventions Behavioral Changing Strategy In Acceleration Of Stunting Prevention “A Systematic Review”	Marni	Universitas Hasanuddin	51
39	Work Risk Management In Duta Stainless Welding Workshop	Ishalyadi	Universitas Teuku Umar	52
40	Collaboration In Handling Covid-19 Toward People In Poverty Line (Study Case In Makassar)	Muhammad Iqbal Latief	Universitas Hasanuddin	53
41	The Effect Of Using Medula Spinalis Belt (MSB) Against Complaints Of Low Back Pain (LBP)	Suharni A. Fachrin	Universitas Muslim Indonesia	54
42	Factors Related To Smoking Habits Of Children Under 18 Years Old In The Working Area Of Birobuli Public Health Center	Muhammad Ryman Napirah	Universitas Hasanuddin	55
43	Determinants of Voluntary Counseling and Testing (VCT) HIV Utilization Among Pregnant Women in Jumpandang Baru Health Center	Muhammad Yusran Amir	Universitas Hasanuddin	56
44	Home Sanitation Facilities And Prevalence Of Diarrhea For Children In Oelnasi Village, Kupang Tengah Sub-District	Agustina	Poltekkes Kemenkes Kupang	57
45	Implementation Of Clts Program In Odf And Non Odf Villages Using Participatory Approach In Sumba Timur Regency East Nusa Tenggara	Ragu Theodolfi	Politeknik MoH Kupang	58
46	Capacity Of Lung Function For Furniture And Sawmill Workers In Kupang City 2019	Olga Dukabain	Poltekkes Kemenkes Kupang	59
47	Good Corporate Governance Concept Of Hospital In National Health Insurance (Jkn) Era In South Sulawesi Province	Sukri Palutturi	Universitas Hasanuddin	60
48	Religious Coping On Women’s Cancer Survivors	Azriful	UIN Alauddin Makassar	61
49	Exposure Analysis Of Lead (Pb) And Chromium (Cr) In Workplace Workshop Pt. X	Ari Widyantoro	Universitas Islam Indonesia	62
50	Compliance With An Order In Prevention Of COVID-19 In Daily Activities Among Adolescents During Pandemic In South Sulawesi Province, Indonesia	Bs Titi Haerana	UIN Alauddin	63

51	COVID-19 Risk Level On Daily Activities And Its Difference Between Sex In Indonesia	Bs. Titi Haerana	UIN Alauddin	64
52	Monotony (Work Variety) And Occupational Fatigue Among Non-Technical Workers On Pt. X	Gusti Firdha Amalia	Universitas Lambung Mangkurat	65
53	Referral System Implementation Of BPJS Health Patients In Primary Health Center Of Barrang Lompo Island Makassar	Suci Rahmadani	Universitas Hasanuddin	66
54	Pregnancy And Work Stress: Investigation Of Factors Relating Level In Pregnant Working Women	Retno Widowati	Universitas Nasional	67
55	Fermented Soybean Cake Nugget As An Alternative For Increasing Weight Of Little Children Agency	Suryani B	Poltekkes Kemenkes Makassar	68
56	The Difference In The Number Of Complaints From Patient Health Services Using National Health Insurance At Regional General Hospitals In Gorontalo Province	Hendrik David Julianus Borolla	Universitas Hasanuddin	69
57	Essential Oil As A New Tool For Larvicidal Aedes Aegypti: A Systematic Review	Budiman	Universitas Muhammadiyah Palu	70
58	Safety And Health Evaluation Of The Gas Exposure In The Area Of Effluent Water Treatment Plant (Ewtp) Of Pt. X	Muhammad Isradi Zainal	Universitas Balikpapan	71
59	How Is The Correlation Job Crafting To Job Satisfaction Of Hospital Staff At Disruption Era In Hospital Industries	Andi Indahwati Sidin	Universitas Hasanuddin	72
60	What Kind Of Information That Indonesian Conditional Cash Transfer Beneficiaries Need? : A Preliminary Study	Ratna Frenty Nurkhalim	Institut Ilmu Kesehatan Bhakti Wiyata Kediri	73
61	Exposure Analysis Of Benzene In Workplace Control Room Spu A And Spu B Pt. X	Azham Umar Abidin	Universitas Islam Indonesia	74
62	Food Intake and Anemia Among Preconception Women In Takalar District, Indonesia	Rahayu Nurul Reski	Universitas Hasanuddin	75
63	Fishing Habits And The Connection With Malaria Case In East Lombok Regency	Chatarina Umbul Wahyuni	Universitas Airlangga	76
64	The Anticipatory Guideline For Parents Of Child Victims Of Sexual	Triana Indrayani	Universitas Hasanuddin	77

65	Cultural Tradisionals And Special Rituals Relating To The Health In Bugis Ethnics Makassar	M. Faiz Satrianegara	UIN Alauddin Makassar	78
66	Community Beliefs Toward Causes Of Illness: Cross Cultural Studies In Tolotang And Ammatoa Ethnics In Indonesia	Hamdan Juhannis	UIN Alauddin Makassar	79
67	The Risk Factors For The Incidence Of Pulmonary Tuberculosis In Liukang Tupabbiring, Pangkajene Archipelago Regency, Indonesia, 2019	Andi Susilawaty	UIN Alauddin	80
68	The Effect Of Consume Capsules Seaweed On The Hemoglobin Levels Of Pregnant Women At Puskesmas Batua Makassarin 2019	Julia Fitriningsih	Universitas Hasanuddin	81
69	Climate Factors And Dengue Fever Occurance In Makassar during Period of 2011-2017	Syahrul Basri	UIN Alauddin Makassar	82
70	Bayesian Spatial Survival Modelling For Dengue Fever In Makassar, Indonesia	Sri Astuti Thamrin	Universitas Hasanuddin	83
71	Perceived Barriers And Needs Of Undernourished Teenager Girl In Small Island Of Indonesia	Healthy Hidayanty	Universitas Hasanuddin	84
72	A Linkage Of Sanitary Conditions And Personal Hygiene To The Presence Of E. Coli In Warmindo Food Stall	Azham Umar Abidin	Universitas Islam Indonesia	85
73	Effect Of Physical Environment And Prisoner's Behavior With The Implementation Of Control Programs Against The Incidence Of TB In Corrections Makassar City Class I Year 2020	A Rizki Amelia	Universitas Muslim Indonesia	86
74	Implementation Occupational Safety And Health Management System (Oshms) In Occupational Accidents At Manufacture Industry	Azham Umar Abidin	Universitas Islam Indonesia	87
75	Biomarker Of Pneumonia Disease In Children In "Grill Culture": A Systematic Review	Sintha Lisa Purimahua	Universitas Hasanuddin	89
76	Fermented Soybean Cake Nugget As An Alternative For Increasing Weight Of Little Children Aged 36 – 60 Months	Suriani B	Poltekkes Kemenkes Makassar	90
77	Beauty Clinic Waste Generation	Fina Binazir Maziya	Universitas Islam	91

	And Analysis On Calorific Value In Yogyakarta City		Indonesia	
78	Mental Health Intervention Of Tadulako University Students After Disaster: Earthquake, Tsunami, And Liquefaction In Palu, Province Of Central Sulawesi, Indonesia	Ikhlas Rasido	Universitas Tadulako	92
79	PQRST Wave Detection On ECG Signals	Putri Madona	Politeknik Caltex Riau	93
80	Developing Indicators Of Ethnic-Based Healthy Traditional Markets In South Sulawesi, Indonesia	Sukri Palutturi	Universitas Hasanuddin	94
81	The Prediction Model Of The Environmental Management For Lung TB Control In Mamuju Regency West Sulawesi Province	Anwar Mallongi	Universitas Hasanuddin	95
82	Effect Of Convergence Action On Reducing Stunting Prevalence In Under-Five Children In Banggai District, Center Sulawesi, Indonesia	Aspar Abdul Gani	Universitas Hasanuddin	96
83	Prenatal Yoga And Continuous Support During Childbirth : A Systematic Review	Ni Made Dweianti	Polikteknik Kesehatan Kartini Bali	97
84	Public Knowledge toward Family Medicine Plants Usage as an Immune Enhancement Supplement during The Covid-19 Pandemic	A. Muflihah Darwis	Universitas Hasanuddin	98
85	Psychotherapy Intervention Diabetes Distress In Diabetes Patients Type 2 A Systematic Review	Zhanaz	Universitas Muhammadiyah Palu	99
86	Prevent Postpartum Blues With The Implementation Of Breastfeeding Father Education Model To Increase The Frequency Of Breastfeeding In Mothers: A Systematic Review	Gusti Ayu Martha Winingsih	Politeknik Kesehatan Kartini Bali	100
87	The Importance Of Implementation Of A Healthy Campus Program: A Literature Review	Nur Ramlah	Universitas Hasanuddin	101
88	Relationship Of Working Period, Work Shift, With Workload Toward Fatigue In Air Traffic Controller Operators At Sultan Hasanuddin Airport Makassar	Syamsiar S. Russeng	Universitas Hasanuddin	102

89	How To Improve Effectiveness And Efficiency Of Kangaroo Mother Care? A Literature Review Of Equipment Supporting Continuous Kangaroo Mother Care	Syawal Kamiluddin Saptaputra	Universitas Halu Oleo	103
90	Predictors Of Hospital Patient Safety Culture Outcomes In Jambi Province	Guspianto	Universitas Jambi	104
91	Determinant Factors Of Weight Status Among Under Two Years Children Who Received The Complementary Feeding Program	Eha Sumantri	STIKES Tamalate	105
92	Community Behaviour In Garbage Processing In Spermonde Islands Makassar City	Agus Bintara Birawida	Universitas Hasanuddin	106
93	A Case Study: Chemical Health Risk Assessment In Three Footwear Small Industries In Bogor-Indonesia Year 2019	Yenni Miranda Savira	Universitas Indonesia	107
94	Ergonomic Risk Assessment And Prevalence Of Musculoskeletal Disorders Among Workers In Two Types Of Tofu Small Industries In Tangerang 2019	Kania Viatina	Universitas Indonesia	108
95	Ergonomic Assessment In Metal-Based Small Industries In Bogor Regency Indonesia 2019	Prima Andriani	Universitas Indonesia	109
96	Evaluation Of The Completeness And Accuracy Of The Safety Data Sheets (SDS) Of 42 Chemical Substances	Dana Hidayat	Universitas Indonesia	110
97	An Analysis Of Pivotal Factors In The Implementation Of Occupational Health And Safety Management Systems In Micro, Small And Medium Enterprises (Msmes): Literature Review	Mila Tejamaya	Universitas Indonesia	111
98	Adherences in Implementing Antenatal Care Protocols During the COVID-19 Pandemic at Sari Mulia Hospital, Banjarmasin	Anggrita Sari	Universitas Sari Mulia Banjarmasin	112
99	Analysis Of Risk Factors And Noncommunicable Diseases (NCDs) Among Adolescents	Andi Selvi Yusnitasari	Universitas Hasanuddin	113
100	Occupational Health Profile In Msmes: An Overview At Tarikolot Village West Java	L. Meily Kurniawidjaja	Universitas Indonesia	114
101	Occupational Health Profile In Msmes: An Overview At	Rijal Noor Al-Ghiffari	Universitas Indonesia	115

	Tarikolot Village, West Java			
102	The Contribution Of Human Error Related To Occupational Accident Among Traditional Diver	Kresna Febriyanto	Universitas Muhammadiyah Kalimantan Timur	116
103	The Characteristic Of People With Tuberculosis By Type Of Treatment Selected Before Diagnosed In Surabaya, East Java, Indonesia	Chatarina Umbul Wahyuni	Universitas Airlangga	117
104	Analysis Of Microplastic In Clean Water Sources Around The Tamangapa Landfill In Makassar	Muh Fajaruddin Natsir	Universitas Hasanuddin	118
105	Cost And Benefit Analysis Of Implementation Occupational Health And Safety Management System	Ida Ayu Indira Dwika Lestari	Universitas Indonesia	119
106	Qualitative Analysis Of Financing Hiv And Aids Program In Health Office Of Jayawijaya District, Papua Province	Theresia Falentina Resubun	Universitas Hasanuddin	120
107	The Effect Of Education Using Ular Tanga On Selection Of Healthy Snacks In Elementary School Student	Juztika Andriani Farid	Universitas Hasanuddin	121
108	Analysis Factors Related To Quality Of Life In Air Traffic Controller (ATC) At Sultan Hasanuddin International Airport Makassar	Putri Yanti	Universitas Hasanuddin	122
109	The Correlation Between Implementation Of Occupational Health And Safety Program With Nurses Job Satisfaction In Makassar City	Irwandy	Universitas Hasanuddin	123
110	Analysis Of Leadership Style Based On The Study Of Multifactor Leadership Questionnaire In Palu Anutapura Hospital	Fajrillah Kolomboy	Universitas Hasanuddin	124
111	Ergonomic Sofa Design To Support Kangaroo Mother Care In Indonesia	Syawal Kamiluddin Saptaputra	Universitas Halu Oleo	125
112	Analysis Of Factors Affecting Musculoskeletal Complaints To Female Sea Grass Farmers In Takalar District In 2020	Adhinda Putri Pratiwi	Universitas Hasanuddin	126
113	The Effects Of Iron Folic Acid And Multi-Micronutrient Supplementation Since Preconception On Hemoglobin	Abdul Razak Thaha	Universitas Hasanuddin	127

	Concentration, Birth Weight And Length, And Nutritional Status Of Children Under Two			
114	The Importance Of The Family Approach On TB Case Findingamong People Living With HIV And AIDS In Kupang, Indonesia	Imelda F.E. Manurung	Universitas Nusa Cendana	129
115	Pornography Behavior In Early Adolescents	Indra Fajarwati Ibnu	Universitas Hasanuddin	130
116	Evaluation Of Health Service Quality Policy In The JKN Era With A Realist Evaluation Approach In South Sulawesi Province	Rini Anggraeni	Universitas Hasanuddin	131
117	Risk Factors Of Anemia In Pregnant Women At Singgani Health Center And Tipo Health Center In Palu City	Arum Diah Pusparini	Universitas Hasanuddin	133
118	Differences In Knowledge And Behaviour Related To Healthy And Productive Women Movement (Gp2sp) Among Highly And Low Educated Women	Atjo Wahyu	Universitas Hasanuddin	134
119	Social Mapping Model For Hypertension Prevention In Urban Area	Ida Leida M Thaha	Universitas Hasanuddin	135
120	Behavior Modification Of Obesity Prevention Through Abc Chains In Children With Tunarungu At Slb-B Ypac, Makassar City	Nasrah	Universitas Hasanuddin	136
121	Complaints Of Low Back Pain Among Female Workers In Takalar District : A Mixed Method Study	Yahya Thamrin	Universitas Hasanuddin	137
122	Musculoskeletal Disorders Problems And Its Relation With Age, Working Periods, And Smoking Habit Among Fishers In Maros Regency	Yahya Thamrin	Universitas Hasanuddin	138
123	Relation Of Body Mass Index And Work Posture/Position On Musculoskeletal Disorders Among Fishers In Maros Regency	Yahya Thamrin	Universitas Hasanuddin	139
124	Measuring Self-Regulation After Nutrition Education Modules With Self Determination Theory (Sdt) Intervention Among Teachers With Or At Risk	Ridwan Mochtar Thaha	Universitas Hasanuddin	140

	Metabolic Syndrome			
125	Bacteria contamination analysis on the hands and bowls of meatball cart vendors: an observational descriptive	Hasnawati Amqam	Universitas Hasanuddin	141
126	The Effect of Work Family Conflict and Workload on The Performance of Female Nurses With Work Stress and Emotional Exhaustion as an Intervening Variables on Female Nurses in RS.Dr.Tadjuddin Chalid Makassar	Tenri Diah T.A	Universitas Hasanuddin	142
127	Unmet need for contraception in Indonesia (PMA 2015 Analysis)	Apik Indarty Moedjino	Universitas Hasanuddin	143
128	Comparison of the effect of animated sign language videos and leaflets on deaf motivation in preventing obesity in children	Nasrah	Universitas Hasanuddin	144
129	The Effectiveness Of Treating Secang Woods Stew to Bone Density In Menopause Women	Ayu Lestari	Universitas Megarezky	145

Climate Factors and Dengue Fever Occurrence in Makassar during Period of 2011-2017

Andi Susilawaty¹, Ranti Ekasari¹, Bs. Titi Haerana¹, Lilis Widiastuty¹, Dian Rezki Wijaya¹, Zilfadhilah

Arranury¹, Syahrul Basri^{1*}

¹ Universitas Islam Negeri Alauddin Makassar

***Corresponding authors.**

E-mail address: syahrul.basri@uin-alauddin.ac.id

Abstract

Objective: Dengue fever is a global burden because of high cases number. Climate factors became determinant of the mosquito's growth. Mosquito as a vector is very sensitive to their environment especially climate condition which are temperature, rainfall, humidity and wind speed. The aim of this study was to analyze the correlation between climate factors (temperature, rainfall, humidity, wind speed) and dengue fever cases in Makassar 2011-2017.

Methods : It was quantitative study and analyzed by using General Estimating Equation (GEE). Gee was used to know the correlation of independent and dependent variable and also showed the model of variables. This study located in Makassar by using secondary data from Health District Office of Makassar Dengue Fever Cases Data and Meteorological, Climatological, and Geophysical Agency of Makassar for climate data from January 2011 to December 2017.

Results : The result showed significant correlation between climate variables that has been researched which were temperature, humidity, rainfall, and wind speed to dengue fever cases.

Conclusions : As a conclusion, humidity had strongest correlation to dengue fever cases. It also showed positive correlation, while other showed negative correlation.

Keywords: Dengue, temperature, rainfall, humidity, wind speed.