



# Personal and Environmental Risk Factors of Work-Related Stress: A Cross-Sectional Study among Female Workers of a Textile Industry in Indonesia

Setyawan, Haris <sup>a</sup> ;	Denny, Hanifa M. b 🔀 ;	Nurjazuli, Nurjazuli <sup>c</sup> ;	Dewi, Endah Kumala <sup>d</sup>
Save all to auth	or list		

- <sup>a</sup> Faculty of Public Health, Diponegoro University, Semarang, Indonesia
- <sup>b</sup> Department of Occupational Safety and Health, Faculty of Public Health, Diponegoro University, Semarang, Indonesia
- <sup>c</sup> Department of Environmental Health, Faculty of Public Health, Diponegoro University, Semarang, Indonesia
- <sup>d</sup> Faculty of Psychology, Diponegoro University, Semarang, Indonesia

Full text options ✓ Export ✓

### **Abstract**

Author keywords

SciVal Topics

Funding details

### **Abstract**

Background: In 2017, the prevalence of work-related stress reached 10.7% of the 792 million population. This work-related stress is common in the textile industry, characterized by many environmental risk factors coming from the weaving processes. The stress problem is discussed in various countries worldwide. Objective: The study aimed to investigate the personal and environmental risk factors for work-related stress in textile industry workers. Methods: This cross-sectional study was conducted in a textile factory weaving section in Solo, Indonesia. The

## Cited by 0 documents

Inform me when this document is cited in Scopus:

Set citation alert >

### Related documents

Health effects related to wind turbine sound: A review

van Kamp, I., van den Berg, F. (2021) Proceedings of INTER-NOISE 2021 - 2021 International Congress and Exposition of Noise Control Engineering

Evidence relating to environmental noise exposure and annoyance, sleep disturbance, cardio-vascular and metabolic health outcomes in the context of IGCB (N): A scoping review of evidence regarding sources other than transport noise

van Kamp, I., Simon, S., Notley, H. (2020) Proceedings of 2020 International Congress on Noise Control Engineering, INTER-NOISE 2020

Association between noise annoyance and mental health outcomes - A systematic review

Gong, X., Fenech, B., Blackmore, C. (2021) Proceedings of INTER-NOISE 2021 - 2021 International Congress and Exposition of Noise Control Engineering

View all related documents based on references

Find more related documents in Scopus based on:

Authors > Keywords >

Q



# Source details

# Open Public Health Journal

Scopus coverage years: from 2011 to Present

Publisher: Bentham ISSN: 1874-9445

Subject area: (Nursing: Community and Home Care) (Social Sciences: Health (social science))

(Medicine: Public Health, Environmental and Occupational Health)

Source type: Journal

View all documents > Set document alert Save to source list Source Homepage

CiteScore CiteScore rank & trend Scopus content coverage

# Improved CiteScore methodology

CiteScore 2021 counts the citations received in 2018-2021 to articles, reviews, conference papers, book chapters and data papers published in 2018-2021, and divides this by the number of publications published in 2018-2021. Learn more >

CiteScore 2021

$$1.0 = \frac{307 \text{ Citations } 2018 - 2021}{312 \text{ Documents } 2018 - 2021}$$

Calculated on 05 May, 2022

# CiteScoreTracker 2022 ①

Last updated on 06 December, 2022 • Updated monthly

# CiteScore rank 2021 ①

Category	Rank	Percentile	
Nursing Community and Home Care	#25/37	33rd	•
Social Sciences  Health (social science)	#226/323	30th	
Medicine			•

View CiteScore methodology ➤ CiteScore FAQ ➤ Add CiteScore to your site &

CiteScore 2021

1.0

SJR 2021

**SNIP 2021** 0.429

(1)

①

(i)

×



An open access journal publishing under license CC-BY 4.0



- <u>Home</u>
- Publisher Home
- About Us
- Editorial Board
- Submit Manuscript
- Contact Us

Website Search... IMPORTANT INFORMATION  $\Psi$ 

About the JournalBoard Recruitment WorkflowShort-guideEditorial PoliciesEnsuring Content IntegrityFAQsPublication Cycle Process FlowQuick Track Option

FOR REVIEWERS ₩

Peer Review WorkflowReviewers Guidelines Submit Issue Froposal FOR GUEST EDITORS ₩

Become an Editorial Board Member

Become a Reviewer

and

Guidelines for Guest Editors Become a Member Scope FOR AUTHORS ₩

Author BenefitsAuthorshipCopyediting ServicesCorporate MembershipInstructions for AuthorsPlagiarism PreventionFabricating and Stating Fai In Ther Open Public Held the John Andrew Art Exist and Executions of the Commence of the Comment MARKETING OPPORTUNITIES 

ducation; epidemiology; social medicine; health services research; ethics; environmental health; adolescent health; AIDS care; and mental health care.

The Open Public Health Journal, a peer reviewed journal, is an important and reliable source of current information on developments in the field. The emphasis will be on publishing quality articles rapidly and freely available worldwide.

## **Recent Articles**

RESEARCH ARTICLE



Factors Predicting the Holistic Health Status of Cambodian Migrant Workers in Thailand

Manndy Nget, Manyat Ruchiwit and Eileen Collins

The Open Public Health Journal, 2022; 15: e187494452210312.

Electronic Publication Date: December 22, 2022

View Abstract View Fulltext HTML Download PDF Download ePub

## RESEARCH ARTICLE



An Exploration of System Factors Influencing Older Adults' Initial Engagement with Physical Activity **Interventions** 

Andrew Powell and Samuel Nyman

The Open Public Health Journal, 2022; 15: e187494452212191.

Electronic Publication Date: December 22, 2022

View Abstract View Fulltext HTML Download PDF Download ePub

## RESEARCH ARTICLE



## The Responses of Rural Learner Nurses to Virtual Learning in a COVID-19 Era

Masenyani Oupa Mbombi, Livhuwani Muthelo and Arthur Thabo Phukubye

The Open Public Health Journal, 2022; 15: e187494452210100.

Electronic Publication Date: December 21, 2022



An open access journal publishing under license CC-BY 4.0



- <u>Home</u>
- Publisher Home
- About Us
- Editorial Board
- Submit Manuscript
- Contact Us

Website Search...

IMPORTANT INFORMATION  $\Psi$ 

About the JournalBoard Recruitment WorkflowShort-guideEditorial PoliciesEnsuring Content IntegrityFAQsPublication Cycle Process FlowQuick Track Option

FOR REVIEWERS ₩

Peer Review WorkflowReviewers Guidelines

FOR GUEST EDITORS ₩

Guidelines for Guest Editors

FOR AUTHORS ₩

Editorial Board Members

# Editorial Board Members

ervicesCorporate MembershipInstructions for AuthorsPlagiarism PreventionFabricating and Stating False blication Discussions and Corrections Allegations From whistleblowers Publishing Ethics and Rectitude Publication

FeeArchiving PoliciesSpecial Fee Waivers and DiscountsManuscript Transfer Facility

MARKETING OPPORTUNITIES ₩

Advertise With UsKudosAdvertising policy



Emily S. Bailey D Scopus' Publiqued G 4 Department of Public Health College of Pharmacy and Health Sciences Campbell University

United States

Email: ebailey(a)campbell.edu

View Biography

# Biography of Emily S. Bailey



Dr. Emily Bailey is an Assistant Professor in the Department of Public Health in the College of Pharmacy and Health Science at Campbell University. Dr. Bailey completed her PhD in environmental science and engineering from the University of North Carolina at Chapel Hill in the Gillings School of Global Public Health and then spent 2 years as a

postdoctoral research associate at the Duke Global Health Institute and School of Medicine. Dr. Bailey started her career at Texas Tech Health Sciences Center and recently joined Campbell University as a member of the public health faculty with interests in emerging infectious disease, zoonotic disease, and viral pathogens. She has considerable laboratory experience, specifically in microbiology and molecular diagnostics and teaches courses in Environmental Health and Public Health Policy.

Department of Public Health, College of Pharmacy and Health Sciences, Campbell University, Lillington, United States



Carmen Concerto 🔟 Scopus

Department of Clinical and Experimental Medicine University of Catania

Email: c.concerto@policlinico.unict.it

View Biography

**Biography of Carmen Concerto** 



Dr. Concerto completed her medical and residency training in Psychiatry from Italy. She is currently an Attending Psychiatrist at the University of Catania, Italy. She obtained an international PhD in Neuroscience in 2018 from the Department of Biomedical and Biotechnological Sciences, University of Catania, Catania, Italy and a post-doctoral

education on brain stimulation from the Seton Hall University of New Jersey, USA. Her fields of expertise are Mood Disorders, Transcranial Magnetic Stimulation, Major Depression; Resistant Depression; Internet Addiction; Complementary Alter-native Medicine; Transcranial Magnetic Stimulation (TMS); Transcranial Direct-Current Stimulation (tDCS).

Department of Clinical and Experimental Medicine, University of Catania, Catania, Italy



Luca Coppeta D Scopus' Publiqued G Department of Biomedicine and Prevention University of Rome, Tor Vergata Rome Italy

Emails: lcoppeta@gmail.com, luca.coppeta@uniroma2.it View Biography

### **Biography of Luca Coppeta**



Professor Coppeta Luca is an adjunct professor at the University of Rome, Tor Vergata, Department of Biomedicine and Prevention since April 2022. Currently, he carries out his main clinical activity at the OU of Occupational Medicine of the Tor Vergata Polyclinic in Rome as an authorized doctor. He is a member of the regional section of the Italian Society

of Occupational Medicine since 2019 with the role of secretary and participates in the activities of the company's working groups. He did Second Level Master in Epidemiology and Statistics Catholic University of Sacred Heart, Rome in 2007, he did Specialization in Occupational Medicine in 2003 from Tor Vergata University, Rome. He is associated with teaching from 2013 till date. He has been teaching and tutoring Postgraduate School of Occupational Medicine University of Rome, from 2015 till date and a lecturer of Radiation Protection at the same university. He has been involved in a number of research activities. He has been a speaker and organizer of different congresses. He received a number of awards such as "Young Researchers" Research Award. He is in the editorial board of the journal Vaccines, AS Ophthalmology journal, and Egyptian Journal of Occupational Medicine. Besides, he is also a reviewer in a number of journals such as Plos One, BMC Public Health, International Journal of Environmental Researches and Public Health etc. He has a number of publications to his credit.

Department of Biomedicine and Prevention, University of Rome, Tor Vergata, Rome, Italy



Maria S. Cotelli 🔟 Scopus' 🥂 Medicine and Surgery faculty University of Brescia Brescia Italy Email: cotellim@gmail.com View Biography

### Biography of Maria S. Cotelli



Maria Sofia Bianca Cotelli completed her degree in Medicine and Surgery from the University of Brescia. She did Specialization in Neurology from the same university. She has been working as Neurologist at ASST Valcamonica Esine (Brescia Italy) since 2013. Her main research interests are Neurodegenerative disorders, Electroencephalogram and epilepsy, and Stroke Unit. She is the author-co-author of 67 papers and book and book chapters.

Medicine and Surgery faculty, University of Brescia, Brescia, Italy



Song Ge D G School of Nursing University of Houston-Downtown Houston, TX USA Email: ges@uhd.edu View Biography

### Biography of Song Ge



Song Ge is a Registered Nurse, Community Health Worker, and Community Health Worker Instructor in Texas, US. She received BSN with honor from Emory University in 2013 and a Ph.D. from Johns Hopkins University in 2018. Song Ge was visiting faculty at Towson University Department of Nursing in 2016. Since Fall 2018, she has served as

Assistant Professor and Assistant Director of the Bachelor of Science in Nursing Program at UHD. Song Ge was inducted into Sigma Theta Tau International Honor Society of Nursing-Houston Chapter as Community Leader and Research Committee Member in 2021. Song enjoys doing research and community projects involving students and has published 19 publications with 240 Google Scholar citations. She is an invited editorial board member of Frontiers in Health Services and the International Journal of Nursing Sciences.

School of Nursing, University of Houston-Downtown, Houston, USA



Nan Hu 🕕 😉 Publiced 🕒 Department of Biostatistics University of Utah Salt Lake City, UT USA Email: nhu@fiu.edu View Biography

## · Press Release

Bentham Open Welcomes Sultan Idris University of Education (UPSI) as Institutional Member

### Description:

Bentham OPEN is pleased to welcome Sultan Idris University of

### Testimonials

"Open access will revolutionize 21st century knowledge work and accelerate the diffusion of ideas and evidence that support just in time learning and the evolution of thinking in a number of disciplines."

-Daniel Pesut. (Indiana University School of Nursing, USA).



### Biography of Nan Hu



Dr. Nan Hu got a PhD in Biostatistics from the University of Washington School of Public Health and Community Medicine and is currently an Associate Professor of Biostatistics at Florida International University Robert Stempel College of Public Health and Social Work, and an adjunct faculty in the Department of Family and Preventive Medicine, University of

Utah School of Medicine. Dr. Hu's research expertise includes study design in clinical trials and observational studies in public health and medicine, longitudinal data analysis, survival analysis, analysis of missing data. In the public health and medical fields, Dr. Hu is interested in research of cancer, cardiovascular disease, kidney disease, mental disorders, radiological studies, primary care for chronic conditions, global health, health policy research, and health services.

Department of Biostatistics, University of Utah, Salt Lake City, USA



Muhammad Irfan D Scopus' R G School of Management and Economics Beijing Institute of Technology Beiiing China

Email: irfansahar@bit.edu.cn View Biography

## Biography of Muhammad Irfan



Prof. Muhammad Irfan currently works at the School of Management and Economics, Beijing Institute of Technology. He is currently serving as Guest Editor in several International Journals (i.e., Journal of Environmental Planning and Management, Frontiers in Environmental Science, Frontiers in Energy Research, and Sustainability). He has published over 100 research articles in top-quality international journals.

School of Management and Economics, Beijing Institute of Technology, Beijing, China



Ki-il Kim 🔟 😝 Department of Computer Science and Engineering Chungnam National University

Daejeon South Korea

Email: kikim@cnu.ac.kr View Biography

# Biography of Ki-il Kim



Ki-Il Kim received the M.S. and Ph.D. degrees in computer science from the Chungnam National University, Daejeon, Korea, in 2002 and 2005, respectively. He has been associated with the Department of Computer Science and Engineering, Chungnam National University, Daejeon, Korea. Earlier, he has been serving in the Department of Informatics at Gyeongsang National University since 2006. His research interests include machine learning for networks, wireless body area networks, and health care systems.

Department of Computer Science and Engineering, Chungnam National University, Daejeon, South Korea



Suchart Kothan D Scopus Department of Radiologic Technology Chiang Mai University Chiang Mai

Thailand Email: suchart.kothan@cmu.ac.th View Biography

### **Biography of Suchart Kothan**



Dr. Suchart Kothan is currently an Associate Professor at Department of Radiologic Technology, Faculty of Associated Medical Sciences, Chiang Mai University, Thailand. He obtained his PhD in Engineering Sciences (Biological and medical engineering) from University Paris 13, France in 2004. His fields of expertise are Overweight and obesity,

Magnetic Resonance Imaging / Magnetic Resonance Spectroscopy, Polyphenol and Antioxidant, Multidrug Resistance, Radiobiology and Radiation Protection Dosimetry.

Department of Radiologic Technology, Chiang Mai University, Chiang Mai, Thailand **Contributed Articles** 

## Articles by Suchart Kothan

Distal Forearm Bone Mineral Density Among Hill Tribes in the Omkoi District, Chiang Mai Province, Thailand



An open access journal publishing under license CC-BY 4.0



- Home
- Publisher Home
- About Us
- · Editorial Board
- · Submit Manuscript
- Contact Us

Website Search...

IMPORTANT INFORMATION ₩

About the JournalBoard Recruitment WorkflowShort-guideEditorial PoliciesEnsuring Content IntegrityFAQsPublication Cycle Process FlowQuick Track Option

FOR REVIEWERS 

| FOR REVIEWERS | | |

Recr. Reviews Worldow Reviewers Guidelines

FOR GUEST EDITORS

Guidelines for Guest Editors

FOR AUTHORS ₩

Authors Space Fits Authorship Copyediting Services Corporate Membership Instructions for Authors Plagiarism Prevention Fabricating and Stating False Information Research Misconduct Post Publication Discussions and Corrections Allegations From whistleblowers Publishing Ethics and Rectitude Publication Fee Archiving Policies Special Fee Waivers and Discounts Manuscript Transfer Facility

MARKETING OPPORTUNITIES W

Advertise With UsKudosAdvertising policy

MENU =

### Effect of Different Homework on Chronic Morbidity among Single Older People

Viktor Arkhipov and Altyn Aringazina

The Open Public Health Journal, 2022; 15: e187494452112240.

Electronic Publication Date: February 03, 2022

View Abstract View Fulltext HTML Download PDF Download ePub

• RESEARCH ARTICLE



<u>Participatory Development in Community Health for the Pgazkoenyau Ethnic: A Case Study in an Ethnic Community in Thailand</u>

Rungrueng Kitphati, Khampon Seangkeao, Kamolnat Muangyim and Worayuth Nak-ai

**The Open Public Health Journal**, 2022; 15: e187494452201040.

Electronic Publication Date: February 04, 2022

View Abstract View Fulltext HTML Download PDF Download ePub

• RESEARCH ARTICLE



Student Nurses Attitudes Towards Using Social Media to Raise the Awareness of their Community about the COVID-19 Pandemic in Jordan

Noha Al-Shdayfat, Ahlam Alnatour, Raya Alhusban, Dalal Yehia, Najah M Al-shanableh, Arwa Alsaraireh and Ja'far M. Alkhawaldeh

**The Open Public Health Journal**, 2022; 15: e187494452201120.

Electronic Publication Date: February 04, 2022

View Abstract View Fulltext HTML Download PDF Download ePub

RESEARCH ARTICLE



<u>Seroprevalence of SARS-CoV-2 Antibodies and its Risk Factors in the North-West of Iran: A Population-Based Cross-Sectional Study</u>

Hamed Zandian, Telma Zahirian Moghadam, Shahram Habibzadeh and Farhad Pourfarzi

Tanti Belinda Candrawati, Inggrid Galuh Mustikawati and Endah Wulandari

The Open Public Health Journal, 2022; 15: e187494452209200.

Electronic Publication Date: November 04, 2022

View Abstract View Fulltext HTML Download PDF Download ePub

RESEARCH ARTICLE

### Computer-digital Vision Syndrome Among University Students of Lima City

Elian Fernando Lindo-Cano, Vania Andrea García-Monge, Kevin Junior Castillo-Cadillo, Evelyn Andrea Sánchez-Tirado, Ingry Marilyn Távara and Juan Morales

The Open Public Health Journal, 2022; 15: e187494452208104.

Electronic Publication Date: November 08, 2022

View Abstract View Fulltext HTML Download PDF Download ePub

RESEARCH ARTICLE



## **Information Consumption During Covid – 19**

Helial Alomiry

The Open Public Health Journal, 2022; 15: e187494452208101.

Electronic Publication Date: November 08, 2022 View Abstract View Fulltext HTML Download PDF Download ePub

• RESEARCH ARTICLE



## Principles of Forming a Strategy for Reducing the Psychological Tension of Social Network Users

Aida Khakimova, Oleg Zolotarev and Igor Zatsman

The Open Public Health Journal, 2022; 15: e187494452208185.

Electronic Publication Date: November 10, 2022

View Abstract View Fulltext HTML Download PDF Download ePub

RESEARCH ARTICLE



The Relationship between Social Support and Hopelessness among Iranian Students during Coronavirus disease 2019 (COVID-19) Pandemic

Negar Hajinasab, Mehrnegar Amiri, Mahnaz Sharifi, Tayebe Sanati, Zari Dolatabadi and Leila Amiri-Farahani

The Open Public Health Journal, 2022; 15: e187494452209290.

Electronic Publication Date: November 22, 2022

View Abstract View Fulltext HTML Download PDF Download ePub

RESEARCH ARTICLE

<u>Personal and Environmental Risk Factors of Work-Related Stress: A Cross-Sectional Study among Female Workers of a Textile Industry in Indonesia</u>

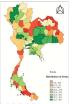
Haris Setyawan, Hanifa M. Denny, Nurjazuli Nurjazuli and Endah Kumala Dewi

The Open Public Health Journal, 2022; 15: e187494452210190.

Electronic Publication Date: November 23, 2022

View Abstract View Fulltext HTML Download PDF Download ePub

RESEARCH ARTICLE



# Spatial Association Between Sociodemographic, Environmental Factors and Prevalence of Stroke Among Diabetes and Hypertension Patients in Thailand

Krittiyanee Thammasarn, Wongsa Loahasiriwong, Roshan Kumar Mahato and Kittipong Sornlom

**The Open Public Health Journal**, 2022; 15: e187494452210191.

Electronic Publication Date: December 02, 2022

View Abstract View Fulltext HTML Download PDF Download ePub

### RESEARCH ARTICLE

### Knowledge and Attitudes toward Electronic Cigarette Smoking: A Survey of School Male Adolescents in Jordan

Nesrin N. Abu-Baker, Tharaa Ananzeh, Hanan Al Modallal, Ghada M. Shahror and Biaan B. Amarneh

The Open Public Health Journal, 2022; 15: e187494452212051.

Electronic Publication Date: December 07, 2022

View Abstract View Fulltext HTML Download PDF Download ePub

## • RESEARCH ARTICLE



# <u>Factors Influencing Optimal Glucose Control among Type II Diabetes Patients: From the Health Behaviour Models' Perspective</u>

Eslavath Rajkumar, GT Kruthika, Padiri Angiel Ruth, R Lakshmi, Daniel Monica, John Romate and Abraham John

The Open Public Health Journal, 2022; 15: e187494452209020.

Electronic Publication Date: December 08, 2022

View Abstract View Fulltext HTML Download PDF Download ePub

### RESEARCH ARTICLE

## **Developments in Glioblastoma-Specific Molecular Treatment**

Arun Kumar Singh, Rishabha Malviya, Swati Verma and Sonali Sundram

**The Open Public Health Journal**, 2022; 15: e187494452210313.

Electronic Publication Date: December 12, 2022

View Abstract View Fulltext HTML Download PDF Download ePub

# RESEARCH ARTICLE

# Stress Coping Styles in Family and Relatives of Coronavirus Disease 2019 (COVID-19) Patients in the South of Iran: Application of Lazarus and Folkman's Theory of Stress Coping

Reza Faryabi, Tahereh Rahimi, Salman Daneshi, Ehsan Movahed, Ali Reza Yusefi, Mohadeseh Shojaei Shahrokhabadi, Ding-Geng (Din) Chen, Saeedeh Azaraeen and Cain C. T. Clark

**The Open Public Health Journal**, 2022; 15: e187494452209210.

Electronic Publication Date: December 12, 2022

View Abstract View Fulltext HTML Download PDF Download ePub

## • RESEARCH ARTICLE



## A Retrospective Analysis of American Dietitian Financial Donations to Political Parties

Stephen Ryan Pierson, Travis Kozak, Liane Le and Hiba Shaikh

**The Open Public Health Journal**, 2022; 15: e187494452210140.

Electronic Publication Date: December 12, 2022

View Abstract View Fulltext HTML Download PDF Download ePub

### RESEARCH ARTICLE

# The Effectiveness of Impact of Physical Activity on the Thinking Indicators of School Children



Content list available at: https://openpublichealthjournal.com



# RESEARCH ARTICLE

# The Relationship between Social Support and Hopelessness among Iranian Students during Coronavirus disease 2019 (COVID-19) Pandemic

Negar Hajinasab<sup>1</sup>, Mehrnegar Amiri<sup>2</sup>, Mahnaz Sharifi<sup>3</sup>, Tayebe Sanati<sup>4</sup>, Zari Dolatabadi<sup>3</sup> and Leila Amiri-Farahani<sup>5,\*</sup>

### Abstract:

### Background:

The coronavirus disease 2019 (COVID-19) pandemic has major consequences for public health worldwide, especially for mental health. Hope is a dynamic motivational system that empowers one to achieve goals. Social support similarly increases the feeling of well-being to cope with hopelessness. The present study was conducted to determine the relationship between social support and hopelessness in students studying at the Iran University of Medical Sciences during the COVID-19 pandemic considering the importance of performance in medical sciences students.

### Methods

This cross-sectional study was performed continuously for five months, from January to May 2021, at the Iran University of Medical Sciences, Tehran, Iran, where the Persian language is predominantly spoken. Participants were included if they could consent to participate in the study and internet access and membership in social networks. Those who did not fully engage with our data collection tools were excluded. A demographic information form, the Beck Hopelessness Scale (BHS), and the Multidimensional Scale of Perceived Social Support (MPSS) were provided to students via social networks. After students (n=300) completed the questionnaires, data were analyzed through SPSS software version 21.

### Results:

The mean age of participants was 23.46 (18-51) years. The mean score of hopelessness among the participants was 6.2. The majority of students (35%) had mild hopelessness, 34.7% had a minimum level of hopelessness, 26.7% had a moderate level of hopelessness, and 11% had a high level of hopelessness. The mean social support score was 59.49, with 52.3% of students having a high level of social support. The correlation coefficient between social support and hopelessness was -0.401 (p <0.001). Field of study, degree level, marital status and lifestyle were significantly correlated with hopelessness. Also, only marital status had a significant relationship with social support among students. The results of multiple linear regression analysis showed that out of the variables included in the model, only the variable of social support had a significant effect on the hopelessness score, so this variable predicted 18% of the hopelessness score.

### Conclusion:

Given the inverse relationship between social support and hopelessness, it is suggested to increase the level of social support for students to improve their sense of hopelessness.

Keywords: Social support, Hopelessness, COVID-19, Students, Iran, Pandemic, Public health.

Article History Received: May 12, 2022 Revised: June 9, 2022 Accepted: August 4, 2022

# 1. INTRODUCTION

The 2019 Coronavirus (COVID-19) pandemic has created a global health burden that has had major implications for

public health worldwide. COVID-19 is a pneumonia-like disease that emerged from the Coronavirus in November 2019 in Wuhan, the capital of Hubei Province, China [1]. Since the beginning of the COVID-19 outbreak, most governments have sought to slow the spread of infection through emergency measures, including public shutdowns, travel cuts, and house quarantine, which resulted in social isolation [2, 3].

<sup>&</sup>lt;sup>1</sup>BSc in Midwifery, Student Research Committee, Iran University of Medical Sciences, Tehran<mark>,</mark> Iran

<sup>&</sup>lt;sup>2</sup>MSc in Nursing, Student Research Committee, Iran University of Medical Sciences, Tehran, Iran

<sup>&</sup>lt;sup>3</sup>MSc in Midwifery, Department of Reproductive Health and Midwifery, School of Nursing and Midwifery, Iran University of Medical Sciences, Tehran Iran

<sup>&</sup>lt;sup>4</sup>MSc in Elderly Health, Elderly Health Research Center, Shahid Sadoughi University of Medical Sciences, Yazd, Iran

<sup>&</sup>lt;sup>5</sup>Ph.D. in Reproductive Health, Nursing and Midwifery Care Research Center, Department of Reproductive Health and Midwifery, School of Nursing and Midwifery, Iran University of Medical Sciences, Tehran, Iran

<sup>\*</sup> Address correspondence to this author at the Department of Reproductive Health and Midwifery, Nursing Care Research Center, School of Nursing and Midwifery, Iran University of Medical Sciences, Tehran, Iran; Tel: +98.2143651139; Fax: +98.2143651800; E-mail: l.amirifarahani@gmail.com



Content list available at: https://openpublichealthjournal.com



# RESEARCH ARTICLE

# Principles of Forming a Strategy for Reducing the Psychological Tension of Social Network Users

Aida Khakimova<sup>1,\*</sup>, Oleg Zolotarev<sup>2</sup> and Igor Zatsman<sup>3</sup>

### Abstract:

### Aims.

The purpose of the study was to develop principles of a strategy for influencing the psychological state of social network users using the example of the Russian-language segment of Twitter, one of the reasons for which is the lack of awareness about aspects of the coronavirus infection.

### Background:

In contrast to the existing works on mood management and Emotion Regulation Strategies, there are principles based not on emotional regulation (cognitive reappraisal and expressive suppression), but on information processing of the content of social media messages and forums.

### Objective:

The objective of the study was to develop principles of a strategy for reducing the psychological tension of social network users (further – Strategy) based on the Russian-language segment of Twitter.

### Methods:

The proposed research methodology includes a study of the discussion field in the active forum of the Runet (the qualitative aspect of emotionality as a reflection of psychological tension) and the Russian-language segment of Twitter (the quantitative aspect of terminology frequency). The qualitative research consisted in isolating the sensitive words used by vaccine opponents to describe their beliefs. A multi-stage methodology has been developed for the meaningful analysis of Twitter users' messages.

### Results:

. The result of the study is a methodology for developing principles of the Strategy. Based on this methodology, the following aspects of the problem have been developed: 1) the principle of clarifying the definition of psychological tension; 2) the principle of comparing the user and scientific meanings of terms, taking into account the contexts of their use; 3) the principle of contextual comparison of the user's and scientific meanings of the term; 4) the principle of visual popularization of scientific knowledge.

### Conclusion:

An original methodology was created for developing principles of the Strategy. In contrast to the existing works on mood management and Emotion Regulation Strategies, there are principles based not on emotional regulation (cognitive reappraisal and expressive suppression [1]), but on information processing of the content of social media messages and forums.

### Other:

A new approach to reducing the psychological tension of social media users can contribute to sharing timely, accurate and positive information about COVID-19, and reduce excessive discussions about COVID-19, which can positively affect the psychological well-being of the general public.

Keywords: Twitter, Anti-vaxxers, Vaccine, Vaccination, COVID-19, PCR testing, Emotional regulation.

Article History Received: April 15, 2022	Revised: May 5, 2022	Accepted: June 17, 2022
--	----------------------	-------------------------

<sup>&</sup>lt;sup>1</sup>Department of Development of Scientific and Innovation Activities, Russian New University, Moscow, Russia

<sup>&</sup>lt;sup>2</sup>Information Systems In Economics And Control, Russian New University, Moscow, Russia

<sup>&</sup>lt;sup>3</sup>Research Department, Institute of Informatics Problems FRC CSC RAS, Moscow, Russia



Content list available at: https://openpublichealthjournal.com



# RESEARCH ARTICLE

# Spatial Association Between Sociodemographic, Environmental Factors and Prevalence of Stroke Among Diabetes and Hypertension Patients in Thailand

Krittiyanee Thammasarn<sup>1</sup>, Wongsa Loahasiriwong<sup>2,\*</sup>, Roshan Kumar Mahato<sup>2</sup> and Kittipong Sornlom<sup>3</sup>

### Abstract:

### Background:

Stroke is one of the top leading causes of death and disability among adults and the elderly worldwide. Hypertension (HT) and Diabetes Mellitus (DM) are the most common contributory risk factors of stroke, accounting for up to 75% of all cases. This study aimed to investigate the spatial association between sociodemographic and environmental factors and the prevalence of stroke among DM and HT patients in Thailand.

This spatial study applied global Moran's I, the local indicators of spatial association (LISA) and spatial regression to examine the localised associations of sociodemographic and environmental factors and the prevalence of stroke among DM and HT patients in Thailand.

The univariate Moran's I scatter plot of the annual prevalence of stroke in Thailand's provinces observed significant positive spatial autocorrelation with the Moran's I value of 0.454 (p < 0.05). The High-High clusters of strokes were mostly located in the center. The Bivariate Moran's I indicated a spatial association between various factors and the prevalence of stroke in which the LISA analysis indicated; 16 Hot-spots or High-High clusters (HH) and 4 Cold-spot or low-low clusters (LL) with alcohol store density, 17 HH and 4 LL clusters with tobacco store density, 9 HH and 9 LL clusters with elderly population density, 5 HH and 3 LL clusters of primary care per population ratio, 16 HH and 3 LL clusters with LST, and 10 HH and 5 LL clusters with NTL. The Spatial Error Model (SEM) of spatial regression analysis has been observed to be the best model that could predict the variation in the prevalence of stroke by 50.80% (R2=0.508). SEM indicated tobacco store density (coefficient=0.065, P<0.05), elderly population density (coefficient=0.013, P<0.001, LST (day) (coefficient=1.417, P<0.05), and NTL (coefficient=0.021, P<0.05) were statistically significant associated with the prevalence of stroke among DM and HT patients in Thailand.

## Conclusion:

Our study observed that the distribution of alcohol stores, density of tobacco stores, concentration of older adults, increasing day temperature and density of NTL were likely to be associated with enhancing the prevalence of stroke in the cluster and neighboring provinces of Thailand. The findings of this study will benefit public sectors or related organizations to develop efficient measures to control stroke.

Keywords: Stroke, Spatial analysis, Socioeconomic and environmental factors, Diabetes, Hypertension, Temperature.

**Article History** Received: July 6, 2022 Revised: September 8, 2022 Accepted: September 19, 2022

# 1. INTRODUCTION

Stroke is the commonest cause of death and adult disability worldwide [1]. According to the Global Burden of Diseases, Injuries, and Risk Factors Study (GBD) 2017 data, stroke ranks third among all causes of death and disability (as measured by

disability-adjusted life-years (DALYs) [2]. In addition, it was the second most common cause of death worldwide in 2017 [2]. Between 1990 and 2017, the prevalence of stroke increased by 11% in upper-middle-income countries (from 1.40 to 1.55%), while it decreased by 3% (from 1.03 to 1.00%) and 8% (from 1.26 to 1.16%) in low- and high-income countries, respectively [1 - 3]. However, the prevalence of stroke remained unchanged in lower-middle-income countries (1.08%) [2]. In 2018, it was estimated that 13.7 million people

<sup>&</sup>lt;sup>1</sup>Doctor of Public Health Program, Faculty of Public Health, Khon Kaen University, Khon Kaen Thailand

<sup>&</sup>lt;sup>2</sup>Faculty of Public Health, Khon Kaen University, Khon Kaen, Thailand

<sup>&</sup>lt;sup>3</sup>Faculty of Public Health, Khon Kaen University, Khon Kaen, Thailand

<sup>\*</sup> Address correspondence to this author at the Faculty of Public Health, Khon Kaen University, Khon Kaen, 40000, Thailand; Tel: +66-8-7373-1199; E-mail: drwongsa@gmail.com

1



# The Open Public Health Journal

Content list available at: https://openpublichealthjournal.com



# RESEARCH ARTICLE

# Factors Influencing Optimal Glucose Control among Type II Diabetes Patients: From the Health Behaviour Models' Perspective

Eslavath Rajkumar<sup>1,\*</sup>, GT Kruthika<sup>1</sup>, Padiri Angiel Ruth<sup>2</sup>, R Lakshmi<sup>1</sup>, Daniel Monica<sup>1</sup>, John Romate<sup>1</sup> and Abraham John<sup>3</sup>

### Abstract:

### Background:

Diabetes is a global health issue and one of the top ten causes of mortality, requiring focused research for understanding and implementing appropriate methods of diabetes management. Among the many approaches to managing optimal glucose control, embarking on the factors that influence engaging in health behaviours, such as managing glucose control, plays a pertinent role in addressing effective glucose control management.

## Objective:

The present study has attempted to understand the influence of various factors (at the individual level and social level) on optimal glycemic control, which is considered one of the efficient parameters of diabetes management, utilizing the predominant health behaviour models- health belief model, theory of planned behaviour and socio-ecological model.

### Methods:

This correlation study was conducted among 266 individuals from the Indian state of Karnataka. The purposive sampling technique was adopted to select participants over 18 years and those suffering from Type II diabetes.

### Results:

The Pearson correlation analysis showed a significant positive relationship between perceived severity and HbA1c value and a inverse correlation with interpersonal relations and community domains. The multiple linear regression analysis results showed the statistically significant predictors of perceived severity, perceived benefits and interpersonal domains on glucose control.

### Conclusion:

The study results put forward the influence of individual-level factors such as perceived severity, perceived benefits, and interpersonal factors in achieving optimal glucose control among type II diabetes patients. The study also highlights the importance of creating more awareness, especially in the Indian context with very low health literacy, which could help enhance the perceived benefits of diabetes specific health behaviours.

Keywords: Health belief model, Theory of planned behaviour, Socio-ecological theory, Glucose-control (HbA1c), Diabetes, Behaviours.

Article History Received: March 3, 2022 Revised: March 31, 2022 Accepted: May 19, 2022

## 1. INTRODUCTION

Diabetes is a serious, chronic medical condition that impacts different aspects of an individual's life. Globally, it is

counted as a significant health issue that has the potential of reaching epidemic proportions [1]. At a global level, four million deaths were reported in 2017, ranking it among the top ten causes of death among the adult population. The incremental rise in the number of diabetes cases is estimated to cross 578 million by 2030 and reach 700 million by 2045, if the trend continues [2].

<sup>&</sup>lt;sup>1</sup>Department of Psychology, Central University of Karnataka, Kalaburagi India

<sup>&</sup>lt;sup>2</sup>Department of Applied Psychology, Central University of Tamil Nadu, Thiruvarur, India

<sup>&</sup>lt;sup>3</sup>St. John's Medical College, Bangalore, Karnataka, India

<sup>\*</sup> Address correspondence to this author at the Department of Psychology, Central University of Karnataka, Kalaburagi, Karnataka, India; Tel: +917259209285; E-mail: rajkumare@cuk.ac.in



# KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI

# UNIVERSITAS JENDERAL SOEDIRMAN

## FAKULTAS ILMU-ILMU KESEHATAN

Jalan dr. Soeparno Grendeng Purwokerto 53122 Telepon (0281) 6572772 Faksimile 6572772

E-mail: fikes@unsoed.ac.id Website: fikes.unsoed.ac.id

# PERSETUJUAN ETIK (ETHICAL APPROVAL) No : 529/EC/KEPK/VIII/2021

Judul Usulan Penelitian

Title of research proposal

: Pengaruh Variasi Bahan Peredam Suara Terhadap Intensitas Kebisingan dan Tingkat Stres Kerja pada Tenaga Kerja Industri Tekstil

Peneliti Utama

Haris Setyawan

Principle Investigator

Incipie investigator

Anggota Tim Peneliti

Members of research team

: - Hanifa M. Denny, S.KM., M.PH., Ph.D.

Dr. Nurjazuli, S.KM, M.Kes.

- Dr. Dra. Endah Kumala Dewi, M.Kes.

Institution

Universitas Diponegoro Semarang

Dokumen yang disetujui Documents approved

: Proposal Penelitian

Tanggal Persetujuan

: 18 Agustus 2021

Date of approval

Komisi Etik Penelitian Kesehatan Fakultas Ilmu-ilmu Kesehatan UNSOED menyatakan bahwa protokol penelitian tersebut telah memenuhi kaidah etik yang tertera dalam Deklarasi Helsinki 2008 dan dapat dilaksanakan. Komisi Etik Penelitian berhak memantau kegiatan penelitian tersebut sewaktu-waktu.

The Research Ethics Committee states that the above protocol meets the ethical principle outlined in the Declaration of Helsinki 2008 and therefore can be carried out. The Committee has the right to monitor the research activities at any time.

Para peneliti bertanggungjawab menyerahkan:

The investigator(s) is/are obliged to submit:

☐ Laporan kemajuan jika diperlukan telaah lebih lanjut Progress report in case a continuing review is needed

□ Laporan kejadian yang tidak diinginkan Report of any cases of Serious Adverse Event (SAE)

☑ Laporan akhir

Final report upon the completion of the study

Dokumen ini berlaku untuk 1 (satu) tahun terhitung sejak tanggal disetujui.

This document is valid for one year beginning from the date of approval.

Ketua Komisi Etik Penelitian,

Made Sumarwati, S.Kp., M.N. NIP 196812021993032001