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Int. J. Environ. Res. Public Health 2023, 20(5), 4605; https://doi.org/10.3390/ijerph20054605 (registering DOI) - 05 Mar 2023

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by Qi Xu and Salim Khan

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<u>Abstract</u> The discussion about whether research and development and advanced energy structure can efficiently control pollution has gained the consideration of researchers across the globe. However, there is a lack of enough empirical and theoretical evidence to support this phenomenon. To offer support of [...] <u>Read more.</u>

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<u>Abstract</u> Since the beginning of March 2022, a new round of COVID-19 outbreaks in Shanghai has led to a sharp increase in the number of infected people. It is important to identify possible pollutant transmission routes and predict potential infection risks for infectious diseases. [...] <u>Read more.</u> (This article belongs to the Special Issue <u>Air Quality: Outdoor and Indoor (/journal/ijerph/special_issues/6LFG272AM3</u>))

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Int. J. Environ. Res. Public Health 2023, 20(5), 4601; https://doi.org/10.3390/ijerph20054601 (registering DOI) - 05 Mar 2023

<u>Abstract</u> Evidence highlights the need for professionals to be aware of their stigmatizing attitudes and discriminatory practices in order to minimize the negative impact on the people they take care of. However, nursing students' perceptions of these issues have been poorly studied. This study [...] <u>Read more.</u> (This article belongs to the Special Issue <u>Literacy, Self-Care and Mental Health: Assessment and Intervention (</u> /journal/ijerph/special_issues/literacy_selfcare_mental_health_assessment_intervention))

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 <u>Vladimíra Štefancová (https://sciprofiles.com/profile/1949889)</u> and
 <u>Hana Brůhová Foltýnová (https://sciprofiles.com/profile/1604303)</u>
 Int. J. Environ. Res. Public Health 2023, 20(5), 4600; https://doi.org/10.3390/ijerph20054600 (registering DOI) - 05 Mar 2023

<u>Abstract</u> At the beginning of 2020 there was a spinning point in the travel behavior of people around the world because of the pandemic and its consequences. This paper analyzes the specific behavior of travelers commuting to work or school during the COVID-19 pandemic [...] Read more.

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Int. J. Environ. Res. Public Health 2023, 20(5), 4599; https://doi.org/10.3390/ijerph20054599 (registering DOI) - 05 Mar 2023

<u>Abstract</u> Providing early lung transplantation referral services should be considered to reduce pre-transplant mortality in patients with advanced disease. This study aimed to explore the reasons for lung transplantation referral decisions in patients and provide evidence for the development of transplantation referral services. This [...] Read more.

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Abstract The burnout rate among physicians is expected to be higher during COVID-19 period due to the additional sources of physical and emotional stressors. Throughout the current COVID-19 pandemic, numerous studies have evaluated the impacts of COVID-19 on physicians' burnout, but the reported results [...] Read more.

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<u>Yifang Wang (https://sciprofiles.com/profile/2517895)</u>

Int. J. Environ. Res. Public Health 2023, 20(5), 4596; https://doi.org/10.3390/ijerph20054596 (registering DOI) - 05 Mar 2023

Abstract Kindergarten teachers' quality of work life (QWL) is of great significance in ensuring teacher stability, improvement in education quality, and the development of education. This study used the newly developed and validated tool, the QWL scale for kindergarten teachers (QWLSKT) to investigate QWL

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Evolutions of Self-Rated Health and Social Interactions during the COVID-19 Pandemic Affected by Pre-Pandemic Conditions: Evidence from a Four-Wave Survey (/1660-4601/20/5/4594)

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<u>Abstract</u> The Coronavirus disease 2019 (COVID-19) pandemic has affected individuals' self-rated health (SRH) and social interactions, but their evolution during the pandemic needs further investigation. The present study addressed this issue using longitudinal data from 13,887 observations of 4177 individuals obtained from a four-wave [...] Read more.

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by Eleanor A. Medley (/search?authors=Eleanor%20A.%20Medley&orcid=0000-0002-1331-6237) et al.

Int. J. Environ. Res. Public Health 2023, 20(3), 2114; https://doi.org/10.3390/ijerph20032114 (https://doi.org/10.3390/ijerph20032114) Published: 24 January 2023



(/1660-4601/20/3/2114)

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Does Lactate-Guided Threshold Interval Training within a High-Volume Low-Intensity Approach Represent the "Next Step" in the Evolution of Distance Running Training? (/1660-4601/20/5/3782)

by Arturo Casado (/search?authors=Arturo%20Casado&orcid=0000-0001-7668-6844) et al.

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Prof. Dr. Youfa Wang *

<u>Website (http://ghi.xjtu.edu.cn/en/info/1014/1131.htm)</u> <u>SciProfiles (https://sciprofiles.com/profile/2319677)</u> Section Associate Editor

Global Health Institute and School of Public Health, Xi'an Jiaotong University, Xi'an 710061, China

Interests: obesity and chronic disease prevention and control; health disparities; nutritional epidemiology; health promotion; global health * Section: Health Behavior, Chronic Disease and Health Promotion

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Dr. David Berrigan *

Website (https://staffprofiles.cancer.gov/brp/prgmStaffProfile.do?contactId=1456)

SciProfiles (https://sciprofiles.com/profile/244332)

Section Editor-in-Chief

Division of Cancer Control and Population Sciences, Behavioral Research Program, National Cancer Institute, 9609 Medical Center Drive MSC 7344, Bethesda, MD 20892, USA

Interests: cancer prevention; built environment; physical activity; obesity; energy balance; natural experiments; transportation and health; acculturation; geospatial approaches to cancer control; childhood obesity

* Section: Health Behavior, Chronic Disease and Health Promotion

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Prof. Dr. Alan Apter

<u>Website (https://www.idc.ac.il/en/pages/faculty.aspx?username=aalan)</u> <u>SciProfiles (https://sciprofiles.com/profile/617533)</u> Editorial Board Member

Department of Psychological Medicine, Schneider Children's Medical Center of Israel, Petah Tikva 4920235, Israel

Interests: suicide; children; adolescents; depression; Tourette syndrome

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Prof. Dr. Shyamali Dharmage

Website (https://findanexpert.unimelb.edu.au/profile/3474-shyamali-dharmage#tab-research)

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Allergy and Lung Health Unit, University of Melbourne, Parkville 3010, Australia

Interests: epidemiology; respiratory medicine; chronic obstructive pulmonary disease (COPD); asthma; allergy; risk factors Accept (/accept cookies)

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Dr. Hank Eves

Website (https://www.birmingham.ac.uk/staff/profiles/sportex/eves-frank.aspx)

SciProfiles (https://sciprofiles.com/profile/829577)

Editorial Board Member

School of Sport, Exercise and Rehabilitation Sciences, University of Birmingham, Birmingham B15 2TT, UK **Interests:** health psychology; environmental psychology; lifestyle physical activity; physical activity interventions



Prof. Dr. Gregory W. Heath

<u>Website1 (https://www.utc.edu/health-education-and-professional-studies/health-and-human-performance/graduate-programs/master-of-public-health/faculty-and-staff)</u> <u>SciProfiles (https://sciprofiles.com/profile/2206953)</u>

Editorial Board Member

Department of Health and Human Performance, University of Tennessee at Chattanooga, Chattanooga, TN 37403, USA **Interests:** physical activity epidemiology; NCD prevention; physical activity interventions

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Prof. Dr. Michael Hendryx

<u>Website (https://publichealth.indiana.edu/research/faculty-directory/profile.html?user=hendryx)</u> <u>SciProfiles (https://sciprofiles.com/profile/479174)</u>

Editorial Board Member

Department of Environmental and Occupational Health, Indiana University, Bloomington, IN 47405, USA **Interests:** health disparities; environmental justice; environmental exposures; Appalachia; public health effects of coal mining



Prof. Dr. Steven Stack

Website (https://clasprofiles.wayne.edu/profile/aa1051)

Editorial Board Member

College of Liberal Arts & Sciences, Wayne State University, 4841 Cass Avenue, Detroit, MI 48201, USA

Interests: social risk & protective factors for suicide; culture of suicide; suicide acceptability; media and suicide; religion and suicide; economic strain and suicide; marital strain and suicide; temporal patterns and suicide; cross-national analysis of suicide



Dr. Evangelos C. Alexopoulos

<u>Website (https://www.researchgate.net/profile/Evangelos-Alexopoulos-2)</u> <u>SciProfiles (https://sciprofiles.com/profile/9295)</u> Section Board Member

Alexopoulos Evangelos Medical PC, Ellispontou 11, 156 69 Athens, Greece

Interests: cookiestion of air web site lovers wellow get free statistics per tense in a lover of the statistic stress management; environmental health; prevention of the bottles of the (about/privacy).

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Prof. Dr. Todd Astorino

Wessite https://faculty.csusm.edu/tastorino/index.html) SciProfiles (https://sciprofiles.com/profile/772874) Section Board Member

Department of Kinesiology, California State University, San Marcos, CA 92096, USA **Interests:** interval training; VO2max; metabolism; spinal cord injury



Dr. Maansi Bansal-Travers

★ (<u>https://recognition.webofscience.com/awards/highly-cited/2021/</u>) Website (<u>https://www.roswellpark.org/maansi-bansal-travers</u>) SciProfiles (<u>https://sciprofiles.com/profile/41155</u>)

Section Board Member

Department of Health Behavior, Roswell Park Comprehensive Cancer Center, Buffalo, NY 14263, USA

Interests: tobacco; smoking; communication; marketing; packaging; health warnings; electronic nicotine products; consumer perceptions; surveillance; point of sale

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Prof. Dr. Victoria Banyard

<u>Website (https://socialwork.rutgers.edu/faculty-staff/victoria-banyard-0)</u> <u>SciProfiles (https://sciprofiles.com/profile/1661246)</u> Section Board Member

School of Social Work, Rutgers University, New Brunswick, NJ, USA

Interests: prevention; violence; resilience; relationship and sexual violence prevention; program evaluation



Dr. Franca Barbic

Website (https://www.hunimed.eu/member/franca-barbic/) SciProfiles (https://sciprofiles.com/profile/487443)

Section Board Member

1. Department of Biomedical Sciences, Humanitas University, 20090 Pieve Emanuele, Milan, Italy

2. Internal Medicine, Humanitas Clinical and Research Center - IRCCS, 20089 Rozzano, Milan, Italy

Interests: occupational and environmental health; cardiovascular autonomic nervous system and work ability; shift work; sleep disorders;

syncope and orthostatic intolerance syndromes; heart rate, blood pressure and respiratory activity variability

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Prof. Dr. Margo Barker

Website (https://www.shu.ac.uk/about-us/our-people/staff-profiles/margo-barker)

SciProfiles (https://sciprofiles.com/profile/733817)

Section Board Member

Food and Nutrition Group, Department of Service Sector Management, Sheffield Business School, Sheffield Hallam University, S1 1WB Sheffield, UK

Interests: food choice; diet; nutrition; epidemiology; public health

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Prof. Dr. Heiko Becher

Wessite https://www.uke.de/english/departments-institutes/institutes/medical-biometry-and-epidemiology/team/index.html) SciProfiles (https://sciprofiles.com/profile/433025)

Sec**ien** Board Member

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Department of Medical Biometry and Epidemiology, University Medical Center Hamburg-Eppendorf, 20246 Hamburg, Germany **Interests:** social epidemiology; migrant research; stroke; cancer; statistical methods in epidemiology

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Dr. Katy J. L. Bell

<u>Website (https://www.sydney.edu.au/medicine-health/about/our-people/academic-staff/katy-bell.html#collapseprofilekeywords)</u> <u>SciProfiles (https://sciprofiles.com/profile/2508173)</u>

Section Board Member

Sydney School of Public Health, Faculty of Medicine and Health, University of Sydney, Sydney 2006, Australia

Interests: evidence-based health policy; decarbonisation of health care; clinical epidemiology; health services research; health technology assessment; screening and diagnostic test evaluation; medical overuse; overdiagnosis



Dr. Francesco Bellanti

Website (https://www.unifg.it/ugov/person/3397) SciProfiles (https://sciprofiles.com/profile/602870)

Section Board Member

Department of Medical and Surgical Sciences, Institute of Internal Medicine, University of Foggia, 71029 Foggia, Italy **Interests:** redox biology; mitochondria; senescence; translational research; stem cells



Prof. Dr. Karen A. Bonuck

Website (https://www.einstein.yu.edu/faculty/4758/karen-bonuck/)

Section Board Member

Department of Family Medicine, Albert Einstein College of Medicine, 1300 Morris Park Ave, Bronx, NY 10461, USA **Interests:** pediatric sleep health; pediatric sleep problems; early childhood feeding; early childhood sleep; developmental disabilities



Dr. Alberto Borraccino

<u>Website (https://dssppen.campusnet.unito.it/do/docenti.pl/Show?_id=aborracc#tab)</u> <u>SciProfiles (https://sciprofiles.com/profile/1142140)</u>

Section Board Member

Department of Public Health and Paediatrics, University of Torino, 10126 Torino, Italy

Interests: public health; programme planning and evaluation; health promotion; health education; adolescents health; quantitative methods; qualitative approaches in research

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Section Board Member

Dependent of Social Medicine, CAPHRI Research School, Maastricht University, P.O. Box 616, 6200 MD Maastricht, The Netherlands Interests: socioeconomic determinants of health; psychosocial factors and health; quantitative research methods; life-course epicemiology; type 2 diabetes; quality of life; social participation Q



Dr. Soufiane Boufous

<u>Website (http://www.tars.unsw.edu.au/staffdirectory/boufous.html)</u> <u>SciProfiles (https://sciprofiles.com/profile/157398)</u> Section Board Member

Transport and Road Safety (TARS) Research, School of Aviation, University of New South Wales (UNSW), Sydney, Australia **Interests:** road safety; data linkage; injury prevention; transport crashes in the media; burden of road trauma



Dr. Stergios Boussios

<u>Website (https://www.linkedin.com/in/stergios-boussios-89238883/)</u> <u>SciProfiles (https://sciprofiles.com/profile/554800)</u> Section Board Member

- 1. Faculty of Life Sciences & Medicine, School of Cancer & Pharmaceutical Sciences, King's College London, London SE1 9RT, UK
- 2. Medway NHS Foundation Trust, Windmill Road, Gillingham, Kent ME7 5NY, UK
- 3. Kent Medway Medical School, University of Kent, CT2 7LX, Canterbury, Kent, UK
- 4. AELIA Organization, 9(th)Km Thessaloniki-Thermi, 57001 Thessaloniki, Greece

Interests: ovarian cancer; cervical cancer; carcinoma of unknown primary; prostate cancer, renal cancer, colorectal cancer; cancer in pregnancy; metastatic spinal cord compression; cancer and autoimmune diseases

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Prof. Dr. Deborah J. Bowen

<u>Website (http://depts.washington.edu/hserv/faculty/Bowen_Deborah)</u> <u>SciProfiles (https://sciprofiles.com/profile/502859)</u> Section Board Member

Department of Bioethics and Humanities, University of Washington, Seattle, WA 98195, USA

Interests: cancer prevention; community intervention; health behavior change

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Prof. Dr. Carmela Bravaccio

Website

(https://www.docenti.unina.it/#!/professor/4341524d454c4142524156414343494f425256434d4c36384835304638333957/curriculum) SciProfiles (https://sciprofiles.com/profile/1295166)

Section Board Member

Department of Translational Medicine, Federico II University, 80131 Naples, Italy

Interests: autism; child psychiatric; Rett syndrome; depression; psychofarmacology in children

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Prof. Dr. Arthur L. Brody

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Section Board Member

- 1. Department of Psychiatry, University of California San Diego, La Jolla, CA 92093, USA
- 2. Department of Psychiatry, Veterans Administration San Diego Healthcare System (VASDHS), San Diego, CA 92161, USA

Interests: tobacco use disorder; positron emission tomography; treatment of cigarette smoking; brain imaging; substance use disorders



Prof. Dr. lain Broom

Website (https://www3.rgu.ac.uk/dmstaff/broom-iain?) SciProfiles (https://sciprofiles.com/profile/183080)

Section Board Member

Centre for Obesity Research and Epidemiology (CORE), School of Pharmacy and Life Sciences, Robert Gordon University, Garthdee Road, Aberdeen AB10 7QB, UK

Interests: diabetes; obesity; metabolism; nutrition; trauma; sepsis

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Dr. Carlos Brotons

Website (http://www.eapsardenya.cat) SciProfiles (https://sciprofiles.com/profile/1523965)

Section Board Member

Research Unit, Sardenya Primary Health Care Center, Biomedical Research Institute Sant Pau, 08025 Barcelona, Spain

Interests: cardiovascular disease prevention; primary health care; general practice; health promotion; cardiovascular diseases; dyslipidemias; risk factors



Assoc. Prof. Stephanie Broyles

<u>Website (https://www.pbrc.edu/research-and-faculty/faculty/?faculty=3622)</u> <u>SciProfiles (https://sciprofiles.com/profile/2164594)</u> Section Board Member

Contextual Risk Factors Laboratory, Pennington Biomedical Research Center, 6400 Perkins Avenue, Baton Rouge, LA 70808, USA **Interests:** physical activity; obesity; built environment; social environment; social determinants of health; health equity



Dr. Ryan D. Burns <u>Website (https://faculty.utah.edu/u0708889-RYAN_DONALD_BURNS/hm/index.hml)</u> <u>SciProfiles (https://sciprofiles.com/profile/470381)</u>

Section Board Member

Department of Health and Kinesiology, University of Utah, Salt Lake City, UT 84112, USA

Interests: academic performance; adolescents; children; cognitive development; health; longitudinal analysis; physical activity; sports

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Prof. Dr. Lauri O. Byerley

<u>Website (https://www.medschool.lsuhsc.edu/physiology/faculty_detail.aspx?name=byerley_lauri)</u> We use cookies on our website to ensure you get the best experience. <u>SciProtiles (https://sciprotiles.com/protile/1747830)</u> Read more about our cookies <u>here (/about/privacy)</u>. Section Board Member

Sports and Health Sciences, School of Health Sciences, American Public University System, Charles Town, WV 25414, USA Interests: diet; gut microbiome; body composition; cancer cachexia; sports nutrition; assessment of dieta Active (acctive cachexia; sports nutrition) assessment of dieta Active cachexia; and the cachexia and the cachexia; sports nutrition; assessment of dieta Active cachexia; and the cachexia; sports nutrition; assessment of dieta Active cachexia; and the cach

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<u>Abstract</u> We carried out a scoping review to characterize the primary quantitative evidence addressing changes in key individual/structural determinants of substance use risks and health outcomes over the first two waves of the COVID-19 pandemic in the United States (US). We systematically queried the [...] Read more.

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Int. J. Environ. Res. Public Health 2022, 19(14), 8881; <u>https://doi.org/10.3390/ijerph19148881 (https://doi.org/10.3390/ijerph19148881)</u> - 21 Jul 2022 Viewed by 2139

<u>Abstract</u> The use of tobacco products is a major global public health issue, as it is the leading cause of preventable death worldwide. In addition, nicotine (NIC) is a key component of electronic and conventional cigarettes. Although nicotine's addictive potential is well known, its [...] <u>Read more.</u>

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<u>Abstract</u> Background: Retailer price promotions are an important marketing strategy to attract consumers. However, there is scarce evidence on how retail price promotions are being implemented by e-cigarette online stores, particularly for e-liquid products that are not often found in brick-and-mortar stores and sold [...] Read more.

(This article belongs to the Special Issue Public Health Impacts of Exposure to Tobacco, Alcohol, and Other Substances Content on Social Media (/journal/ijerph/special_issues/Substances_Social_Media))

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<u>Abstract</u> Relative leptin resistance in childhood to absolute leptin resistance in maturity suggests sleep, eating behaviour, and the psychological state as probable causes. The current body of research provides inconclusive evidence linking G2548A and Q223R to obesity. Furthermore, we could find very little data [...] Read more.

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Low Cardiorespiratory Fitness, Muscular Fitness, and Flexibility Are Associated with Body Fat Distribution and Obesity Risk Using Bioelectrical Impedance in Taiwanese Adults (/1660-4601/19/14/8858)

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<u>Abstract</u> In terms of public health, obesity and overweight have become major concerns worldwide. Nevertheless, regarding body composition, it is important to have a more precise understanding of the fat-to-muscle ratio. Hence, this study aimed to adopt bioelectrical impedance measurements to test body fat [...] <u>Read more.</u>

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by Comparing the second seco <u>Mariana Balbi Seixas (https://sciprofiles.com/profile/2451383),</u> ດ ≡ Intro Pecanha (https://sciprofiles.com/profile/author/WkMyR0IZUnpCMzh6bThpbVpIT1k5eFJNTG5xUFJiVVcvWXhLK1IPUEtVOD0=), Adriano Luiz Pereira (https://sciprofiles.com/profile/author/czF2dFhUUHVNSktVS0tMT2pZUC9EYWp5cjlpWWc1VIJoZzBqeU1qekxDQT0=), Patrícia Fernandes Trevizan (https://sciprofiles.com/profile/2648703). **Raquel Rodrigues Britto (https://sciprofiles.com/profile/author/anBnaTFYMS9iMU1tdHN3NIJ2MmhuTTNNemYza0hXVmplaTIIMDM1ZIhYRT0=)** and Lilian Pinto da Silva (https://sciprofiles.com/profile/2442633) Int. J. Environ. Res. Public Health 2022, 19(14), 8857; https://doi.org/10.3390/ijerph19148857 (https://doi.org/10.3390/ijerph19148857) - 21 Jul 2022 Viewed by 941 Abstract This cross-sectional study evaluated the perception of individuals with prediabetes/diabetes about their living conditions during the COVID-19 pandemic to identify the facilitators, barriers, and reasons to remain physically active at home and adhere to recommended exercise. It included individuals with prediabetes/diabetes who had [...] Read more. (This article belongs to the Section Health Behavior, Chronic Disease and Health Promotion (/journal/ijerph/sections/health promotion)) Show Figures (https://pub.mdpi-res.com/ijerph/ijerph-19-08857/article_deploy/html/images/ijerph-19-08857-g001-550.jpg?1658733091) Open Access Review Machine Learning Approaches for the Frailty Screening: A Narrative Review (/1660-4601/19/14/8825) by Seduarda Oliosi (https://sciprofiles.com/profile/2264821). Federico Guede-Fernández (https://sciprofiles.com/profile/1857348) and Ana Londral (https://sciprofiles.com/profile/2265242) Int. J. Environ. Res. Public Health 2022, 19(14), 8825; https://doi.org/10.3390/ijerph19148825 (https://doi.org/10.3390/ijerph19148825) - 20 Jul 2022 Cited by 2 (/1660-4601/19/14/8825#metrics) | Viewed by 1170 Abstract Frailty characterizes a state of impairments that increases the risk of adverse health outcomes such as physical limitation, lower quality of life, and premature death. Frailty prevention, early screening, and management of potential existing conditions are essential and impact the elderly population positively [...] Read more. (This article belongs to the Special Issue Prevention and Management of Frailty (/journal/ijerph/special_issues/Prevet_Frailty.)) Open Access Article E (/1660-4601/19/14/8817/pdf?version=1658317268) The Importance of Post-Mortem Investigations in Stillbirths: Case Studies and a Review of the Literature (/1660-4601/19/14/8817) by Scarmen Scalise (https://sciprofiles.com/profile/author/TklsczBHMVFtdU5aOFR4SFZwU20wSFpIQIZGY2pNZIVoempZVXA3Y1ZpUT0=), Pabrizio Cordasco (https://sciprofiles.com/profile/2322219), Matteo Antonio Sacco (https://sciprofiles.com/profile/2110414), Pietrantonio Ricci (https://sciprofiles.com/profile/author/VmRpZTdGMXhOcnk4bUpXcUJPL2ZjUT09) and Isabella Aquila (https://sciprofiles.com/profile/1980198) Int. J. Environ. Res. Public Health 2022, 19(14), 8817; https://doi.org/10.3390/ijerph19148817 (https://doi.org/10.3390/ijerph19148817), - 20 Jul 2022 Viewed by 928 Abstract Stillbirth has an important economic and social impact, though it remains "inexplicable" in many cases. We report the analysis of 11 cases of intrauterine fetal death carried out through a retrospective study conducted in the period between 2014 and 2017. The purpose of [...] Read more. (This article belongs to the Special Issue 2nd Edition of Clinical Risk Management: As Modern Tool for Prevention and Management of Care and Prevention Occupational Risk (/journal/ijerph/special_issues/2nd_edition_clinical_risk_management)) Show Figures (https://pub.mdpi-res.com/ijerph/ijerph-19-08817/article_deploy/html/images/ijerph-19-08817-g001-550.jpg?1658317340) (https://pub.mdpires.com/ijerph/ijerph-19-08817/article_deploy/html/images/ijerph-19-08817-g002-550.jpg?1658317345) (https://pub.mdpi-res.com/ijerph/ijerph-19-08817-g002-550.jpg?1658317345) 08817/article_deploy/html/images/ijerph-19-08817-g003-550.jpg?1658317342) (https://pub.mdpi-res.com/ijerph/ijerph-19-08817/article_deploy/html/images/ijerph-19-08817-g004-550.jpg?1658317350) (https://pub.mdpi-res.com/ijerph/ijerph-19-08817/article_deploy/html/images/ijerph-19-08817-g005-550.jpg?1658317344) (https://pub.mdpi-res.com/ijerph/ijerph-19-

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Early Teacher-Child Relationships Promote Self-Regulation Development in Prekindergarten (/1660-4601/19/14/8802)

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Abstract Children's experiences during the prekindergarten period are critical for shaping their emerging self-regulation skills. The purpose of this study was to examine the contribution of teacher-child relationship quality to children's performance on a self-regulation task at the end of prekindergarten Teachers rated the [...] Read more.

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Prevalence, Management, and Associated Factors of Obesity, Hypertension, and Diabetes in Tibetan Population Compared with China Overall (/1660-4601/19/14/8787)

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Abstract Tibetans' life expectancy lags behind China's average. Obesity and noncommunicable diseases (NCDs) contribute to health disparity, but NCD patterns among Tibetans are unknown. To examine the prevalence, management, and associated factors for obesity, hypertension, and diabetes among Tibetans, compared with China's average, we [...] Read more.

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Int. J. Environ. Res. Public Health 2022, 19(14), 8781; https://doi.org/10.3390/ijerph19148781 (https://doi.org/10.3390/ijerph19148781), - 19 Jul 2022 Viewed by 879

Abstract Background: Little is known about the interaction between the nasopharyngeal bacterial profile and the nutritional status in children. In this study, our main goal was to evaluate the associations between overnutrition and the presence of four potentially pathogenic bacteria in the nasopharynx of [...] Read more.

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Abstract Background: This study examined the relationship of physical activity (PA) combined with lower-body muscle strength to late-life depression and cognitive impairment in 10,097 participants (6062 females) \geq 65 years of age. Methods: Exposures were PA, sit-to-stand test (STST), and depressive symptoms. Outcome was [...] Read more.

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Executive Function-Related Improvements on a Commercial CBT-Based Weight Management Intervention: Pilot Randomized Controlled Trial (/1660-4601/19/14/8763)

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Int. J. Environ. Res. Public Health 2022, 19(14), 8763; https://doi.org/10.3390/ijerph19148763 (https://doi.org/10.3390/ijerph19148763) - 19 Jul 2022 Viewed by 1218

<u>Abstract</u> Executive functioning is a key component involved in many of the processes necessary for effective weight management behavior change (e.g., setting goals). Cognitive behavioral therapy (CBT) and third-wave CBT (e.g., mindfulness) are considered first-line treatments for obesity, but it is unknown to what [...] Read more.

(This article belongs to the Special Issue Obesity and Brain: Focus on Eating Behavior (/journal/ijerph/special_issues/OaBFoEB))

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Health Literacy and Its Associations with Understanding and Perception of Front-of-Package Nutrition Labels among Higher Education Students (/1660-4601/19/14/8751)

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<u>Abstract (1)</u> Background: Nutrition labels on the front of food packages have increasingly become the focus of research. However, too few studies have placed special emphasis on nutritionally at-risk subpopulations, such as young adults or those with low literacy/numeracy skills. The present study [...] Read more. (This article belongs to the Section Health Behavior, Chronic Disease and Health Promotion (/journal/ijerph/sections/health_promotion))

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Evaluation of a Community Intervention to Reduce Harmful Alcohol Consumption among Adult Population: A Study Protocol (/1660-4601/19/14/8746)

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Int. J. Environ. Res. Public Health 2022, 19(14), 8746; https://doi.org/10.3390/ijerph19148746 (https://doi.org/10.3390/ijerph19148746) - 18 Jul 2022 Viewed by 747

Abstract Harmful alcohol consumption is shaped by a complex range of structural, social, and individual determinants that interact with inequality axes, which condense defended on the neighborhoods, which is a community strategy [...] Read more. (This article about out concerning the strategy chological Interventions to Reduce Alcohol and Drug Use and Related Harm (/journal/ijerph/special_issues/alcohol_drug_use))

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Open Access Article A _______ Major Risk Factors for Mortality in Elderly and Non-Elderly Adult Patients Emergently Admitted for Blunt Chest Wall Trauma: Hospital Length of Stay as an Independent Predictor (/1660-4601/19/14/8729) by Suy Elgar (https://sciprofiles.com/profile/2267614), Abbas Smiley (https://sciprofiles.com/profile/1878722) and <u>Rifat Latifi (https://sciprofiles.com/profile/2499215)</u> Int. J. Environ. Res. Public Health 2022, 19(14), 8729; https://doi.org/10.3390/ijerph19148729 (https://doi.org/10.3390/ijerph19148729) - 18 Jul 2022 Cited by 2 (/1660-4601/19/14/8729#metrics) | Viewed by 883 Abstract Background: Blunt thoracic trauma is responsible for 35% of trauma-related deaths in the United States and significantly contributes to morbidity and healthcare-related financial strain. The goal of this study was to evaluate factors influencing mortality in patients emergently admitted with the primary diagnosis [...] Read more. (This article belongs to the Special Issue Hospital Length of Stay and Health Outcomes (/journal/ijerph/special_issues/Hospital_Length_Stay_Health_Outcomes)) E (/1660-4601/19/14/8709/pdf?version=1658063031) Open Access Article Analysis of Survival of Patients Hospitalized with COVID-19 in Espírito Santo, Brazil (/1660-4601/19/14/8709) by Sulliana Rodrigues Tovar Garbin (https://sciprofiles.com/profile/2183033), Pranciéle Marabotti Costa Leite (https://sciprofiles.com/profile/2285191), W Luís Carlos Lopes-Júnior (https://sciprofiles.com/profile/1736281), Cristiano Soares da Silva Dell'Antonio (https://sciprofiles.com/profile/2461350). (and b) Larissa Soares Dell'Antonio (https://sciprofiles.com/profile/2182906) and Ana Paula Brioschi dos Santos (https://sciprofiles.com/profile/author/VFlzanpQbzdJSVdBT1JKYk9OOEVabUhYNStFaFR3U0cyUGVtaGQ3QzFOQT Int. J. Environ. Res. Public Health 2022, 19(14), 8709; https://doi.org/10.3390/ijerph19148709 (https://doi.org/10.3390/ijerph19148709), - 17 Jul 2022 Cited by 1 (/1660-4601/19/14/8709#metrics) | Viewed by 1155

<u>Abstract</u> Objective: To analyze the survival of patients hospitalized with COVID-19 and its associated factors. Methods: Retrospective study of survival analysis in individuals notified and hospitalized with COVID-19 in the state of Espírito Santo, Brazil. As data source, the reports of hospitalized patients in [...] <u>Read more.</u>

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Rationale and Purpose: The FLUTE Study to Evaluate Fluorography Mass Screening for Tuberculosis and Other Diseases, as Conducted in Eastern Europe and Central Asia Countries (/1660-4601/19/14/8706)

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<u>Abstract</u> In Belarus and several EECA countries, periodic population-based chest X-ray "fluorography programme" use as a mass screening tool for the diagnosis of tuberculosis (TB) has been used for decades. This mass screening has also often been justified for the early detection of lung [...] <u>Read more.</u> (This article belongs to the Special Issue <u>Lung Disease and Pulmonary Rehabilitation, Respiratory Health, Public Health (</u>

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Diabetes and Cardiovascular Diseases Risk Assessment in Community Pharmacies: An Implementation Study (/1660-4601/19/14/8699) by Starah Rondeaux (https://sciprofiles.com/profile/2225501), ດ ≡ Icssa Braeckman (https://sciprofiles.com/profile/author/U1gwbUs3ZkZqM0ZuS2s4b09SM24vNDUwZ1o4TWh4RSt6ZjBjcTBTS21nTT0=). Mieke Beckwé (https://sciprofiles.com/profile/author/SUNCZk0zVDZKNGw3SkVTYUw4VHI6SW9OSHZLbIJTVIJgOFkremZ1OXY0dz0=). Natacha Biset (https://sciprofiles.com/profile/1839300), Soris Maesschalck (https://sciprofiles.com/profile/author/enVhWGV6Y0x2clUxZW00NmVKWEhySHpvUG5CTHNGS1MvcHlRaVpGYiRIZz0=). Nathalie Duquet (https://sciprofiles.com/profile/author/TnZZOVM3bHc4VjdKNE9yMDVIMHFgaWEzTThXeHdwY1IGK2pOSVU5ZnpjYz0=). Isabelle De Wulf (https://sciprofiles.com/profile/author/UHINYmJ4c3BVeWNOcUo5MTI2QUdDaU04WkwxekdPN01LL1VUbXFnamhpND0=), Split Devroey (https://sciprofiles.com/profile/author/NnlyTnovQlpRUTZXQjhGeDdNZjBqYzhVenVOK2k1MEpjSGE0U2ZXMmhtaz0=) and Carine De Vriese (https://sciprofiles.com/profile/1943801) Int. J. Environ. Res. Public Health 2022, 19(14), 8699; https://doi.org/10.3390/ijerph19148699 (https://doi.org/10.3390/ijerph19148699) - 17 Jul 2022. Cited by 1 (/1660-4601/19/14/8699#metrics) | Viewed by 880 Abstract The implementation of a new service is often challenging when translating research findings into routine clinical practices. This paper presents the results of the implementation study of a pilot project for a diabetes and cardiovascular diseases risk-assessment service in Belgian community pharmacies. To [...] Read more. (This article belongs to the Special Issue Assessment and Management of Lifestyle-Related Risk Factors for the Prevention and Management of Noncommunicable Disease in Primary and Community Care (/journal/ijerph/special issues/lifestyle-related risks)) Show Figures (https://pub.mdpi-res.com/ijerph/ijerph-19-08699/article_deploy/html/images/ijerph-19-08699-g001-550.jpg?1658293839) Open Access Review Participatory Approaches in Family Health Promotion as an Opportunity for Health Behavior Change—A Rapid Review (/1660-4601/19/14/8680) by 😫 Maja Kuchler (https://sciprofiles.com/profile/1205339), Marie Rauscher (https://sciprofiles.com/profile/author/RGUxQjlvMIErYWJLQ3ZvR2RoQjZaelUyUW0rbVdKS05sd1E3MnZndHRtQT0=), Pia Rangnow (https://sciprofiles.com/profile/2328737) and Pike Quilling (https://sciprofiles.com/profile/1166594) Int. J. Environ. Res. Public Health 2022, 19(14), 8680; https://doi.org/10.3390/ijerph19148680 (https://doi.org/10.3390/ijerph19148680), - 16 Jul 2022 Viewed by 1331 Abstract Background: With their influence on health behavior of children, families are important addressees in health promotion and prevention of chronic diseases. However, they are often difficult to reach, partly due to the open approach of health promotion services. Therefore, they should be addressed [...] Read more. (This article belongs to the Special Issue Behavior Change in Health Promotion and Prevention of Chronic Diseases (/journal/ijerph/special issues/Behav Chang Chron Disease Health Promot)) Show Figures (https://pub.mdpi-res.com/ijerph/ijerph-19-08680/article_deploy/html/images/ijerph-19-08680-g001-550.jpg?1657980491) Open Access Review E 4 (/1660-4601/19/14/8677/pdf?version=1658135236) Management of Type 2 Diabetes Mellitus in Elderly Patients with Frailty and/or Sarcopenia (/1660-4601/19/14/8677) by Saime Sanz-Cánovas (https://sciprofiles.com/profile/author/TDJjTVBiLytCU2tKamdrUkJLUktXZm9IOStSZUF4NkxFSi96RktLNnZpdz0=). Almudena López-Sampalo (https://sciprofiles.com/profile/author/NmJKQ1UxQVdneHIVOHVHUmQ2WXR2YVVyaTZtTk1GUIFmOVBBOERsQndlalBx Lidia Cobos-Palacios (https://sciprofiles.com/profile/author/OXVsRzVIN3ZCbEltdkdvWnMwM0VNUE9LRXZwS1I1dGlydVdLOWpuSVhQejlPWXFja2: Michele Ricci (https://sciprofiles.com/profile/author/N0wrekFVSWt5cnRnUjMzbEtMd2xkSDF3c2RGVUhFTDN4ZVhsWHd6Q1NmTzFJeWxwcFJMdVf <u>Halbert Hernández-Negrín (https://sciprofiles.com/profile/2420972),</u> Duan José Mancebo-Sevilla (https://sciprofiles.com/profile/author/ZVNsNDJjQVNsaFNSU25wdU15TIVGVVdWUVBTVWFGd0htVk4renRuSGtIOHMyi Elena Álvarez-Recio (https://sciprofiles.com/profile/author/bFd6cUI5Uk9BVHpVRm04enpHanZhdWRrOUJJN1FVb1ZqeCswQzJla1UwMD0=), María Dolores López-Carmona (https://sciprofiles.com/profile/author/cHJRNVhhMWQrUmV6c2dSbk8rUTNvbkJBM0R3KzkzTFBwY0F0WXlhdWg2K Luis Miguel Pérez-Belmonte (https://sciprofiles.com/profile/author/eTE4ZTVIME9LRINZQnhTdWxpS0xRSFFNMUREZDZ6UXNkUDBBUXIySU9WQ21 Ricardo Gómez-Huelgas (https://sciprofiles.com/profile/1104801) and SMaria Rosa Bernal-López (https://sciprofiles.com/profile/1094424) Int 9. USA (180) kies. Op Our website to 202 nov reason of the best experient 5390/ijerph19148677 (https://doi.org/10.3390/ijerph19148677) - 16 Jul 2022 cReady grand and the second se

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Abstract The life expectancy of the population is increasing worldwide due to improvements in the prevention, diagnosis, and treatment of diseases. This favors a higher prevalence of type 2 diabetes mellitus (T2DM) in the elderly. Sarcopenia and frailty are also frequently present Acting (accentication)

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Abstract Background: The Revised Illness Perception Questionnaire (IPQ-R) measures individuals' unique perceptions of their illness. While psychometric properties of the IPQ-R have been demonstrated in many disease populations, its content validity has not been extensively studied in non-dialysis chronic kidney disease (CKD). Unique features [...] Read more.

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Female passive smoking is widespread, particularly in Chinese rural areas. Objective: This study aimed to assess the association between heavy metal accumulation and [...] Read more.

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Methylation in the Promoter Region of the Dopamine Transporter DAT1 Gene in People Addicted to Nicotine (/1660-4601/19/14/8602)

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<u>Abstract</u> The first goal of this study is to develop a conceptual model of the causal relationship between psychological antecedents (internal attribution, anger, dangerousness, fear) of stigmatization, stigmatization (public stigma, anticipated stigma), and the behavioral consequences (compliance with COVID-19 prevention guidelines, COVID-19 testing intention) [...] Read more.

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Relationship of 24-Hour Movement Behaviors with Weight Status and Body Composition in Chinese Primary School Children: A Cross-Sectional Study (/1660-4601/19/14/8586)

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<u>Abstract</u> 24 h movement behaviors, specifically physical activity (PA), sedentary behavior, and sleep, play a crucial role in the prevention and intervention of childhood obesity. This study aimed to examine the association of 24 h movement behaviors with weight status and body composition among [...] <u>Read more</u>. (This article belongs to the Special Issue <u>Psychosocial and Environmental Factors of Multiple Health Behavior Change (</u> /journal/ijerph/special issues/Psychosocial Environmental Health Behavior))

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Int. J. Environ. Res. Public Health 2022, 19(14), 8583; https://doi.org/10.3390/ijerph19148583 (https://doi.org/10.3390/ijerph19148583) - 14 Jul 2022 Viewed by 888

<u>Abstract</u> Recent advances in sexual equality and diversity have not been able to mitigate the serious problem of discrimination suffered by sexual minorities. The most serious cases involve violence and physical or psychological aggression towards sexual orientations that differ from the heterosexual norm. This [...] <u>Read more.</u>

(This article belongs to the Special Issue <u>New Advances in Interpersonal Violence (/journal/ijerph/special_issues/interpersonal_violence)</u>)

Open Access Article

The Epidemiology of COVID-19 by Race/Ethnicity in Oklahoma City–County, Oklahoma (12 March 2020–31 May 2021) (/1660-4601/19/14/8571)

by <mark>8 Kapil Khadka (https://sciprofiles.com/profile/2263427)</mark>,

Kunle Adesigbin (https://sciprofiles.com/profile/author/ZE	<u>50WnJPUHAwUmpGa0JBMmFHSk9IQk9Ka2c2UEIFN0hIVzdJQnREWVpIQT0=),</u>
Substitution (2289614) Sciprofiles.com/profile/2289614)	

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Int. J. Environ. Res. Public Health 2022, 19(14), 8571; https://doi.org/10.3390/ijerph19148571 (https://doi.org/10.3390/ijerph19148571) - 14 Jul 2022 Viewed by 892 Abstract We aimed to better understand the racially-/ethnically-specific COVID-19-related outcomes, with respect to time, to respond more effectively to emerging variants. Surveillance data from Oklahoma City–County (12 March 2020–31 May 2021) were used to summarize COVID-19 cases, hospitalizations, deaths, and COVID-19 vaccination status by [...] Read more.

(Thing ticle belongs to the Special Issue COVID-19 Pandemics and Public Health (/journal/ijerph/special_issues/COVID19_pandemics_public_Reatth))

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Open Access Case Report

Non-Obese Type 2 Diabetes with a History of Being an Extremely Preterm Small-for-Gestational-Age Infant without Early Adiposity Rebound (/1660-4601/19/14/8560)

by 😫 Nobuhiko Nagano (https://sciprofiles.com/profile/972900), 😫 Chizuka Kaneko (https://sciprofiles.com/profile/2328496),

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<u>Megumi Seya (https://sciprofiles.com/profile/author/SHEyV2QwQ216S1o3Y3cvRlBla21vK2phUG9PWWE4Rmt4dXAyeWhZcW9XMD0=)</u>,

Itsuro Takigawa (https://sciprofiles.com/profile/author/dVdXVDZLUEh6enFoeWxCVmhiVEZkSEQ0bzVxWEYzMDFnbGpMVUUvL1NQRT0=),
 Automatical and a state of the state of the

Ken Masunaga (https://sciprofiles.com/profile/1438603) and link in the interview of the

<u>Abstract</u> Adiposity rebound (AR), which is defined as a situation in which the body mass index (BMI) starts to increase after infancy, is a predictive marker of future development of type 2 diabetes. The patient was a 20-year-old male. He was born at 28 [...] Read more.

(This article belongs to the Special Issue **Diabetes Mellitus-Current Challenges in the Pathophysiology**, **Diagnosis**, **Prevention and Management** (/journal/ijerph/special_issues/Diabates_Mellitus_Challenges))

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Open Access Editorial

Non-Pharmacological Interventions for the Management of Chronic Health Conditions and Non-Communicable Diseases (/1660-4601/19/14/8536) by

Carmina Castellano-Tejedor (https://sciprofiles.com/profile/author/aG9PbFpvRW0vVWcvV2hyMWVVV2hvQjlKSmhwdWIOR0xCejlITzFyUkUxaz0=) Int. J. Environ. Res. Public Health 2022, 19(14), 8536; https://doi.org/10.3390/ijerph19148536 (https://doi.org/10.3390/ijerph19148536) - 13 Jul 2022 Viewed by 1262

<u>Abstract</u> A chronic health condition has been defined by the World Health Organization (WHO) as a disease being of long duration, generally slow in progression and not passed from person to person; that is to say, a non-communicable disease (NCD) [...] <u>Full article (/1660-4601/19/14/8536)</u> (This article belongs to the Special Issue <u>Non-Pharmacological Interventions for the Management of Chronic Health Conditions and Non-Communicable Diseases (/journal/ijerph/special_issues/management_health_conditions_))</u>

Open Access Article

Prevalence of Health-Risk Behaviors and Mental Well-Being of ASEAN University Students in COVID-19 Pandemic (/1660-4601/19/14/8528)

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Krissachai Sriboonma (https://sciprofiles.com/profile/author/Z2ZGWTdxRVAvTGp2NmtSVjBjU1BGRWY4VVdhWS93NzNES21FRUFUcnVaRT0=),
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Supaporn Sudnongbua (https://sciprofiles.com/profile/451059), Phanasari Vidiawati (https://sciprofiles.com/profile/2329524),

Apichai Wattanapisit (https://sciprofiles.com/profile/1019026),

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Int. J. Environ. Res. Public Health 2022, 19(14), 8528; https://doi.org/10.3390/ijerph19148528 (https://doi.org/10.3390/ijerph19148528) - 12 Jul 2022 Cited by 4 (/1660-4601/19/14/8528#metrics) | Viewed by 2614 Abstract The prevalence of epidemiological health-risk behaviors and mental well-being in the COVID-19 pandemic, stratified by sociodemographic factors in Association of South East Asian Nations (ASEAN) university students, were examined in the research. Data were collected in March–June 2021 via an online survey from [...] Read more.

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The Reshaping of the E-Cigarette Retail Environment: Its Evolution and Public Health Concerns (/1660-4601/19/14/8518) by S Carla J. Berg (https://sciprofiles.com/profile/143359),

Albert Melena (https://sciprofiles.com/profile/author/L1Z6OG1oR0tLbGVXS3RnNEoyZ0xXdTdGanpxcDYvMlpBYVE0Z2ZpSjBGaz0=),

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Int. J. Environ. Res. Public Health 2022, 19(14), 8518; https://doi.org/10.3390/ijerph19148518 (https://doi.org/10.3390/ijerph19148518) - 12 Jul 2022 Cited by 2 (/1660-4601/19/14/8518#metrics) | Viewed by 1365

<u>Abstract</u> E-cigarette use represents a public health controversy in the US and globally. Despite the potential of e-cigarettes to support cigarette cessation, their use increases health risks and risk for addiction, particularly in young people. Various federal, state, and local laws have impacted tobacco [...] <u>Read more.</u> (This article belongs to the Section <u>Health Behavior, Chronic Disease and Health Promotion (/journal/ijerph/sections/health_promotion)</u>)

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Open Access Article

COVID-19 Pandemic Consequences among Individuals with Eating Disorders on a Clinical Sample in Poland—A Cross-Sectional Study (/1660-4601/19/14/8484)

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Natalia Adamczyk (https://sciprofiles.com/profile/author/dHo2WGxZWW0yL0RLT1ZKRGhNWVdwSWN1OGtJeGx1QnRuTGFZZnRmeDVSUT0=),

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Daniel Śliż (https://sciprofiles.com/profile/2051018)

Int. J. Environ. Res. Public Health 2022, 19(14), 8484; <u>https://doi.org/10.3390/ijerph19148484 (https://doi.org/10.3390/ijerph19148484)</u> - 11 Jul 2022 Cited by 4 (/1660-4601/19/14/8484#metrics) | Viewed by 1238

<u>Abstract</u> The COVID-19 pandemic and imposed restrictions had negative consequences on overall health among many populations. This study aimed to investigate the influence of the pandemic on eating disorders (ED) and mental health (MH) of individuals with confirmed ED diagnoses. A survey consisting of [...] <u>Read more.</u>

(This article belongs to the Special Issue Eating Disorders: Challenges, Advances and Public Health Insight (/journal/ijerph/special_issues/EDCAPHI))

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Environmental Influences on the Behavioural and Emotional Outcomes of Children: A Network Analysis (/1660-4601/19/14/8479)

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S Janis Paterson (https://sciprofiles.com/profile/author/RW53QU5nQ3ZxS0g3a0VwZE8xOXBVb2F6WHhBTG1yOU9JQytEZExpS202cz0=) and

<u>Irene Suilan Zeng (https://sciprofiles.com/profile/author/d2NPY01UN0tYcFJKenVUQzRTY0d3Umo2a3M3dEg4bGV2UkRoNjZPUGc4dz0=)</u>

Int. J. Environ. Res. Public Health 2022, 19(14), 8479; https://doi.org/10.3390/ijerph19148479 (https://doi.org/10.3390/ijerph19148479) - 11 Jul 2022 Viewed by 813

<u>Abstract</u> Background: Intellectual developmental disorders are a serious source of health morbidity with negative consequences for adults as well as children. However, there is limited evidence on the environmental, trace element, behavioural, and emotional outcomes in children. Here, we investigated whether there is any [...] Read more.

(This article belongs to the Special Issue <u>Environmental and Social Influences on Cognitive Development and Function: Second Edition (</u> /journal/ijerph/special_issues/cognitive_development_II)

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Prevention of Cardiovascular Diseases in Community Settings and Primary Health Care: A Pre-Implementation Contextual Analysis Using the Convention Research (/1660-4601/19/14/8467)

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Int. J. Environ. Res. Public Health 2022 , 19(14), 8467; <u>https://doi.org/10.3390/ijerph</u>	<u>19148467 (https://doi.org/10.3390/ijerpn19148467)</u> - 11 Jul 2022
Viewed by 1155	
Abstract Cardiovascular diseases are the world's leading cause of mortality, with a hi	gh burden especially among vulnerable populations. Interventions for
primary prevention need to be further implemented in community and primary health of	care settings. Context is critically important to understand potential
i m plementation determinants. Therefore, [<u>] Read more.</u>	•
(This article belongs to the Special Issue Assessment and Management of Lifestyle	e-Related Risk Factors for the Prevention and Management of Non-
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<u>A Program for the Comprehensive Cognitive Training of Excess Weight (TRAIN 4601/19/14/8447)</u>	<u> - P): The Study Protocol for A Randomized, Controlled Trial (/1660-</u>
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Raquel Vilar-López (https://sciprofiles.com/profile/author/ZjdPNWxQc0pCQm	1STUo2RFNPWnZCdz09)
Int. J. Environ. Res. Public Health 2022, 19(14), 8447; https://doi.org/10.3390/ijerph	19148447 (https://doi.org/10.3390/ijerph19148447) - 11 Jul 2022
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Abstract Background: The available treatments for people with excess weight have s	hown small effects. Cognitive training has shown promising results, but
most of the research focused on normal-weight university students and reported imm	ediate results after a single training session. This parallel group
randomized controlled [] Read more	viate results after a single training session. This parallel group,
(This article belongs to the Section Health Behavior Chronic Disease and Health F	Promotion (/journal/jierph/sections/health_promotion))
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Pacant Trands in Health Literacy Pasearch, Health Status of the Population and	Disease Provention: An Editorial (/1660-1601/19/11/8136)
he anisothe Developer (https://esignafiles.com/prefile/4444052) and Apres	<u>Disease rievention. An Eutonal (1000-4001/13/14/0430)</u>
by Agnieszka Baranska (https://scipromies.com/promie/1441053) and Anna 1	<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>
Int. J. Environ. Res. Public Health 2022 , 19(14), 8436; <u>https://doi.org/10.3390/ijerph</u> Viewed by 955	<u>19148436 (https://doi.org/10.3390/jerpn19148436)</u> - 10 Jul 2022
Abstract One challenge for the development of healthcare systems worldwide is to sl	nape society's health literacy [] <u>Full article (/1660-4601/19/14/8436)</u>
(This article belongs to the Special Issue Recent Trends in Health Literacy Research	<u>:h, Health Status of the Population and Disease Prevention (</u>
/journal/ijerph/special_issues/health_literacy_research))	
Open Access Article	
Investigating the Difference in Factors Contributing to the Likelihood of Motorc	<u>yclist Fatalities in Single Motorcycle and Multiple Vehicle Crashes</u>
<u>(/1660-4601/19/14/8411)</u>	
by 😵 <u>Ming-Heng Wang (https://sciprofiles.com/profile/1526754)</u>	
Int. J. Environ. Res. Public Health 2022, 19(14), 8411; https://doi.org/10.3390/ijerph	19148411 (https://doi.org/10.3390/ijerph19148411) - 09 Jul 2022
<u>Cited by 3 (/1660-4601/19/14/8411#metrics)</u> Viewed by 769	
Abstract In order to better understand the factors affecting the likelihood of motorcycl	ists' fatal injuries, motorcycle-involved crashes were investigated based
on the involvement of the following vehicles: single motorcycle (SM), multiple motorcy	cles (MM) and motorcycle versus vehicle (MV) crashes. Method: Binary
logit and mixed [] Read more.	
(This article belongs to the Special Issue Recent Research on Traffic Injuries and F	<u> Risk-Taking Behaviours among Motorcycle and Bicycle Riders (</u>
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Open Access Article

Relationship between Fatigue and Self-Perception of Constipation in Community-Dwelling Older Adults during the CONDER Pandentic (16161) 4601/19/14/8406) Back to TopTop by Schisato Hayashi (https://sciprofiles.com/profile/1383095)

Int: Kervion: Res. Public Health 2022, 19(14), 8406; https://doi.org/10.3390/ijerph19148406 (https://doi.org/10.3390/ijerph19148406) - 09 Jul 2022 Viewed by 730

<u>Abstract</u> Fatigue and constipation are common symptoms among community-dwelling older adults; however, no studies have explored the relationship $R \equiv$ between both symptoms in said group. Therefore, this study aimed to examine the relationship between fatigue and self-perception of constipation in community-dwelling older adults during the [...] Read more.

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Obstructive Sleep Apnea and Nonalcoholic Fatty Liver Disease in the General Population: A Cross-Sectional Study Using Nationally Representative Data (/1660-4601/19/14/8398)

by 😵 Taeyun Kim (https://sciprofiles.com/profile/1045745), 😵 Hyunji Choi (https://sciprofiles.com/profile/1892661),

<u>Jaejun Lee (https://sciprofiles.com/profile/1085949)</u> and <a>Physical Jehun Kim (https://sciprofiles.com/profile/1140160)

int. J. Environ. Res. Public Health **2022**, *19*(14), 8398; <u>https://doi.org/10.3390/ijerph19148398 (https://doi.org/10.3390/ijerph19148398)</u> - 09 Jul 2022 Viewed by 1020

<u>Abstract</u> (1) Background: To evaluate the association between obstructive sleep apnea (OSA) and nonalcoholic fatty liver disease (NAFLD) in the general population using a nationally representative sample from South Korea; (2) Methods: This study included 4275 adults aged \geq 40 years who completed the snoring, [...] <u>Read more.</u>

(This article belongs to the Special Issue 2nd Edition of Non-alcoholic Fatty Liver Disease: From Lifestyle to Environmental Factors (/journal/ijerph/special_issues/2nd_N_AFLD))

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Open Access Article

Ragging, a Form of University Violence in Sri Lanka—Prevalence, Self-Perceived Health Consequences, Help-Seeking Behavior and Associated Factors (/1660-4601/19/14/8383)

by Sayanthi Wickramasinghe (https://sciprofiles.com/profile/2266670),

Birgitta Essén (https://sciprofiles.com/profile/author/bVcxeGNmYW1nT08xSE1jREZEYThCanNKV2hxbCtXelZVcEhZaUNLVXB4dz0=),

Shirin Ziaei (https://sciprofiles.com/profile/157320),

Rajendra Surenthirakumaran (https://sciprofiles.com/profile/author/UFBzcm1iUWI3NC8rYIFzb3loWnlwT3pvKzNJSklhTmZFNGdVR3I0Z2xrYz0=) and

Pia Axemo (https://sciprofiles.com/profile/2353761)

Int. J. Environ. Res. Public Health 2022, 19(14), 8383; https://doi.org/10.3390/ijerph19148383 (https://doi.org/10.3390/ijerph19148383) - 08 Jul 2022 Cited by 1 (/1660-4601/19/14/8383#metrics) | Viewed by 1070

<u>Abstract</u> Ragging is an initiation ritual practiced in Sri Lankan universities for generations, although research is scarce. This practice has several adverse consequences such as physical, psychological, and behavioral effects and increased university dropouts. The aim of this study was to investigate the prevalence [...] Read more.

(This article belongs to the Special Issue New Advances in Interpersonal Violence (/journal/ijerph/special_issues/interpersonal_violence))

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Gestational Diabetes Mellitus: A Cross-Sectional Survey of Its Knowledge and Associated Factors among United Arab Emirates University Students (/1660-4601/19/14/8381)

by S Maryam M. Bashir (https://sciprofiles.com/profile/2321878), Luai A. Ahmed (https://sciprofiles.com/profile/1293658),

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Fatima H. Alhammadi (https://sciprofiles.com/profile/author/MU44d0VWMC8zOS9ySTZXSU5oeW0zMkZZQU1BOEZBRjM3U2ZkRFFPV0tmTT0=),
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Rami H. Al-Rifai (https://sciprofiles.com/profile/1083336) and Patma Al-Maskari (https://sciprofiles.com/profile/1137411)

Int. J. Environ. Res. Public Health 2022, 19(14), 8381; https://doi.org/10.3390/ijerph19148381 (https://doi.org/10.3390/ijerph19148381) - 08 Jul 2022 Viewed by 1083

Abstract Cestational diabetes mellitus (GDM) burden is burgeoning globally. Correct knowledge about GDM among young people is paramount for timely prevention. This study assesses GDM (nowledge and identifies factors associated with it among United Arab Emirates (UAE) University students. A validated self-administered questionnaire collected [...] Read more.

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Abstract Recent discoveries of the purpose and potential of microbial interactions with humans have broad implications for our understanding of metabolism, immunity, the host-microbe genetic interactions. Bioavailability and bioaccessibility of phytonutrients in foods not only enrich microbial diversity in the lower human gastrointestinal tract [...] Read more.

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<u>Abstract</u> Orexins, or hypocretins, are excitatory neuropeptides involved in the regulation of feeding behavior and the sleep and wakefulness states. Since their discovery, several lines of evidence have highlighted that orexin neurons regulate a great range of physiological functions, giving it the definition of [...] <u>Read</u> more.

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<u>The Effect of the Long-Term Calcipotriol/Betamethasone Dipropionate Local Therapy on Tissue Resident Memory Cells Markers in Psoriatic</u> <u>Eruptions (/1660-4601/19/14/8345)</u>

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<u>Abstract</u> Background: The natural course of psoriasis is characterized by the long-term persistence of lesions and a predilection for relapse in the same area. It is caused by the inherence of TRM (tissue resident memory T cells) in apparently healthy skin. These cells are [...] Read more.

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<u>Abstract</u> Evidence-based approaches promoting patient engagement and chronic illness self-management include peer support, shared decision-making, and education. Designed based on these components, Taking Charge of My Life and Health (TCMLH) is a group-based, 'Whole Person' care program promoting

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<u>Abstract</u> Bariatric surgery is currently regarded as a safe and effective long-term procedure for the treatment of obesity and related comorbidities. We analyzed the association between physical activity (PA), weight regain, metabolic risk factors and quality of life in patients submitted to bariatric surgery. [...] <u>Read more.</u> (This article belongs to the Special Issue <u>Living with Multimorbidity—from Current Prevention Strategies to Personalized Care (</u> /journal/ijerph/special_issues/Multimorbidity_Prevention_Care.))

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Diabetic and Hypertensive Disorders Following Miscarriage: A Protocol for Systematic Review and Meta-Analysis (/1660-4601/19/14/8324)

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<u>Abstract</u> (1) Background: Miscarriages occur in approximately 15–25% of all pregnancies. There is limited evidence suggesting an association between history of miscarriage and the development of diabetic and hypertensive disorders in women. This systematic review aims to collate the existing literature and provide up [...] <u>Read more.</u>

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Patterns of Alcohol Consumption and Associated Factors in a Population-Based Sample of 70-Year-Olds: Data from the Gothenburg H70 Birth

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Abstract Older adults of today consume more alcohol, yet knowledge about the factors associated with different consumption levels is limited in this age group. Based on the data from a population-based sample (*n* = 1156, 539 men and 617 women) in The Gothenburg [...] Read more.

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Abstract Hallux valgus is a common foot and ankle disease, for which numerous surgical procedures were introduced. So, understanding the mechanism of deformity reduction is important to select the proper method. Intermetatarsal angle (IMA) determines the severity of hallux valgus, which is influenced by [...]

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Int. J. Environ. Res. Public Health 2022, 19(14), 8289; https://doi.org/10.3390/ijerph19148289 (https://doi.org/10.3390/ijerph19148289) - 07 Jul 2022

<u>Abstract</u> In March 2020, the COVID-19 pandemic led to restricted vocational (Voc-PA) and recreational physical activity (Rec-PA) outside of the home. We conducted a nation-wide survey in the United States (US) during the mitigation peak of the pandemic (June 2020) to assess health-related changes [...] Read

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<u>Abstract</u> Electronic cigarettes (e-cigarettes) use is trending in Thailand. Electronic cigarettes are banned and illegally imported. This study aimed to investigate the behaviour, rationale, and satisfaction of e-cigarettes users and compared them between males and females. A cross-sectional study was conducted involving 1050 participants [...] Read more.

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First Report on the Co-Occurrence and Clustering Profiles of Cardiovascular Lifestyle Risk Factors among Adults in Burkina Faso (/1660-4601/19/14/8225)

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Eati Kirakoya-Samadoulougou (https://sciprofiles.com/profile/1709866) and Seni Kouanda (https://sciprofiles.com/profile/2282169) Int. J. Environ. Res. Public Health 2022, 19(14), 8225; https://doi.org/10.3390/ijerph19148225 (https://doi.org/10.3390/ijerph19148225) - 06 Jul 2022 Viewed by 802

<u>Abstract</u> The co-occurrence of cardiovascular risk factors is usually associated with a higher risk of cardiovascular disease (CVD) or cancer. This study aimed to determine the prevalence of the co-occurrence and its determinants and to identify the clustering profiles of lifestyle risk factors among [...] <u>Read more.</u> (This article belongs to the Section <u>Health Behavior, Chronic Disease and Health Promotion (/journal/ijerph/sections/health_promotion)</u>)

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Article Prevalence of Health-Risk Behaviors and Mental Well-Being of **ASEAN University Students in COVID-19 Pandemic**

Hanif Abdul Rahman^{1,2}, Areekul Amornsriwatanakul^{3,4,*}, Khadizah H. Abdul-Mumin^{1,5}, Denny Agustiningsih ⁶, Surasak Chaiyasong ⁷, Michael Chia ⁸, Supat Chupradit ⁹, Le Quang Huy ¹⁰, Katiya Ivanovitch¹¹, Ira Nurmala¹², Hazreen B. Abdul Majid¹³, Ahmad Iqmer Nashriq Mohd Nazan¹⁴, Yuvadee Rodjarkpai¹⁵, Ma. Henrietta Teresa O. de la Cruz¹⁶, Trias Mahmudiono¹², Krissachai Sriboonma¹⁷, Supaporn Sudnongbua ¹⁸, Dhanasari Vidiawati ¹⁹, Apichai Wattanapisit ²⁰, Sukanya Charoenwattana ¹⁵, Nani Cahyani ¹⁹, Josip Car ²¹, Moon-Ho Ringo Ho ²² and Michael Rosenberg ^{3,4}

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Abstract: The prevalence of epidemiological health-risk behaviors and mental well-being in the COVID-19 pandemic, stratified by sociodemographic factors in Association of South East Asian Nations (ASEAN) university students, were examined in the research. Data were collected in March-June 2021 via an online survey from 15,366 university students from 17 universities in seven ASEAN countries. Analyzed data comprised results on physical activity, health-related behaviors, mental well-being, and sociodemographic information. A large proportion of university students consumed



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sugar-sweetened beverages (82.0%; 95%CI: 81.4, 82.6) and snacks/fast food daily (65.2%; 95%CI: 64.4, 66.0). About half (52.2%; 95%CI: 51.4, 53.0) consumed less than the recommended daily amounts of fruit/vegetable and had high salt intake (54%; 95%CI: 53.3, 54.8). Physical inactivity was estimated at 39.7% (95%CI: 38.9, 40.5). A minority (16.7%; 95%CI: 16.1, 17.3) had low mental well-being, smoked (8.9%; 95%CI: 8.4, 9.3), and drank alcohol (13.4%; 95%CI: 12.8, 13.9). Country and body mass index had a significant correlation with many health-risk behaviors and mental well-being. The research provided important baseline data for guidance and for the monitoring of health outcomes among ASEAN university students and concludes that healthy diet, physical activity, and mental well-being should be key priority health areas for promotion among university students.

Keywords: exercise; smoking; alcohol; diet; mental health; lifestyle habits; ASEAN

1. Introduction

In the pre-coronavirus-2019 (COVID-19) pandemic era, the evidence was clear that healthy behaviors were the cornerstone to the prevention of non-communicable diseases (NCDs). NCDs have imposed a major and increasing burden on health and healthcare costs among nations [1]. Seventy-one per cent or 41 million of all global deaths (57 million) were attributable to NCDs, and a majority (78%) of all NCD deaths and 85% of global premature deaths occurred within low- and middle-income countries, where quite a few are members of the Association of South East Asian Nations (ASEAN) [2,3]. Even though many NCDs are usually asymptomatic in young adults, it is important to promote healthy, active behaviors early to prevent or delay the development of NCDs. In ASEAN, there are approximately 100 million young people (aged 15–24 years) with 20 million enrolled in a university [4]. The health behaviors of university students provide a unique forecast into future non-communicable disease (NCD) levels in later adulthood.

The lifestyle behaviors of students at university are critical, as it is the transitionary phase from adolescence to young adulthood, and students experience many changes in life that affect all dimensions of health-intellectual, emotional, and social-and these can influence lifestyle choices that in turn affect health [5]. Many health behaviors, including tobacco and alcohol consumption, poor sleep and diet, and physical inactivity, are positioned as major modifiable risk factors to NCDs [6]. Yet, although the above-mentioned behaviors are commonly reported among university students in many regions and in many countries [7–9], limited research reported specifically the prevalence of these health-risk behaviors among ASEAN university students. Some literature on the lifestyle behaviors of university students are instructive. For example, large-scale studies in North America, Europe, and a multi-site study in 23 low-to-middle-income countries (LMICs) showed that between 34% and 81% of university students did not meet global physical activity (PA) guidelines [8,10-13]. It appears that a lower proportion of university students smoked (12.7–19.3%), whereas 12.2% in LMICs and 50–60% in Western countries drank alcohol heavily [8,10,12,13]. More than 80% of university students consumed insufficient fruit and vegetable daily [8,12,13]. More than one-third (35%) of university students in five ASEAN countries consumed sugar-sweetened beverages (SSBs) once or more times daily [14]. Apart from these health-risk behaviors, mental well-being is also a neglected health issue among ASEAN university students. Although previous evidence showed that mental well-being among university students in LMICs was not prevalent (12.1%) [12], the issue of mental well-being has received greater attention from educators, especially during the COVID-19 pandemic.

Attempts to promote health among university students in ASEAN has been advocated through the ASEAN University Network—Health Promotion Network (AUN-HPN). AUN–HPN was established to promote the roles of universities in health promotion, including the prevention of NCDs across the ten ASEAN countries. The network comprises more than 36-member universities across the region plus China, Japan, and South Korea [15].

The AUN-HPN Healthy University Framework developed in 2016 provides guidelines for ASEAN-member universities to adopt a holistic and comprehensive health promotion policy and programs in their institutions. Key modifiable risk factors, e.g., tobacco and alcohol consumption, poor diet, and physical inactivity, are included in the framework, as these health-risk behaviors contribute to major NCDs in the region, for instance, coronary heart diseases, diabetes, and cancers [16]. In addition to these health-risk behaviors, mental health is also emphasized as part of the advocacy [15].

However, since the establishment of the AUN-HPN and launch of the Healthy University Framework in 2018, little is known about the prevalence of major health behaviors and the factors associated with these behaviors and mental well-being in ASEAN university students. The COVID-19 pandemic and its prevention measures could exacerbate health behaviors and mental well-being of the students. Research shows that ASEAN university students experienced unprecedented levels of burdens due to the sudden partial or complete national lockdowns to contain the viral infections [17] and challenges of transitioning from physical in-person to virtual or remote learning [18,19]. Therefore, there is a cogent need for some baseline research during the COVID-19 pandemic to inform future policy, programs, and practice in the post-pandemic era of the AUN countries. To support future policies of the AUN-HPN and the implementations of the Healthy University Framework among member universities, the present study investigated the prevalence of key healthrisk behaviors, mental well-being, and the sociodemographic factors associated with the behaviors and mental well-being among university students in ASEAN.

2. Methods

2.1. Study Design and Setting

The study was a cross-sectional online self-administered student survey conducted in 17 AUN-HPN member universities across 7 ASEAN countries. Participating universities included: (1) Universitas Airlangga, (2) Universitas Indonesia, and (3) Universitas Gadjah Mada from Indonesia; (4) Universiti Brunei Darussalam from Brunei Darussalam; (5) University of Malaya and (6) Universiti Putra Malaysia from Malaysia; (7) Ateneo de Manila University from the Philippines; (8) Vietnam National University Ho Chi Minh City from Vietnam; (9) Nanyang Technological University from Singapore; and (10) Burapha University, (11) Chiang Mai University, (12) King Mongkut's University of Technology North Bangkok, (13) Naresuan University, (14) Mahasarakham University, (15) Mahidol University, (16) Thammasat University, and (17) Walailak University from Thailand. Data were collected from March to June 2021 where lockdown, movement, and social gathering restrictions were enforced in all universities due to the coronavirus outbreaks in different forms across the member countries of ASEAN.

2.2. Participants and Recruitment

Participating universities started the student recruitment process and distribution of the online survey at different times between March and June 2021. All undergraduate students enrolled in participating universities were invited to complete the online survey. Student recruitment and the online survey distribution were coordinated by representatives of each university and was tailored to the culture and practices of each university within each country. The recruitment methods used included public relations posters, universitywide email circulation, official university social media channels such as group LINE (Line Corporation, Tokyo, Japan), and Instagram, Facebook, and WhatsApp (WhatsApp LLC., Menlo Park, CA, USA). Students were incentivized by being eligible for a prize draw for fifty smart watches when they provided a completed survey. A link and QR code on every channel were provided for students to obtain access to the survey.

2.3. Measures/Instruments

2.3.1. Online Survey

The AUN-HPN online survey comprised seven sections: (1) PA, (2) social support for PA, (3) university's environment, (4) health-related behaviors, (5) mental well-being, (6) opinion regarding university support, and (7) sociodemographic information. The survey was developed based on previously tested instruments. The survey (including all recruitment materials) originally developed in English was translated into the national language of each country. The languages included: Bahasa Indonesia (similar with Bahasa Malaysia and Bahasa Melayu), Malaysian, Thai, and Vietnamese. The translations were back translated into English according to the World Health Organization guidelines [20] to assess understandability of the questionnaire items and to rectify any inaccuracies in the translated versions. Prior to data collection, the online surveys were pilot tested with university students for comprehension of the survey and functionality of the online Qualtrics survey platform (Qualtrics International Inc., Seattle, WA, USA, 2021). Necessary changes were made, and student comments were taken into account before the rollout of the online survey.

2.3.2. Demographics

Participants provided demographic information that included age, gender, country, height, weight, grade point average (GPA), year of study, and living arrangement. Height and weight were used to calculate body mass index (BMI) and classified into 4 groups—"underweight" (<18.5 kg/m²), "normal" (18.5 to 22.9 kg/m²), "overweight" (23.0 to 24.9 kg/m²), and "obese" (\geq 25 kg/m²) according to World Health Organization (WHO) Asia-Pacific cut-offs [21]. GPA was standardized into a scale of 1 to 5 (\leq 3.2 = low, 3.3–3.9 = moderate, and >3.9 = high).

2.3.3. Health-Risk Behaviors

PA was measured based on the validated Global Physical Activity Questionnaire (GPAQ) version 2.0 [22]. The 16-item GPAQ was developed and tested by WHO with acceptable concurrent validity (r = 0.54) and a high level of repeatability (0.67–0.81) [23]. PA data were expressed as weekly Metabolic Equivalent of Task unit (MET-minutes/week), which is a measure of energy expenditure, where 1 MET equals 1 kcal/kg/h [24]. To-tal PA levels were classified into "sufficient (≥ 600 MET-min/week)" and "insufficient" (<600 MET-min/week) based on the WHO PA guidelines [22].

Other health-risk behaviors—consumption of tobacco, alcohol, fruits/vegetables, salt, and SSBs—were estimated using items from the existing instruments [25]. For tobacco consumption, students who smoked daily were categorized into "current smokers", and other responses (smoke occasionally/do not smoke now but used to/tried smoking a few times but never smoked regularly/have never smoked) were collapsed into "not current smokers". For alcohol consumption, students were asked how many days in a week they usually drank alcohol. Response options ranged from 0–7 days and "do not ever drink". Students' drinking was classified as "daily" if they drank 7 days/week and "not daily" for responses of <7 days/week. We decided to classify students' responses into "daily" and "not daily" drinking because generally Asians have higher alcohol-abstention rates compared with other regional groups and cultures [26]. In addition, regular alcohol drinking increased risk for all-cause and cancer mortality [27], and a zero-tolerance approach has been promoted among AUN-HPN member universities [15]. Thus, daily drinking reflected that daily consumption of alcohol could be risky.

For fruit/vegetable consumption, students were asked how many servings of fruits /vegetables they usually ate each day (one to eight servings). The consumption was classified into "sufficient" (≥5 servings/day) and "insufficient" (<5 servings/day), according to WHO recommendations [28]. Consumption of snacks/fast food was assessed by asking how many days students ate fast food, with response options ranging from none to 7 days. Students who ate fast food every day were categorized into "daily", and the remaining

responses were collapsed into "not daily". Students were also asked how many days they drank SSBs. Responses were handled similarly to the consumption of fast food. Frequent snacking and consumption of fast food (especially unhealthy food) are associated with higher energy intake, which could lead to higher risks of obesity [29]. Similar to snacking/fast food, frequent drinking of SSBs is associated with an increased risk of having metabolic syndromes and other NCDs, e.g., type 2 diabetes, kidney, and heart disease [30]. Thus, students' health could be at risk with daily consumption of fast food and SSBs. Salt intake was assessed by asking how many teaspoons of salt/salty sauces were added to food before eating. Based on WHO guidelines [31], responses were categorized into "not excessive" (adding <1 tea spoon or 5 gm/per day) and "excessive" sodium intake (adding \geq 1 tea spoon or 5 gm/per day).

2.3.4. Mental Well-Being

Mental well-being was measured using the shortened Warwick–Edinburgh Mental Well-being Scale (WEMWBS), a reliable and valid tool for university students [32]. The scale is scored by summing responses to each item answered on a 1 to 5 Likert scale (1 = none of the time, 5 = all of the time). The minimum score is 7, and the maximum is 35. Those scored between 7.0 and 17.99 was considered as having low mental well-being, 18.0 to 24.99 was moderate, and 25.0 to 35.0 was considered as high mental well-being.

2.4. Data Analysis

Data analyzed were drawn from three sections: PA, health-related behaviors, and sociodemographic information. To minimize errors in statistical analysis, a cleaning procedure was employed, such as removal of ineligible cases, duplicate responses, responses with more than 50% missing values (listwise deletion), and invalid questionnaire responses. Missing data in valid cases were handled using multiple imputation techniques set at 10 multiple imputations to replace missing with predicted values [33] using R package mice. Weighted probability was added as survey calibration to adjust and compensate for non-response bias prior to computing descriptive statistics, estimation, and inferential analyses.

Sociodemographic characteristics, PA, mental well-being, and other health-related behaviors were described with frequency and percentage as well as binomial approximation method using 95% confidence interval. Chi-square test for independence was applied to investigate the association of sociodemographic factors and each of the study outcome variables. One-way ANOVA was used to investigate the association of sociodemographic factors (sum of all study outcomes). Logistic regressions were computed (stepwise) to examine the association between explanatory and outcome variables. All analyses were computed on R v4.1.1 and RStudio v1.4.1717 for Mac (RStudio, Boston, MA, USA). Two-sided *p*-values less than 0.05 was considered statistically significant.

3. Results

Table 1 presents the sample characteristics of 15,366 university students enrolled in the online survey. The majority of respondents were from Vietnam (33.3%), followed by Indonesia (28.8%) and Thailand (25.6%). Approximately, half of the respondents were female (52.6%), were 19–21 years old (66.3%), and had normal BMI (61.5%). Over half of the respondents achieved a moderate GPA of 3.3–3.9 out of 5 (69.2%) and lived off-campus (65.2%). The highest prevalence of the health-risk behaviors was daily consumption of SSBs (82.0%; 95%CI: 81.4, 82.6), followed by snacks/fast food (65.2%; 95%CI: 64.4, 66.0), low consumption of fruit and vegetable (47.8%), and having an excessive salt intake (54.0%). Insufficient PA levels (<600 MET-min/week) were observed in 39.7% (95%CI: 38.9, 40.5) of respondents. A negative level of mental well-being was observed in 16.7% of the respondents (95%CI: 16.1, 17.3), whereas 13.4% drank alcohol (13.4%; 95%CI: 12.8, 13.9) and 8.9% smoked (8.9%; 95%CI: 8.4, 9.3) (Table 2).

	Weighted		95%	6CI
-	п	%	Lower	Upper
Age in years, mean (SD)	20.0	1.9	19.5	20.4
18	2496	18.4	17.7	19.8
19 to 21	9016	66.3	65.9	67.5
>22	2085	15.3	14.0	16.1
Gender				
Female	8077	52.6	51.78	53.4
Male	7289	47.4	46.6	48.2
BMI				
Underweight (<18.5)	2917	21.3	19.5	23.0
Normal (18.5–22.9)	8441	61.5	58.0	65.0
Overweight (23.0–24.9)	1739	12.7	10.3	15.0
Obese (\geq 25)	624	4.5	2.6	7.0
Country				
Vietnam	5106	33.3	32.5	34.0
Indonesia	4430	28.8	28.1	3.0
Thailand	3940	25.6	25.0	26.0
Brunei Darussalam	1020	6.6	6.3	7.0
Philippines	322	2.1	1.9	2.0
Malaysia	289	1.9	1.7	2.0
Singapore	259	1.7	1.5	2.0
Academic year				
1st	9940	64.7	63.9	65.0
2nd	2895	18.8	18.2	19.0
3rd	1800	11.7	11.2	12.0
4th or more	731	4.8	4.4	5.1
GPA (1 to 5)				
\leq 3.2	2443	20.1	19.5	21.0
3.2 to 3.9	8406	69.2	68.1	70.5
>3.9	1302	10.7	10.2	11.3
Living arrangement				
Off-campus	10,021	65.2	64.5	66.0
On-campus	5345	34.8	34.0	36.0

Table 1. Sociodemographic characteristics of university students (n = 15,366).

95%CI, 95% confidence interval (maximum likelihood); SD, standard deviation; *n*, frequency; BMI, body mass index; GPA, grade point average.

Tab	le 2.	Preva	lence of	health	n-related	beł	naviors	among	ASE	AN	universit	y stud	ents	(n =	15,366	5).
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	Weig	ted	95%	6CI
_	п	n % Lower U		
Physical activity				
Sufficient (≥ 600 MET-min/week)	9269	60.3	59.5	61.1
Insufficient (<600 MET-min/week)	6097	39.7	38.9	40.5
Mental well-being				
Low (7–17.99)	2559	16.7	16.1	17.3
Moderate (18-24.99)	9991	65.0	64.3	65.8
High (25.0–35.0)	2816	18.3	17.7	18.9
Overall score (7.0–35.0), mean (SD)	21.5	3.8	21.5	21.6

	Weig	hted	95%	%CI
	n	%	Lower	Upper
Smoking				
Current smokers	1365	8.9	8.4	9.3
Not current smokers	14,001	91.1	90.7	91.6
Alcohol drinking				
Daily	2052	13.4	12.8	13.9
Not daily	13,314	86.4	86.1	97.2
Fruits and vegetables				
Sufficient ($\geq 5 \text{ servings/day}$)	7339	47.8	47.0	48.6
Insufficient (<5 servings/day)	8027	52.2	51.5	53.0
Snacks/fast food				
Daily	10,019	65.2	64.4	66.0
Not daily	5347	34.8	34.0	35.6
Salt intake				
Not excessive ($\leq 5 \text{ g/day}$)	7061	46.0	45.2	46.7
Excessive (>5 g/day)	8305	54.0	53.3	54.8
Sugar-sweetened beverages				
Daily	12,598	82.0	81.4	82.6
Not daily	2768	18.0	17.4	18.6

Table 2. Cont.

95%CI, 95% confidence interval (maximum likelihood); SD, standard deviation; *n*, frequency.

Tables 3 and 4 show the proportion and significant sociodemographic factors that are supported by the final multivariable model depicted in Table 5. After adjusting for confounders, the strongest predictors of health-risk behaviors were country and BMI. University students in Indonesia and Singapore were 35% and 15%, respectively, more likely to be physically inactive compared with those in Brunei. Students in Indonesia (OR = 0.40, 95%CI: 0.34, 0.47), Malaysia (OR = 0.36, 95%CI: 0.24, 0.54), Thailand (OR = 0.36, 95%CI: 0.30, 0.42), Singapore (OR = 0.59, 95%CI: 0.42, 0.81), and Vietnam (OR = 0.48, 95%CI: 0.41, 0.56) were significantly less likely to experience low mental well-being compared with those in Brunei. Meanwhile, underweight and obese participants were 25% more likely to be physically inactive compared with those with normal BMI.

Students who lived off-campus were 28% more likely to be physically inactive and 26% more likely to have high salt intakes. Those with higher GPA were significantly less likely to consume alcohol. Female students were significantly less likely to have a poor diet (based upon fruit and vegetable intake) but were more likely to consume sugar-sweetened beverages. Higher-aged students were significantly less likely to have snack/fast food. Students in year 2 and year 4 or above were 17% and 30% more likely to have poor diet, respectively.

	<600 MET	Negative MW	Smoker	Alcohol Drinker	Poor Diet	Snacking/ Fast Food	High Salt	SSB	HRB ^a
Gender Male	3057 (41.9)	1190 (16.3)	716 (9.8)	881 (12.1)	3979 (54.6)	4724 (64.8)	3998 (54.9)	5836 (80.1)	3.3 (1.3)
Female	3040 (37.6)	1369 (17.0)	649 (8.0)	1171 (14.5)	4048 (50.1)	5295 (65.6)	4307 (53.3)	6762 (83.7)	3.3 (1.3)
Age in years									
	1124 (45.0)	404 (16.2)	193 (7.7)	162 (6.5)	1394 (55.9)	1644 (65.9)	1352 (54.2)	1989 (79.7)	3.3 (1.3)
19 to 21	3602 (40.0)	1462 (16.2)	796 (8.8)	1196 (13.3)	4644 (51.5)	5516 (61.2)	4835 (53.6)	7457 (82.7)	3.3(1.3)
>22	754 (36.2)	357 (17.1)	211 (10.1)	361 (17.3)	1103 (52.9)	1300 (62.4)	1138 (54.6)	1755 (84.2)	3.3 (1.4)
Country									
Vietnam	1747 (34.2)	860 (16.9)	294 (5.8)	724 (14.2)	2348 (46.0)	1891 (37.0)	2902 (56.8)	4278 (83.8)	2.9 (1.3)
Indonesia	2437 (55.0)	654 (14.8) 562 (14.2)	440 (9.9)	166 (3.8)	2728 (61.6)	3473 (78.4)	2281 (51.5)	3486 (78.7)	3.5(1.2)
Brunei Darussalam	1115 (20.5)	302 (14.3) 306 (30 0)	400 (10.3)	35 (3.4)	1701 (43.2) 682 (66.9)	257 (79.8)	2001 (32.3) 5/19 (53.8)	833 (81 7)	3.4(1.3) 3.8(1.2)
Philippines	118 (36.7)	83 (25.5)	50 (15.5)	71 (22.1)	225 (69.9)	257 (79.8)	168 (52.2)	216 (67.1)	3.7(1.5)
Malaysia	115 (40.0)	43 (14.9)	14 (4.8)	9 (3.1)	174 (60.2)	195 (79.8)	172 (59.5)	602 (69.9)	3.2 (1.3)
Singapore	128 (49.4)	52 (20.1)	25 (9.7)	51 (19.7)	169 (65.3)	219 (84.6)	172 (66.4)	205 (79.2)	3.9 (1.3)
Academic year									
1st	4081 (41.1)	1609 (16.2)	861 (8.7)	1154 (11.6)	5170 (52.0)	6523 (65.6)	5402 (54.4)	8106 (81.6)	3.3 (1.3
2nd	1115 (38.5)	527 (Ì8.2)	285 (9.8)	497 (17.2)	1511 (52.2)	1869 (64.6)	1559 (53.9)	2416 (83.5)	3.4 (1.3)
3rd	624 (34.7)	296 (16.4)	156 (8.7)	304 (16.9)	914 (50.8)	1089 (60.5)	959 (53.3)	1492 (82.9)	3.2 (1.3)
4th or more	277 (37.9)	127 (17.4)	63 (8.6)	97 (13.3)	432 (59.1)	538 (73.6)	385 (52.7)	584 (79.9)	3.4 (1.4)
GPA									
\leq 3.2	902 (36.9)	405 (16.6)	240 (9.8)	472 (19.3)	1198 (49.0)	1478 (60.5)	1349 (55.2)	2048 (83.8)	3.3 (1.4)
3.2 to 3.9	3569 (42.5)	1302 (15.5)	738 (8.8)	918 (10.9)	4522 (53.8)	5555 (66.1)	4504 (53.6)	6877 (81.8)	3.3 (1.3)
>3.9	445 (34.2)	214 (16.4)	92 (7.1)	196 (15.1)	646 (49.6)	654 (50.2)	727 (55.8)	1070 (82.2)	3.1 (1.4)
BMI									
Normal	3313 (39.3)	1300 (15.4)	720 (8.5)	1097 (13.0)	4426 (52.4)	5166 (61.2)	4506 (53.4)	6888 (81.6)	3.2 (1.3)
Underweight	1286 (44.0)	498 (17.1)	169 (5.8)	307 (10.5)	1570 (53.8)	1749 (60.0)	1526 (52.3)	2468 (84.6)	3.3 (1.3)
Overweight	640 (36.4) 277 (44.6)	(308 (17.7)	230 (13.2)	249 (14.3)	846 (48.7)	1190 (68.4)	1025 (58.9)	1419 (81.6)	3.4 (1.3)
Odese	277 (44.0)	133 (21.3)	93 (14.9)	82 (13.1)	347 (33.0)	438 (70.2)	351 (50.3)	541 (85.7)	3.0 (1.3)
Living arrangement									
On-campus	1647 (30.8)	795 (14.9)	503 (9,4)	1120 (21.0)	2641 (46.0)	3667 (68.6)	2806 (52.5)	4521 (84.6)	3.3(1.3)
Off-campus	4450 (44.4)	1764 (17.6)	862 (8.6)	932 (9.3)	5566 (55.5)	6352 (63.4)	5499 (54.9)	8077 (80.6)	3.3 (1.3)

Table 3. Sociodemographic factors associated with health-risk beh	haviors using chi-square test ($n = 15,366$) (Frequency (percentage)).
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^a one-way ANOVA (equal variance not assumed) (Mean (Standard deviation)); Bold values = significance at < 0.05; MET, metabolic equivalent; MW, mental well-being; SSB, sugar-sweetened beverages consumption; HRB, number of health-risk behaviors (scored 0 to 8), results in Mean (Standard Deviation).

	Physical Inactivity (<600 MET)	Negative Mental Well-Being	Smoker	Alcohol Drinker	Poor Diet	Snacking/ Fast Food	High Salt	SSB
Age in years ≤18 19 to 21 >22	1.00 0.81 (0.74, 0.89) 0.69 (0.61, 0.78)	1.00 1.07 (0.92, 1.25) 1.21 (1.03, 1.42)	1.00 1.16 (0.98, 1.36) 1.34 (1.10, 1.65)	1.00 2.20 (1.86, 2.62) 3.02 (2.74, 4.08)	1.00 0.84 (0.77, 0.92) 0.89 (0.79, 1.00)	1.00 0.82 (0.74, 0.90) 0.85 (0.76, 0.97)	1.00 0.97 (0.89, 1.06) 1.01 (0.90, 1.14)	1.00 1.21 (1.08, 1.36) 1.35 (1.16, 1.58)
Gender Male Female	1.00 0.84 (0.78, 0.89)	1.00 1.05 (0.96, 1.14)	1.00 0.80 (0.72, 0.90)	1.00 1.23 (1.12, 1.35)	1.00 0.84 (0.78, 0.89)	1.00 1.03 (0.97, 1.10)	1.00 0.94 (0.88, 1.00)	1.00 1.28 (1.17, 1.39)
BMI Normal Underweight Overweight Obese	1.00 1.22 (1.12, 1.33) 0.90 (0.81, 1.00) 1.24 (1.05, 1.46)	1.00 1.13 (1.01, 1.27) 1.18 (1.03, 1.35) 1.49 (1.21, 1.81)	1.00 0.66 (0.55, 0.78) 1.63 (1.39, 1.91) 1.88 (1.48, 2.36)	1.00 0.78 (0.69, 0.90) 1.12 (0.96, 1.29) 1.01 (0.79, 1.28)	1.00 1.06 (0.97, 1.15) 0.86 (0.78, 0.95) 1.14 (0.96, 1.34)	1.00 0.95 (0.87, 1.03) 1.37 (1.23, 1.53) 1.49 (1.25, 1.79)	1.00 0.95 (0.88, 1.04) 1.25 (1.12, 1.39) 1.12 (0.95, 1.32)	1.00 1.23 (1.10, 1.39) 0.99 (0.87, 1.14) 1.46 (1.16, 1.87)
Country Brunei Darussalam Indonesia Malaysia Philippines Singapore Thailand Vietnam	1.00 1.63 (1.42, 1.87) 0.88 (0.67, 1.15) 0.77 (0.59, 1.00) 1.30 (1.00, 1.71) 0.52 (0.46, 0.61) 0.69 (0.61, 0.79)	1.00 0.40 (0.35, 0.47) 0.41 (0.28, 0.57) 0.80 (0.60, 1.06) 0.59 (0.42, 0.81) 0.39 (0.33, 0.46) 0.47 (0.41, 0.55)	1.00 0.72 (0.59, 0.88) 0.33 (0.18, 0.56) 1.19 (0.83, 1.69) 0.69 (0.43, 1.69) 0.75 (0.61, 0.92) 0.40 (0.32, 0.49)	1.00 1.10 (0.77, 1.61) 0.90 (0.40, 1.82) 7.96 (5.23, 12.33) 6.90 (4.39, 11.00) 9.52 (6.85, 13.69) 4.65 (3.34, 6.69)	1.00 0.79 (0.69, 0.92) 0.75 (0.57, 0.98) 1.15 (0.88, 1.51) 0.93 (0.70, 1.24) 0.38 (0.33, 0.43) 0.42 (0.37, 0.49)	1.00 0.42 (0.33, 0.51) 0.24 (0.17, 0.32) 0.45 (0.32, 0.64) 0.62 (0.43, 0.94) 0.40 (0.32, 0.50) 0.07 (0.05, 0.08)	1.00 0.91 (0.79, 1.04) 1.26 (0.96, 1.64) 0.93 (0.72, 1.20) 1.69 (1.28, 2.26) 0.94 (0.81, 1.08) 1.12 (0.98, 1.29)	1.00 0.82 (0.69, 0.98) 0.52 (0.38, 0.70) 0.45 (0.34, 0.60) 0.85 (0.61, 1.20) 1.34 (1.12, 1.61) 1.15 (0.97, 1.37)
Academic year 1st 2nd 3rd 4th or more	1.00 0.90 (0.83, 0.98) 0.76 (0.69, 0.85) 0.88 (0.75, 1.02)	1.00 1.15 (1.03, 1.28) 1.02 (0.89, 1.17) 1.09 (0.89, 1.32)	1.00 1.15 (1.00, 1.32) 1.00 (0.83, 1.19) 0.99 (0.75, 1.29)	1.00 1.58 (1.41, 1.77) 1.55 (1.34, 1.77) 1.16 (0.93, 1.45)	1.00 1.01 (0.93, 1.09) 0.95 (0.86, 1.05) 1.33 (1.15, 1.56)	1.00 0.95 (0.88, 1.04) 0.80 (0.72, 0.89) 1.46 (1.12, 1.73)	1.00 0.98 (0.90, 1.06) 0.95 (0.86, 1.06) 0.93 (0.80, 1.08)	1.00 1.14 (1.02, 1.27) 1.09 (0.96, 1.25) 0.89 (0.74, 1.08)
GPA ≤3.2 3.2 to 3.9 >3.9	1.00 1.26 (1.15, 1.38) 0.89 (0.77, 1.02)	1.00 0.92 (0.82, 1.04) 0.99 (0.82, 1.29)	1.00 0.88 (0.76, 1.03) 0.70 (0.54, 0.89)	1.00 0.51 (0.45, 0.58) 0.74 (0.62, 0.89)	1.00 1.21 (1.11, 1.32) 1.02 (0.89, 1.17)	1.00 1.27 (1.16, 1.40) 0.65 (0.58, 0.75)	1.00 0.93 (0.85, 1.02) 1.02 (0.89, 1.17)	1.00 0.86 (0.76, 0.97) 0.88 (0.74, 1.06)
Living arrangement On-campus Off-campus	1.00 1.79 (1.67, 1.92)	1.00 1.22 (1.12, 1.34)	1.00 0.91 (0.81, 1.02)	1.00 0.38 (0.35, 0.43)	1.00 1.46 (1.37, 1.56)	1.00 0.79 (0.74, 0.85)	1.00 1.10 (1.02, 1.17)	1.00 0.75 (0.69, 0.82)

Table 4. Factors associated with health-risk behavior	rs using bivariate logisti	ic regression ($n = 15,366$) (Crude	Odds Ratio (95%CI)).
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Bold values = significance at < 0.05; MET, metabolic equivalent; SSB, sugar-sweetened beverages consumption.

	Physical Inactivity (<600 MET)	Negative Mental Well-Being	Smoker	Alcohol Drinker	Poor Diet	Snacking/ Fast Food	High Salt	SSB
Age in years ≤18 19 to 21 >22	- - -	- - -	- - -	1.00 1.39 (1.16, 1.68) 1.60 (1.29, 2.00)	- - -	1.00 0.88 (0.79, 0.99) 0.83 (0.72, 0.97)	- - -	- - -
Gender Male Female	- -	- -	-	- -	1.00 0.92 (0.86, 0.99)	-	- -	1.00 1.16 (1.06, 1.27)
BMI Normal Underweight Overweight Obese	1.00 1.25 (1.14, 1.36) 0.86 (0.77, 0.96) 1.25 (1.03, 1.45)	1.00 1.14 (1.02, 1.28) 1.13 (0.98, 1.30) 1.37 (1.12, 1.68)	1.00 0.66 (0.56, 0.78) 1.52 (1.29, 1.78) 1.58 (1.23, 1.99)	1.00 0.80 (0.70, 0.92) 1.14 (0.97, 1.33) 1.00 (0.77, 1.29)	1.00 1.08 (0.99, 1.18) 0.79 (0.71, 0.88) 1.01 (0.86, 1.20)	- - -	1.00 0.96 (0.88, 1.04) 1.27 (1.14, 1.41) 1.16 (0.98, 1.37)	1.00 1.22 (1.09, 1.37) 1.01 (0.89, 1.16) 1.49 (1.17, 1.91)
Country Brunei Darussalam Indonesia Malaysia Philippines Singapore Thailand Vietnam	1.00 1.65 (1.43, 1.92) 0.99 (0.73, 1.34) 0.75 (0.57, 0.99) 1.85 (1.34, 2.55) 0.68 (0.56, 0.82) 0.73 (0.63, 0.84)	1.00 0.40 (0.34, 0.47) 0.36 (0.24, 0.54) 0.87 (0.64, 1.17) 0.73 (0.50, 1.06) 0.36 (0.30, 0.42) 0.48 (0.41, 0.56)	1.00 0.80 (0.64, 1.00) 0.36 (0.19, 0.63) 1.30 (0.88, 1.89) 0.68 (0.38, 1.15) 0.87 (0.69, 1.09) 0.41 (0.33, 0.52)	1.00 1.00 (0.69, 1.49) 1.14 (0.48, 2.41) 7.37 (4.73, 11.65) 8.15 (5.03, 13.31) 8.84 (6.30, 12.81) 4.43 (3.16, 6.42)	1.00 0.82 (0.70, 0.96) 0.68 (0.50, 0.92) 1.10 (0.83, 1.47) 0.94 (0.68, 1.32) 0.38 (0.32, 0.44) 0.41 (0.35, 0.47)	1.00 0.41 (0.33, 0.51) 0.22 (0.15, 0.31) 0.50 (0.35, 0.72) 0.50 (0.34, 0.77) 0.40 (0.31, 0.52) 0.05 (0.04, 0.07)	1.00 0.89 (0.77, 1.03) 1.70 (1.25, 2.31) 1.04 (0.80, 1.36) 1.98 (1.42, 2.78) 1.19 (0.99, 1.43) 1.19 (1.03, 1.38)	1.00 0.82 (0.68, 0.98) 0.51 (0.37, 0.69) 0.43 (0.32, 0.59) 0.88 (0.60, 1.33) 1.40 (1.14, 1.70) 1.18 (0.97, 1.42)
Academic year 1st 2nd 3rd 4th or more	- - - -	- - - -	- - - - -	- - - -	1.00 1.17 (1.06, 1.28) 1.08 (0.96, 1.21) 1.30 (1.07, 1.58)	- - - -	1.00 0.93 (0.85, 1.02) 0.87 (0.77, 0.97) 0.81 (0.67, 0.98)	- - - -
GPA ≤3.2 3.2 to 3.9 >3.9	- - -	- - -	- - -	1.00 0.75 (0.66, 0.86) 0.69 (0.56, 0.84)	- - -	- - -	- - -	- - -
Living arrangement On-campus Off-campus	1.00 1.28 (1.13, 1.46)	-	-	-	-	-	1.00 1.26 (1.11, 1.42)	-
test	8 66 (8)	0.862 (8)	2 14 (8)	7.08 (8)	2 34 (8)	6 14 (8)	8 51 (8)	11.00 (8)
<i>p</i> -value	0.371	0.999	0.976	0.528	0.968	0.632	0.386	0.202

Table 5. Factors associated with health-risk behaviors using stepwise multiple logistic regression (*n* = 15,366) (Adjusted Odds Ratio (95%CI)).

Bold values = significance at <0.05; MET, metabolic equivalent; H-L, Hosmer–Lemeshow; SSB, sugar-sweetened beverages consumption.

4. Discussion

The present study provided the baseline data of key health-risk behaviors and mental well-being among ASEAN university students in the COVID-19 pandemic. Several salient health-risk behaviors in university students, in particular unhealthy diet and physical inactivity, were identified behaviors, and these are instructive and helpful to the AUN-HPN stakeholders. We found that a very high proportion of ASEAN university students (82%) consumed SSBs daily, which were much higher than that reported in another study in university students in LMICs (35%) [12]. The frequent consumption of SSBs is worrisome, as research showed that it contributed to negative dietary patterns, including frequent fast food, high salt, and low fruit and vegetable intake [14]. Our findings also suggested that from the first year of university life onwards, students, particularly those living off campus, demonstrated increasingly poorer dietary choices. That could partially be due to a lack of self-discipline to eat a healthy diet and the fact that students had to be responsible for feeding themselves [34,35]. Additionally, the prevalence of *sufficient fruit and vegetable* intake among ASEAN university students (47.8%) was much lower compared to that reported by a multisite study in LMICs (82%) and in Australian (90%) and Canadian students (63.8%) [12,13,36]. One reason could be due to the limited access to fruits and vegetables from country-wide lockdowns and movement restrictions to prevent the spread of the COVID-19 in the seven ASEAN countries. Many traditional markets that sell affordable fruits and vegetables were closed during the pandemic. However, we recommend further research into the monitoring of the consumption of SSBs, fruit and vegetable, salt, and snack/fast food as the COVID-19 pandemic morphs into a COVID-19 endemic in seven ASEAN countries.

In the present study, physical inactivity among ASEAN students (39.7%) was much higher than the estimated mean for East and South-East Asia (17.3%) [37]. The prevalence of physical inactivity was, however, consistent with the 41.4% reported in a multisite study conducted in the Caribbean and South America, Sub-Saharan Africa, and East, Central, South, and South East Asia [12,37]. The results were also similar to those reported among university students in Malaysia (41.4%) [11] and Thailand (50.5%) [38]. When compared to the prevalence estimates reported in American (>70%) [39] and Canadian university students (61.2%) [36], the prevalence estimates of physical inactivity among ASEAN students were lower. Some evidence showed that the COVID-19 pandemic affected on the PA of young adults as the prevalence of meeting the PA guidelines among them decreased markedly in the COVID-19 pandemic compared to before the COVID-19 pandemic [40,41]. Nonetheless, the baseline prevalence of PA levels among ASEAN university students prior to the COVID-19 pandemic was unknown. Thus, the prevalence estimates from the present study provided useful baseline data for the monitoring of PA among university students in the event that COVID-19 pandemic morphs into an endemic disease. These results also provided the AUN-HPN with additional impetus to support its health promotion initiatives for comprehensive PA opportunities for students returning to campuses when COVID-19 restrictions are relaxed.

Several identified health-risk behaviors that were less prevalent are nonetheless still important for continuous monitoring. This included the *mental well-being* of ASEAN university students, where 16.7% of them reported low mental well-being. However, the prevalence identified in our study is markedly lower than that reported in Western countries such as Australia (33.8%) and the United States (45%) [42,43]. We propose two reasons for this lower relative prevalence of poor mental well-being in ASEAN university students. First, the prevalence could be under-reported owing to the stigma that is often associated with mental disorders in Asian cultures [44]. Second, social capital (e.g., positive family and community relationships, family support, and social interaction and support networks via social media) could have a buffering and protective function, while physical social isolation measures were operational [45].

Similarly, we suspect that the prevalence of *tobacco and alcohol consumption* might be underreported. The proportion of students who were current smokers (8.9%) in this current

study was about half of the South East Asian regional estimate (19.3% among students aged \geq 15 years) reported by others [46]. Moreover, the proportion of ASEAN university students who drank daily (13.4%) was much lower than that reported among people aged 15–19 years in South East Asia (21%) and in the Western Pacific regions (38%) [46]. These observed differences could partially be explained by the higher legal age requirements for alcohol and tobacco consumption in some of the ASEAN countries. (e.g., 20 years old in Thailand [47]). Additionally, some ASEAN countries, e.g., Brunei, Indonesia, and Malaysia, have populations where Muslims constitute a majority of the population and where alcohol drinking could be prohibited by the national religion. Tobacco and alcohol consumption are also prohibited in most educational institutions in the ASEAN region and might therefore contribute to the lower relative levels of consumption compared to non-ASEAN countries, where the habits of tobacco and alcohol consumption are less restrictive.

BMI and country of residence appeared to have a significant correlation with the lifestyle behaviors of university students. For instance, obese university students seemed to have many health-risk behaviors. They had higher odds of having insufficient PA, low mental well-being, and a higher consumption of SSBs. Similarly, students who were underweight had higher odds of not meeting the PA guidelines and having a low mental well-being. Although there was no significant relationship between BMI and snacking/fast food consumption, our results suggested that having a healthy body weight was important for university students' well-being. Our results showed that health-risk behaviors in university students varied by the country of residence. For instance, compared to university students from Brunei, those from Indonesia and Singapore were more likely to be insufficiently active, and university students from the Philippines, Singapore, Thailand, and Vietnam had a higher chance of being daily alcohol drinkers. Similarly, university students from Malaysia, Singapore, and Vietnam had greater odds of having a high salt intake. These findings suggested that universities and public health advocates planning ameliorative health programs in different countries might need to take into account the different cultures, environments, and different priorities of the countries for effective implementation. For example, Singapore stakeholders need to pay attention to physical inactivity and alcohol and salt consumption in university students, while those in Thailand need to focus on alcohol and SSB consumption. Nevertheless, limited data in the present survey precluded a more expansive discussion. We recommend that country-level factors, e.g., urbanization, gross domestic product per capita, human development index, dietary culture, COVID-19 prevention measures, and health promotion policies and advocacy, be included in followup research to gain deeper insights on how these factors might play a role in the lifestyle behaviors in university students in the seven ASEAN countries.

It is noteworthy that students with a higher *GPA* had lower odds of being alcohol drinkers. The odds were even lower when the GPA was greater than 3.9. The results of our study contrasted with a study in Finland that showed that academic performance had no significant correlation with any alcohol consumption behavior (e.g., high frequency, and problematic drinking) [48]. There is, however, evidence to the contrary, where frequent drinking of alcohol is negatively associated high school and college completion [49]. As limited research on the relationship between academic performance and alcohol consumption is available, and it is unknown if the academic performance–alcohol consumption nexus relationship is bidirectional, further investigation is recommended.

Several strengths and limitations of the present research are instructive. Although this is a large-scale, multinational study that used well-defined measures and received good response from students in the midst of COVID-19 pandemic, self-reporting could underestimate certain health-risk behaviors such as tobacco, alcohol, and mental state because of social desirability bias (SDB). Nonetheless, as the online survey was anonymous, perhaps SDB was minimized. As data were collected in the COVID-19 pandemic, and responses were compounded by the COVID-19 prevention measures, statistical inference on causal and interactional events are limited with the cross-sectional nature of the research, and cause-and-effect deductions in the results cannot be ascertained. The research in the seven

ASEAN countries in the COVID-19 pandemic presented opportunities for learning and fostered collaboration. Future research could use more robust prospective research designs so as to minimize biases and examine direct and indirect effects of health-risk behaviors singly or in combination (i.e., tobacco, alcohol, and other risk behaviors), environmental factors, and university policies on university students' health behaviors.

5. Conclusions

Our study provided important baseline data on health-risk behaviors and mental well-being of ASEAN university students in the COVID-19 pandemic. It is conceivable that, given time, many ASEAN countries could transition to a COVID-19 endemic situation (i.e., unbridled living with COVID-19), where movement restrictions ease, and more activities would be allowed. As the students fully re-enter the academic institutions after the pandemic, healthy diet and PA should be considered as priority areas for health promotion among the AUN-HPN member universities. Additionally, conditions of poor mental wellbeing in university students, which are under-discussed and still stigmatized, should be carefully monitored. Existing university health promotion programs should continually be reviewed and renewed so that they can continue to stay relevant and effective for the benefit of university students across the seven ASEAN countries.

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Institutional Review Board Statement: This study protocols were undertaken in accordance with relevant local and international ethical guidelines and regulations, e.g., Declarations of Helsinki. The primary ethical approval for the whole study protocol was obtained from Mahidol University Central Institutional Review Board (MU-CIRB 2020/089.0704). Participating universities also obtained ethical approval from the relevant institutional review boards.

Informed Consent Statement: All student participants in the study were not minors and gave their informed online consent by clicking "I agree to participate" before completing the survey.

Data Availability Statement: The datasets generated and/or analyzed during the current study are not publicly available due to restrictions on intellectual property regulations of the funding organization. Data are, however, available provided that an application is submitted at info@thaihealth.or.th or areekulk@gmail.com and approved by the data custodians. No administrative process is required to access the datasets.

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