

http://ijssrr.com editor@ijssrr.com Volume 8, Issue 5 May, 2025 Pages: 263-275

Assessment of Lifestyle Among Conflict-Exposed Households: Basis for Home Economics Program Intervention

Aisah Manan¹; Irish Achondo²

¹ School of Graduate Studies, College of Education, Mindanao State of University – Iligan Institute of Technology, 9200, Philippines

² Department of Technology Teacher Education, College of Education, Mindanao State of University – Iligan Institute of Technology, 9200, Philippines

E-mail: aisah.manan@g.msuiit.edu.ph

http://dx.doi.org/10.47814/ijssrr.v8i6.2742

Abstract

Armed conflict has shown significant concern for security and safety, which disrupted an individual's daily life and negatively impacted their overall health and well-being (Kibret, 2023). Understanding how this different lifestyle affects an individual can help identify the support needed for improving their health and wellness. However, research on the different lifestyle factors behind the conflict-exposed household is limited. The main objective of this quantitative study was to assess the lifestyle of a hundred individuals in the Philippines who are exposed to distressing events related to conflict. Data were collected using an adapted and structured questionnaire and analyzed through descriptive and inferential statistical methods. The study examined lifestyle factors that affect health indicators in conflict-exposed individuals, revealing a complex pattern concerning sleep, physical activity, weight management, smoking habits, and food intake. The results indicated that a significant portion of the population maintains a sedentary lifestyle, possibly contributing to increased mortality rates. While a higher number of individuals have a normal Body Mass Index (BMI), attention is still required for those who need to manage their weight. The results also strongly correlated with the participants' demographic profiles and lifestyle factors. This implies that in order to improve the participants' general health and wellness, it is imperative that the health-related issues they are facing be addressed. To address these problems, an intervention program was also proposed and created utilizing the Home Economics framework. Administrators looking to enhance wellness may find this program a good starting point for promoting a healthy lifestyle.

Keywords: Lifestyle; Wellness; Conflict; Home Economics Education

1. Introduction

Armed conflict has shown significant concern about security and safety, which disrupts an individual's daily life and negatively impacts their overall health and well-being (Kibret, 2023). The disruption caused by the conflict altered an individual's lifestyle, affecting their sleeping patterns, food intake, physical Activity, and reliance on substances (i.e., cigarettes), which could potentially lead to long-term health issues—understanding how a lifestyle shift is necessary for creating intervention programs to improve quality of life and promote recovery and Resilience, especially considering the impact of conflict on vulnerable populations (Bernal et al., 2024; Kiwan, 2021).

The lifestyle concept has extended beyond individual choices, as it is a critical determinant of health, particularly in at-risk populations (Bagherzadeh et al., 2021). Factors such as gender, civil status, educational attainment, and employment status have collectively shaped lifestyle patterns and determined health outcomes (Wang et al., 2022; Khaw et al., 2022; Zeinali et al., 2016). In developing countries, especially those affected by conflict, the efforts to uplift life satisfaction and increase food availability have paradoxically resulted in poor food intake and sedentary lifestyles, while rising substance use has hindered the adoption of healthy lifestyles (Ndubuisi, 2021; Bovet & Paccaud, 2021). This study contends that assessing lifestyle factors such as sleeping patterns, physical Activity, weight management, and smoking habits would better understand the situation of those individuals who suffer from conflict.

Lifestyle interventions are pivotal in mitigating the risk and progression of these conditions (Amiri et al., 2024; Castle et al., 2023; Tariq et al., 2022). Home economics emphasizes everyday life skills that significantly contribute to an individual's lifestyle by teaching them practical skills for daily life management, critical thinking skills, and well-being to foster a healthy lifestyle (Kostanjevec & Kozina, 2021). These empower individuals to become self-reliant, create sustainable living practices, make informed food choices, and manage resources effectively (Bamalli, 2013). Therefore, home economics education contributes significantly to vulnerable populations by helping them become more resilient and adaptable, teaching them how to overcome challenges encountered, and promoting essential knowledge, skills, and values necessary for sustainable living and high quality of life. This study provides practical tools to help individuals and families navigate and adapt to their environment after experiencing conflict. This study aims to leverage the home economics discipline by designing a contextualized intervention program to promote wellness among vulnerable populations. The intervention program is designed for future testing and has not yet been implemented.

This study is important because it aligns with the United Nations Sustainable Development Goals (SDGs), especially SDG 2 (Zero Hunger), SDG 3 (Good Health and Well-being), which focus on ensuring healthy lives for everyone, SDG 4 (Quality Education), which aims for fair and quality education for all, and SDG 16 (Peace, Justice, and Strong Institutions). Thus, this study aims to assess the lifestyle patterns of those armed conflict-exposed individuals and use the results to develop a Home Economics-based intervention program that promotes sustainability and long-term wellness. Thus, this study aims to assess the lifestyle patterns of those armed conflict-exposed individuals and use the results to develop a Home Economics-based intervention program that promotes sustainability and long-term wellness.

2. Methodology

2.1 Research Design

This research employed a quantitative, descriptive correlation design to examine how lifestyle and nutritional behavior are associated with levels of food insecurity among conflict-exposed households. Without modifying the variables, this design is appropriate for finding and examining patterns and



Volume 8, Issue 5

correlations between them. The employed design can precisely identify the interconnectedness of these variables among the conflict-exposed households. Furthermore, this design is well-fitted for analyzing cross-sectional studies, making it helpful in collecting and analyzing information from a specific population's data at one particular moment.

2.2 Research Respondent and Sampling

The sample was determined using purposive sampling; four hundred respondents who have directly experienced a significant conflict or distressing event were selected to participate in the study. The target of the study is individuals 18 years and above who are informed about their family's access to food and consumption habits and are responsible for food procurement and meal preparation in the home. Purposive sampling is a non-probability sampling method in which participants are selected according to their unique traits or expertise pertinent to the study question (Bullard, 2024). The study judged this approach suitable because it meets an inclusion criterion.

2.3 Research Instrument

This study adopted the Conflict Exposure Checklist (Schmid & Muldoon, 2015). The checklist comprises 28 items that assessed the conflict experienced by the participants. Moreover, a demographic profile and structured questionnaire were also utilized in the study to assess lifestyle behavior, specifically on the respondents' exercise frequency, sleep length, smoking habits, and food intake.

2.4 Data Analysis

We used SPSS version 25 for descriptive and inferential statistical analysis in the study. We tabulated the summary of participants' lifestyle behaviors, eating habits, and food security using descriptive statistics such as frequencies, means, and standard deviations. Inferential statistics, particularly Pearson correlation analysis, were employed to assess the relationship between the independent variables (exercise frequency, sleep length, smoking status, and food choices) and the dependent variable (respondent's demographic profile). The Pearson correlation coefficient is a quantitative measure that measures the strength and direction of the linear relationship between two continuous variables. This analysis is sufficient and suitable for assessing the degree to which lifestyle factors are associated with the demographic profile of the participants. This parametric test implies normality and linearity, allowing for a more exact study of how the variables interact among respondents.

2.5 Ethical Consideration

This study has adhered to the ethical standards to ensure all participants' safety, dignity, and rights. The respondents were informed of their freedom to participate in answering the scales, whereas a consent form was provided outlining the rights and roles of the participants. Participants were told the study's full details, nature, and purpose and that all data would be secure and confidential. We encouraged the participants to ask questions or seek clarification if they encountered difficulties with the research details. Psychological support referral will be provided in case participation will lead to distress, considering the sensitive nature of food insecurity or conflict experiences.

3. Result and Discussion

This study aimed to determine the lifestyle pattern of individuals who are exposed to conflict. The following are the results of the data analysis conducted:



3.1 What Are the Lifestyle Patterns of Individuals Exposed to Armed Conflict in Terms of the Following Components: Sleeping Pattern, Food Intake, Physical Activity, Healthy Weight, and Smoking Habits?

Table 1: Lifestyle patterns in terms of sleep, food intake, physical activity, healthy weight management, and smoking habits.

Component	Level/Degree	Frequency			
_	_	Male	Female	Mean	Percentage
Sleeping Pattern					
	Less than 8 hours	41	69	55	28%
	7-9 hours	79	116	97.5	49%
	More than 8 hrs	38	57	47.5	24%
Physical Activity					
	No exercise	36	92	64	32%
	Less than 3 times	34	45	39.5	20%
	More than 3 times	88	105	96.5	48%
Healthy Weight					
Management	Underweight	32	24	28	14%
_	Normal	101	149	125	63%
	Overweight	23	39	31	16%
	Obese	2	30	16	8%
Smoking Habit					
-	Non-smoker	115	43	171.5	86%
	Smoker	228	14	28.5	14%
Food Intake					
	No	44	67	55.5	28%
	Less than 3 times a week	54	60	57	29%
	More than 3 times a week	60	115	87.5	44%

Table 1 presents the lifestyle patterns of conflict-exposed households regarding their sleeping pattern, physical Activity, healthy weight, smoking habits, and food intake. The majority of conflict-affected individuals (49%) who reported sleeping 7 to 9 hours a night were less likely to get less than 8 hours (28%) or to get more than 6 hours (24%). These findings suggest that sleep habits vary and that there is potential for improvement in sleep quality. More than half (48%) of respondents said they exercised more than three times a week, suggesting they were a fairly active group; 32% said they did not exercise, suggesting that inactive groups, especially women, need targeted interventions. Regarding weight, 63% had a normal body mass index, 14% were underweight, and 24% of the participants were considered overweight or obese, which may indicate issues in weight management brought about by stress or nutrition. While 14% of male respondents are reported smokers, a significant portion (86%) did not. Lastly, 29% said they skip meals less than three times a week, 28% said they did not, and 44% said they skip meals more than three times a week.

Lifestyle factors were analyzed to determine their impact on various health indicators, specifically sleeping patterns, physical Activity, weight management, smoking habits, and food intake among conflict-exposed individuals. The result is consistent with the previous study (Chakma & Gupta, 2017; Dziedzic et al., 2019), indicating an intricate pattern among participants' lifestyles. The evidence suggests a variation in the quality of sleep, physical activity level, weight management, smoking habits, and food intake of an individual. Although the result shows that 49% of participants have a duration of 7 to 9 hours, the recommended sleeping hours for adults (NIH, 2022), we cannot disregard those individuals who do not get optimal quality sleep. Sleep is an important pillar in achieving a healthy

lifestyle; disruption and poor-quality sleep can have far-reaching health consequences on an individual's overall well-being (Shochat, 2012; Hale et al., 2020; Makarem et al., 2022).

Conversely, physical Activity varies in intensity, and a significant portion of the population leads to a sedentary lifestyle. This scenario may lead to an increase in the mortality rate among the conflict victims. According to previous literature, having a sedentary lifestyle is linked to increased health risk (Kamakhya, 2017; Singh et al., 2025). This condition can be characterized by a lack of physical Activity and prolonged periods of sitting (Park et al., 2020; Silveria et al., 2022; Hanna et al., 2023). Weight management is important to achieving a healthy lifestyle (Fuglestad et al., 2012; Gardner et al., 2015). The result reveals that many conflict-exposed individuals can be categorized as having a normal body mass index. This signifies that, although they are experiencing food insecurity brought on by conflict exposure, this does not always equate to undernutrition or noticeable weight loss; rather, it usually reflects uneven availability of reasonably priced, balanced meals. Moreover, BMI does not measure diet quality, muscle mass, micronutrient status, or health risks but only measures the anthropometric characteristics of an individual (Nuttall, 2015).

Furthermore, the data demonstrates that a sizable portion of the population identifies as non-smokers; meanwhile, there is a higher prevalence of male smokers than female smokers. The relationship between gender and smokers was consistent with previous studies showing a higher number of male smokers than female (Chinwong et al., 2018; Syamlal et al., 2015; Agaku et al., 2024). This may lead to giving importance to smoking cessation programs and preventative measures in reducing the prevalence of tobacco use among conflict-exposed individuals. Regarding food intake, the result shows that there are times when they could skip meals. According to previous studies, skipping meals can result in lower energy intake and may be linked to higher levels of triglycerides and visceral adipose tissue (House et al., 2013). Decreasing meal frequency may be associated with more favorable serum lipid levels (Shirvani et al., 2025). Nevertheless, maintaining a regular food intake of nutritious meals is generally recommended for a healthy lifestyle (Pengpid et al., 2025).

Therefore, the intricate relationship between lifestyle decisions and health indicators highlights the need for comprehensive interventions that address multiple health determinants and promote healthy lifestyle choices across various populations. A comprehensive approach that considers social, environmental, and individual factors is required to improve overall health outcomes and reduce the burden of chronic diseases (Davis et al., 2022; Lee et al., 2020; Zsákai et al., 2023).

3.2 Does Lifestyle Behaviors Have a Significant Relationship Based on Demographic Variables (Gender, Civil Status, Education, And Employment.)?

Table 2: Analysis of the significant relationship in lifestyle behaviors based on demographic variables

Variable	Mean	SD	Sleeping Pattern	Physical Activity	Healthy Weight	Smoking Habit	Food Intake
Gender	1.4	0.489	0.021	.153**	218**	.300**	-0.057
Civil Status	1.22	0.55	0.027	-0.053	0.081	0.045	138**
Education	3.14	0.729	0.000	-0.008	.127*	-0.059	0.008
Employment	4.37	2.196	0.025	.124*	-0.076	154**	.139**

^{*}Correlation is significant at the 0.05 level (2-tailed).

^{**}Correlation is significant at the 0.01 level (2-tailed).

Table 2 shows the correlation data on the notable links between demographic factors and lifestyle choices. Men and women differ significantly in these behaviors; gender exhibits statistically significant connections with physical Activity (r = .153, p < 0.01), healthy weight (r = .218, p < 0.01), and smoking habits (r = .300, p < 0.01). Food intake is much connected with civil status (r = -.138, p = 0.01), suggesting that marital status could affect food consumption habits, maybe because of shared obligations or support systems. Healthy weight (r = .127, p = 0.05) is favorably correlated with education level, meaning improved weight control may follow higher educational achievement. Suggesting that working people are more physically active, smoke less, and have greater access to food; employment status also exhibits notable connections with physical Activity (r = .124, p < 0.05). These results underline the importance of focused wellness interventions in home economics education and the effect of sociodemographic elements on health-related activities.

The result of the study is aligned with a previous study in which the association of different lifestyle choices and demographic variables had a significant influence on the health outcomes of individuals (Alva, 2020). First, the findings of the study show that gender exhibits a positive relationship with the physical Activity and smoking habits of an individual. At the same time, it has a negative relationship with healthy weight. The result suggests that there are disparities in lifestyle between genders, which may be attributed to different factors, such as biological variation, societal expectations, and differences in health awareness, which may lead to inadequate well-being (Lee et al., 2020; Khaw et al., 2022). Moreover, the results regarding civil status indicate a negative relationship with food intake. This data indicates that conflict-exposed individuals in a certain civil status may have different dietary choices and needs (Dziedzic et al., 2019). Third, educational attainment has shown a significant positive correlation with healthy weight. The result is consistent with the study of McPhee et al. (2016), which shows that a higher level of educational attainment may increase the awareness and adherence of an individual to healthy weight management. Moreover, employment status is positively related to food intake but negatively correlated with smoking habits. These suggest that employment may be vital in shaping an individual's lifestyle (Sakai et al., 2023). Lastly, sleeping patterns and demographic variables have not shown a significant relationship at all.

3. How can Home Economics Education design an intervention program?

The proposed intervention program was designed for Home Economics to incorporate various components of lifestyles into its curriculum, including better quality sleep, physical Activity, healthy weight and wellness monitoring, smoke-free life skills, and nutrition for Resilience. The following are the recommended activities to improve and attain a healthy lifestyle.

Table 3: Proposed intervention program designed through Home Economics for Conflict-Affected Individuals

Component	Goal and Objectives	Coping Strategies	Intervention Activities	Expected outcomes
	Provide the individuals and families affected	> Conduct workshops or individual	>Workshop that addresses subjects such as optimizing	>Increased Sleep Duration
Better Quality	by conflict with home economics skills in resource	counseling sessions to educate	the sleep environment, maintaining a	>Reduced Sleep Disturbances
Sleep	management and home sleep practices for	individuals about healthy sleep habits.	consistent sleep schedule, and establishing a	>Enhanced Sleep Efficiency
	improving sleep quality, food	> Offer training	relaxing bedtime routine	>Restorative Sleep

	choices that	in relaxation		
	could mitigate	techniques such	>Utilize evidence-	
	nutritional	•		
	deficiencies that	as deep breathing exercises,		
		· ·	such as Cognitive Behavioral	
	may contribute to	progressive		
	poor sleep, and	muscle	Therapy for	
	reduced	relaxation,	Insomnia or Eye	
	dependency on	mindfulness	Movement	
	substances-with	meditation, or		
	an end goal of	yoga.	and Reprocessing,	
	improving	D 11	to resolve trauma-	
	overall health and	> Provide	related sleep	
	sustainable	resources and	issues.	
	living.	support to	TO 1 1 1 1	
		improve the	>Distribute goods	
		sleep	such as blankets,	
		environment of	pillows,	
		conflict-exposed	mattresses, and	
		individual	earplugs. Provide	
			support in the	
			establishment of a	
			secure and tranquil	
			sleeping	
			environment.	
	Through home	>Plan group	>Home-based	>Increased physical
	economics	workouts in	exercises	activity, for men and
	education, foster	easily available,	3.6	women of all age.
	healthier family	safe community	> Movement	
	and community	venues.	integrated with	
	environments by		chores	
	ensuring that	>Create	. 337 11 ' 1	
	women, men, and	customized	>Walking and	
	gender minorities	workout routines	fitness groups	
	affected by food	for each person		
	insecurity and		>Organize and invite Zumba	
Dlausia al A ativita	conflict have	completed at		
Physical Activity	equitable access	home using few	instructor	
	to customized and regular	tools.		
	physical exercise options,	Encourage		
		>Encourage		
	promoting family	cycling or		
	resilience, and	walking as a		
	contributing to	form of mobility		
	community	for necessary		
	health through	events like		
	improved	visiting services or the market.		
	nutrition and active lifestyles.	or the market.		
G 1 E 7:3	Promote healthier	> Motivate	>Peer-led quit	>Decreased smoking
Smoke-Free Life	1 Tomote meaning	/ wionvate	/ I cor-ica quit	/ Decreased silloking

Skills	coping	individuals to	groups	rates; improved
	mechanisms and	seek assistance		awareness of
	reduce smoking	from family,	>Stress-relief	smoking's effects
	dependence	friends, and	alternatives	
	among	colleagues who	(cooking,	
	individuals	can offer	handicraft making,	
	affected by	accountability	sewing)	
	conflict through	and	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	home economics	encouragement.	> Role-plays	
	programs by	one o un ugomono.	y more plays	
	teaching stress	> Empower		
	management	individuals to		
	techniques,	promote for		
	building social	smoke-free		
	support systems,	policies in their		
	facilitating access	communities.		
	to smoking	communities.		
	cessation			
	·			
	C			
	insecurity with education on			
	food preparation,			
	preservation, and			
	access to local			
	resources,			
	thereby			
	enhancing overall			
	health and			
	resilience.	~		
	Analyze home	>Guide	>Weight & waist	
	economics	individual on	tracking	management,
	concepts to guide	healthy eating		awareness of sleep-
	persons whose		>Sleep and food	diet-weight link
	-	> Connect with	journals	
	affected by	mentors who can		
	conflict in the	offer	> Invite doctors	
	development of	encouragement,	for basic health	
Healthy Weight	an extensive plan	support, and	checks	
& Wellness	for wholesome	guidance as you		
	diet (indicating	embark on the		
Monitoring	food availability	path to a healthy		
	and local	weight and		
	ingredients) and	overall well-		
	exercise	being.		
	(considering			
	what is available			
	and culturally			
	appropriate) and			

	T	T		,
	(dealing with			
	stress and			
	trauma), while			
	continuously			
	monitoring the			
	lifestyle factors			
	affecting food			
	security and			
	nutrition in these			
	communities in			
	search of viable			
	long-term			
	solutions that			
	respect and			
	protect the			
	environment to			
	promote better			
	health.			
	Through home	> Establish	> Make	>Improved dietary
	economics,	community	community garden	habits, increased
	support conflict-	support by	> Cooking demos	food intake among
	affected persons	making a	using affordable	food insecure
	to improve their	community	foods	
	wellbeing and	garden to		
	eating practices.	promote healthy	> Teach individual	
	With a focus on	eating	on Meal planning	
	long-term healthy			
	practices and	>Support food	> Portion &	
	resilience,	assistance	frequency	
	develop an all-	program	education	
	encompassing			
	approach to			
Nutrition for	honor local			
Resilience	cultural practices,			
	building nutrition			
	knowledge and			
	practical,			
	inexpensive local			
	food options,			
	supporting			
	people to engage			
	with local			
	community			
	initiatives for			
	healthier food,			
	and including			
	emotional			
	supports for food.			

Volume 8, Issue 5

Table 3 showcases the suggested intervention activities designed to enhance and encourage healthy lifestyles among victims of conflict. The research reveals that households exposed to conflict often exhibit poor lifestyle choices. Such results trace back to how lifestyle has a significant influence on the overall well-being of a person. Thus, this proposed program tailored to home economics education is necessary to support victims of conflict in achieving a healthy lifestyle. Significantly, this proposed intervention program aims to address issues encountered by those individuals. This initiative should be added to the home economics program and can help the administrator improve wellness.

Conclusion

Notwithstanding its limitations, the study was able to provide some important insight. The study assessed lifestyle factors, such as sleeping patterns, physical Activity, healthy weight, smoking habits, and food intake. The result shows a varying impact of armed conflict on the lifestyle behavior of conflict victims. Although many people exposed to conflict report enough sleep, regular physical Activity, and a good weight, the study exposes notable differences, especially in sleep quality, female physical inactivity, and cases of under- or overweight. Men smoke more often than women, and skipping meals is a common sign of nutritional problems. Demographic elements, including gender, education, civil status, and job, influence lifestyle habits. These results show the need for focused, home economics-based wellness programs addressing gender inequalities, encouraging good practices, and supporting the general well-being of households affected by conflict. In addition, home economics has greatly helped advance policy-making and improve well-being by teaching common skills that help in being self-reliant and problem solvers that help make better decisions and promote healthy lifestyles.

Limitation of the Study

One of the limitations of this study is its reliance solely on quantitative data, which may not fully capture the personal experiences and underlying reasons behind lifestyle behaviors among conflict-affected individuals. The absence of qualitative perspectives limits a deeper understanding of how conflict impacts daily choices related to food, Activity, and health. In addition, the psychological factors that strongly affect the behavior and well-being were not accounted for. A mixed-methods approach, including interviews or focus groups, is suggested to explore individual experiences more thoroughly. Expanding the study to include psychological and environmental variables would also offer a more holistic view and help design more responsive, culturally sensitive interventions—especially those grounded in home economics education and policy support.

References

- Agaku, I. T., Onasanya, O. A., & Vardavas, C. I. (2023). Gender differences in the use of cigarette and non-cigarette tobacco products among adolescents. *Journal of Men's Health*, 3(2), Article 17. https://doi.org/10.3390/jmh3020017.
- Alva, M. (2020). Co-occurrence of diabetes and depression in the U.S. PLoS ONE, 15(6). https://doi.org/10.1371/journal.pone.0234718.
- Amiri, S., Mahmood, N., Junaidi, S., & Khan, M. A. B. (2024). Lifestyle interventions improving health-related quality of life: A systematic review and meta-analysis of randomized control trials. *Journal of Education and Health Promotion*, *13*, 193. https://doi.org/10.4103/jehp.jehp_1156_23.

- Bagherzadeh, R., Gharibi, T., Safavi, B., Mohammadi, S. Z., Karami, F., & Keshavarz, S. (2021). Pregnancy; an opportunity to return to a healthy lifestyle: a qualitative study. BMC Pregnancy and Childbirth, 21(1). https://doi.org/10.1186/s12884-021-04213-6.
- Bamalli, H. S. (2013). Competencies and Strategies for the Teaching of 21st Century Learners in Vocational Home Economics Education. Journal of Educational and Social Research. https://doi.org/10.5901/jesr.2013.v3n9p105.
- Bernal, Ó., Forero, A. M., Vargas, I., & Rodríguez, D. C. (2024). Impact of the armed conflict in Colombia: Consequences in the health system, response, and challenges. Revista de Salud Pública, 21(3), 321–327.
- Bovet, P., & Paccaud, F. (2011). Cardiovascular Disease and the Changing Face of Global Public Health: A Focus on Low and Middle Income Countries. Public Health Reviews, 33(2), 397. https://doi.org/10.1007/bf03391643.
- Bullard, E., (2024). Purposive sampling. EBSCO Research Starters. https://www.ebsco.com/research-starters/social-sciences-and-humanities/purposive-sampling
- Castle, E. M., Greenwood, S. A., & Müller, R.-U. (2023). The importance of lifestyle interventions in the prevention and treatment of chronic kidney disease. *Kidney Dialysis*, 3(2), 192–195. https://doi.org/10.3390/kidneydial3020017.
- Chakma, J. K., & Gupta, S. (2017). Lifestyle practice and associated risk factors of noncommunicable diseases among the students of Delhi University. International Journal of Health & Allied Sciences, 6(1), 20. https://doi.org/10.4103/ijhas.ijhas_34_16.
- Chinwong, D., Mookmanee, N., Chongpornchai, J., & Chinwong, S. (2021). Gender differences in use of cigarette and non-cigarette tobacco products among adolescents in Thailand. Tobacco Induced Diseases, 19, 32. https://doi.org/10.18332/tid/169753.
- Kostanjevec, S., & Kozina, F. L. (2021). Home Economics Education as Needed in the 21st Century. Center for Educational Policy Studies Journal, 11(4), 7. https://doi.org/10.26529/cepsj.1348.
- Davis, J., Blunden, S., BoydPratt, J., Corkum, P., Gebert, K., Trenorden, K., & Rigney, G. (2022). Healthy sleep for healthy schools: A pilot study of a sleep education resource to improve adolescent sleep. Health Promotion Journal of Australia, 33, 379. https://doi.org/10.1002/hpja.594.
- Dziedzic, M., Dziubak, M., Matuszyk, D., & Sibiga, E. (2019). Socio-demographic determinants of health-related lifestyle and self-assessment of health in women. Problemy Pielęgniarstwa, 27, 181. https://doi.org/10.5114/ppiel.2019.92541.
- Fuglestad, P. T., Jeffery, R. W., & Sherwood, N. E. (2012). Lifestyle patterns associated with diet, physical activity, body mass index and sleep. Health Education Research, 27(2), 292–302. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4542001/.
- Gradner, M., Grandner, M. A., Jackson, N., Gerstner, J. R., & Knutson, K. L. (2018). Sleep symptoms associated with intake of specific dietary nutrients. Journal of Sleep Research, 27(1), e12480. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6220393/.
- Hale, L., Troxel, W., & Buysse, D. J. (2020). Sleep health: An opportunity for public health to address health equity. Public Health Reports, 135(1), 1–3. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7700832/.

- Hanna, F., Yang, H., Montero, A., Akter, S., & Rahman, M. M. (2023). Lifestyle and mental health among conflict-affected populations: A scoping review. Frontiers in Public Health, 11, Article 1265814. https://doi.org/10.3389/fpubh.2023.1265814.
- Health Interview Survey. *Nicotine & Tobacco Research*, 17(10), 1181–1191. https://doi.org/10.1093/ntr/ntu185.
- House, B. T., Shearrer, G. E., Miller, S. J., & Belury, M. A. (2012). Meal frequency and timing are associated with changes in body composition in college-age males. International Journal of Behavioral Nutrition and Physical Activity, 9, Article 79. https://doi.org/10.1186/1479-5868-9-79.
- Kamakhya, P. K., Saikia, H., & Deka, S. (2023). Physical activity and sedentary behavior among conflict-affected individuals: A public health perspective. *Frontiers in Public Health*, *10*, Article 1265814. https://doi.org/10.3389/fpubh.2023.1265814.
- Khaw, W.-F., Nasaruddin, N. H., Alias, N., Chan, Y. M., Tan, L., Man, C. S., Ganapathy, S. S., Yusoff, M. F. M., & Yong, H. Y. (2022). Socio-demographic factors and healthy lifestyle behaviours among Malaysian adults: National Health and Morbidity Survey 2019. Scientific Reports, 12(1). https://doi.org/10.1038/s41598-022-20511-1.
- Kibret, G. D. (2023). Maternal and newborn health services accessibility, utilisation and neonatal mortality in Ethiopia. Library.
- Kiwan, M. C. (2021). Social determinants of maternal and neonatal birth outcomes among Syrian refugees in Lebanon. Library.
- Lee, M., Park, S., & Lee, K. (2020). Relationship between Morbidity and Health Behavior in Chronic Diseases. Journal of Clinical Medicine, 9(1), 121. https://doi.org/10.3390/jcm9010121.
- Makarem, N., St-Onge, M.-P., & Aggarwal, B. (2022). The impact of poor sleep on cardiovascular disease risk: A review of the epidemiologic and clinical evidence. *Progress in Cardiovascular Diseases*, 73, 75–84. https://doi.org/10.1016/j.pcad.2022.05.002.
- McPhee, J. S., French, D., Jackson, D., Nazroo, J., Pendleton, N., & Degens, H. (2016). Physical activity in older age: perspectives for healthy ageing and frailty [Review of Physical activity in older age: perspectives for healthy ageing and frailty]. Biogerontology, 17(3), 567. Springer Science+Business Media. https://doi.org/10.1007/s10522-016-9641-0.
- National Heart, Lung, and Blood Institute. (n.d.). How much sleep is enough? U.S. Department of Health and Human Services. https://www.nhlbi.nih.gov/health/sleep/how-much-sleep.
- Ndubuisi, N. E. (2021). Noncommunicable Diseases Prevention In Low- and Middle-Income Countries: An Overview of Health in All Policies (HiAP) [Review of Noncommunicable Diseases Prevention In Low- and Middle-Income Countries: An Overview of Health in All Policies (HiAP)]. INQUIRY The Journal of Health Care Organization Provision and Financing, 58. SAGE Publishing. https://doi.org/10.1177/0046958020927885.
- Nuttall, F. Q. (2015). Obesity, BMI, and health: A critical review. Nutrition Today, 50(3), 117–128. https://doi.org/10.1097/NT.000000000000092.
- Park, J. H., Moon, J. H., Kim, H. J., Kong, M. H., & Oh, Y. H. (2020). Sedentary lifestyle: Overview of updated evidence of potential health risks. *Korean Journal of Family Medicine*, 41(6), 365–373. https://doi.org/10.4082/kjfm.20.0165.



Volume 8, Issue 5 May, 2025

- Pengpid, S., & Peltzer, K. (2025). Association between meal frequency and diet quality among adults in Southeast Asia. Nutrition Journal, 24, Article 16. https://doi.org/10.1186/s12937-025-01118-4.
- Shirvani, Z., Shab-Bidar, S., & Djafarian, K. (2024). Meal frequency and its association with serum lipid profile and visceral fat in adults: A systematic review. Obesity Reviews, 25(3), e20487. https://doi.org/10.1002/oby.20487.
- Silveira, E. A., Mendonça, C. R., Delpino, F. M., Souza, G. V. E., Rosa, L. P. S., de Oliveira, C., & Noll, M. (2022). Sedentary behavior, physical inactivity, abdominal obesity and obesity in adults and older adults: A systematic review and meta-analysis. *Clinical Nutrition ESPEN*, *52*, 134–149. https://doi.org/10.1016/j.clnesp.2022.06.001.
- Shochat, T. (2012). Impact of lifestyle and technology developments on sleep. Nature and Science of Sleep, 19. https://doi.org/10.2147/nss.s18891
- Singh, R. K., Rahman, A., & Singh, M. (2025). Sedentary behavior and health risks in post-conflict zones: A systematic review. Journal of Health, Population and Nutrition, 44, Article 21. https://doi.org/10.1186/s41043-025-00869-4.
- Syamlal, G., Mazurek, J. M., Hendricks, S. A., & Jamal, A. (2015). Cigarette smoking trends among U.S. working adults by industry and occupation: Findings from the 2004–2012 National.
- Tariq MNM, Stojanovska L, Dhaheri ASA, Cheikh Ismail L, Apostolopoulos V, Ali HI. Lifestyle Interventions for Prevention and Management of Diet-Linked Non-Communicable Diseases among Adults in Arab Countries. Healthcare (Basel). 2022 Dec 23;11(1):45. doi: 10.3390/healthcare11010045. PMID: 36611505; PMCID: PMC9819169.
- Wang, C., Yan, S., Jiang, H., Guo, Y., Gan, Y., Lv, C., & Lu, Z. (2022). Socio-demographic characteristics, lifestyles, social support quality and mental health in college students: A cross-sectional study. *BMC Public Health*, 22, Article 1583. https://doi.org/10.1186/s12889-022-14002-1.
- Zeinali, F., Habibi, N., Samadi, M., Azam, K., & Djafarian, K. (2016). Relation between lifestyle and socio-demographic factors and body composition among the elderly. *Global Journal of Health Science*, 8(8), 172–179. https://doi.org/10.5539/gjhs.v8n8p172.
- Zsákai, A., Rátz-Sulyok, F. Z., Koronczai, B., Varró, P., Tóth, E., Szarvas, S., Tauber, T., Karkus, Z., & Molnár, K. (2023). Risk and protective factors for health behaviour in adolescence in Europe. Scientific Reports, 13(1). https://doi.org/10.1038/s41598-023-45800-1.

Copyrights

Copyright for this article is retained by the author(s), with first publication rights granted to the journal.

This is an open-access article distributed under the terms and conditions of the Creative Commons Attribution license (http://creativecommons.org/licenses/by/4.0/).