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Research Article

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Healthy Lifestyle among Ha'il University Students, Saudi Arabia

Fahad D. Algahtani

Public Health department, College of Public Health and Health Informatics, University of Ha'il, Ha'il, KSA.

Email:dr.algahtani@gmail.com

ABSTRACT

This study was conducted to determine the healthy lifestyle behaviors of students of the University of Ha'il in using various variables. This descriptive-analytical investigation is made out of 335 students from the University of Ha'il, Saudi Arabia and included information about lifestyle patterns in terms of age, sex, BMI, study field and year of study. About 33.8% of university students followed unhealthy eating patterns and there was no difference concerning their eating habits. Students' health responsibility was identified with the distinctive variable, which was too less with an undesirable score. The results showed that the awareness of university students on the rules of intermittent medicinal assessment was undesirable in all study samples.

Key words: *Healthy Lifestyle, university students, healthy eating patterns.*

INTRODUCTION

Despite young people's lifestyle awareness becomes clear that has beneficial effects on health, they do not have healthy life habits [1]. People's lifestyles have changed from active daily movement and good dietary consumption to sedentary and inactive mobility and elevated intake of fat and sugar [2]. Healthy lifestyle patterns are considered one of the health-related practices that affect the performance and the future health of the youth [3]. Healthy lifestyle behaviors are not only aimed at preventing a disease or illness but also at improving the overall health of a person [4]. Improving health and a healthy lifestyle is important for societies that are trying to advance and develop strategies for sustainable development, and refrain from allocating budgets to lifestyle diseases [5]. There is an increase in chronic diseases in developing countries that emphasize the significance of health services which should be done in a manner that protects endures and improves health [3, 6, 7]. Many chronic diseases could be caused due to the immobile lifestyle, where healthy lifestyle habits can decrease diseases [8-10]. Relationship of low-mobility lifestyle and disorders such as cardiovascular disease, low coping ability with stress, depression, low productivity, and absence from the work environment has been indicated [11]. Having healthy lifestyles such as exercise, a healthy diet [12], quitting smoking, sun exposure, stress management, and healthy sleep patterns have a great role in the prevention of different diseases [13] such as obesity, diabetes, cardiovascular diseases and some types of cancer [14-16]. The modification of lifestyle is essential for physicians offering family care [17]. Nutrition is described as the selection and management of the individual's meals and the value of his food. The health level of students becomes a potential social problem and needs intervention. Stress management is the monitoring of physiological and psychological resources and their activation to control and reduce its severity [18]. There is no room for doubt on the significance of periodic medical examination [19]. It is probably much more prevalent in ordinary social circumstances that students lack healthy lifestyle habits as a consequence of extended studying hours, difficulties in organizing rest and activity time, and watching TV for lengthy moments [20]. Students at universities are the population most

probable to suffer from nutritional illness, lack of mobility, and increasing the incidence of smoking. Bad behavior changes are critical in protecting and improvement of student health. Scientific research conducted in the Gulf region indicates the growing of chronic diseases among students as a result of incorrect health practices and lifestyle modifications owing to many modifications in the socioeconomic status in this region [21]. The significance of the research is due to reports showing greater chronic disease hazards among university students. Therefore, the research aimed to monitor the personal, nutritional, life and health risks of University of Ha'il students in humanitarian and health colleges to profit from the research outcomes to conduct educational programs and rising the health awareness at the university levels.

MATERIALS AND METHODS

A cross-sectional/descriptive and analytical approach was used to suit the study in which 335 students from the University of Ha'il, Saudi Arabia participated; the study was conducted using a valid survey. A lifestyle questionnaire was prepared and applied to evaluate healthy lifestyle patterns. Data was collected from March 2018 to May 2019 with the aid of the web application. The prepared questionnaire contains general questions about the students (age, sex, BMI, study field, and year of study). 192 (57.31%) questions were answered by male students while 143 (42.69%) were answered by female students. The survey is accompanied by two lists (20 questions of each), which were collected and prepared from previous studies [1, 3, 4, 20, 22, 23]. The questionnaire contained questions of multiple choices that were calculated based on a three-point Likert scale. The scores of 1-1.67 were regarded as undesirable, scores of 1.67-2.34 were deemed semi-desirable, and scores of 2.34-3 were deemed desirable. The survey was used to assess the difference between males and females in health-promoting lifestyle in University of Ha'il, to determine the effect of socioeconomic factors on healthpromoting lifestyle, to assess the difference in lifestyle behaviors between first and last year students and to assess the difference in lifestyle patterns between students of health colleges and students of humanitarian colleges. The age of the research participants ranged from 16 to 26 years old and the participant should be registered as a student at the University of Ha'il. SPSS 21.0 software was used for the statistical analysis of the compiled data through surveys.

RESULTS AND DISCUSSION

The university aims at spreading knowledge, developing it and contributing to the advancement of thought as well as carrying out scientific research, encouraging it and employing it in facing the challenges of society and solving its problems. One of the goals of the university is to build the personality of the students, develop their skills and launch their potential to take responsibility and serve the community. Therefore, it requires the building of a true university student physically, mentally, psychologically and socially as they are the main axes of health. The university has a role to play in pushing for a healthy life for the student to encourage him to unleash his energies to achieve the required responsibilities, as university's youth are the tools of change towards the sustainable development of society.

Healthy nutrition and drinking enough water daily are important parts of a healthy lifestyle that are overlooked by many people who believe that nutrition is linked to their desires and is often influenced by societal norms. The study sample was asked a number of questions, including the main meal. Dinner was the largest with about 42.1% and consisted of a large proportion of meat and meat products. When asked about the consumption of vegetables and fruits in their daily diet, 34.6% of the students did not consume vegetables and fruits, and 33.8% consumed very little vegetables and fruits [24-26]. Also, the statistical results in this study showed that the average daily drinking water did not statistically differ significantly between all the studied variables, which came at very low averages and achieved an undesirable score [27]. The investigation likewise demonstrated that the average of all scores with respect to healthy sleep habits for all participants identified with diverse variables was a semi-desirable score and there were no statistically significant differences (p > 0.05) in all studied variables.

Most students said they didn't smoke. The percentage difference representation of smokers among students of both colleges, however, was 15.9% in favor of health students. In terms of the first year and last year variables, students of last year smoked more with statistically significant differences (Table 3) [20].

Our study demonstrated that the average total score regarding students' health responsibility identified with the distinctive variable is too less, i.e. 1.19 out of 3.00, with a statistically significant difference ($p \le 0.005$), achieving undesirable score. This data complies with that found by [3].

When the study sample was asked about the practice of periodical medical examination (on-time vaccination, eye examination, medical examination, blood glucose testing, blood pressure monitoring, and lipid profile screening), all of the results were undesirable (less than 1.67) based on the three-point Likert scale (Tables 1 and 3) and there was no significant difference in terms of gender and BMI variables (P>0.05). The results of the dental examination showed significant differences in terms of gender variable (P>0.05) with a semi-desirable scale in favor of female students. This affirms the decrease of care among students about the practice of periodical medical examination and intends to put resources into their health. Furthermore, those outcomes concurred with what was accounted for by [28], which indicated that students in Pakistan had awareness about the information and practice of intermittent medicinal assessment, yet lack the practice.

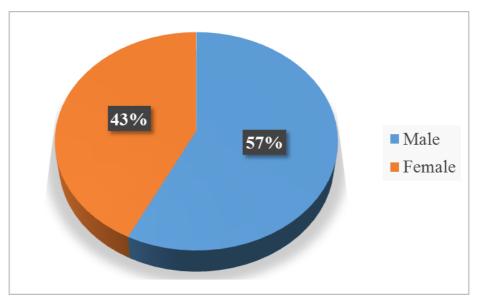


Fig. 1. Distribution of participants according to gender.

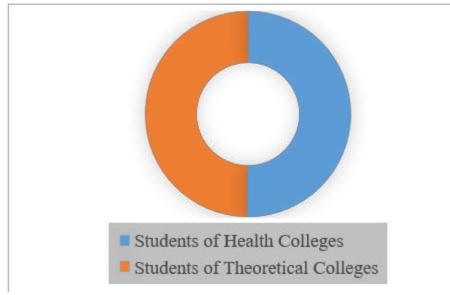


Fig. 2. Distribution of participants according to the study field.

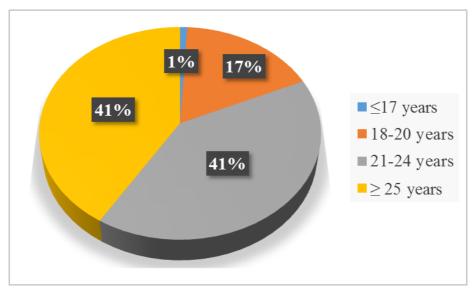


Fig. 3. Distribution of participants according to their age.

 Table 1: Healthy lifestyle differences between Humanitarian and Health Colleges.

		Gender	N/%	Mean	Std. Deviation	P-value
Nutrition	Humanitarian Colleges	Female	110	1.6545	.68317	.482
		Male	64	1.7344	.71807	
	Health Colleges	Female	33	1.6364	.65279	
		Male	127	1.7795	.67745	
Drinking enough water	Humanitarian Colleges	Female	110	1.5455	.72487	.560
		Male	64	1.4531	.66499	
	Health Colleges	Female	33	1.3636	.54876	
		Male	128	1.4922	.67575	
Healthy Sleep Habits	Humanitarian Colleges	Female	110	2.1273	.71817	.344
		Male	64	2.2031	.59574	
	Health Colleges	Female	33	2.3333	.69222	
		Male	125	2.2480	.61770	
Smoking	Humanitarian Colleges	Female	110	2.9273	.32366	.000
		Male	64	2.4844	.85435	
	Health Colleges	Female	32	2.7813	.60824	
		Male	128	2.3750	.86943	
Health responsibility	Humanitarian Colleges	Female	110	1.2636	.58541	.005
		Male	64	1.1719	.41993	
	Health Colleges	Female	32	1.1875	.47093	
		Male	125	1.0560	.26348	
On-time vaccination	Humanitarian Colleges	Female	114	1.2982	.69039	.420
		Male	59	1.3559	.68889	
	Health Colleges	Female	35	1.3143	.71831	
		Male	124	1.4516	.79995	
Eye examination	Humanitarian Colleges	Female	114	1.4474	.75366	.105
·		Male	59	1.4237	.74749	
	Health Colleges	Female	35	1.4857	.78108	
		Male	124	1.2500	.61980	
Medical examination	Humanitarian Colleges	Female	114	1.3333	.61926	.057
		Male	59	1.2712	.48532	
	Health Colleges	Female	35	1.3143	.52979	
		Male	124	1.1613	.36929	

Blood glucose testing	Humanitarian Colleges	Female	114	1.3158	.58470	.972
		Male	59	1.2881	.52689	
	Health Colleges	Female	35	1.3429	.59125	
		Male	124	1.3226	.57803	
Dental examination	Humanitarian Colleges	Female	114	1.7456	.76206	.000
		Male	59	1.4068	.56075	
	Health Colleges	Female	35	1.6000	.81168	
		Male	124	1.3548	.61411	
Blood pressure monitoring	Humanitarian Colleges	Female	114	1.4035	.64793	.203
		Male	59	1.3898	.64372	
	Health Colleges	Female	35	1.4857	.74247	
		Male	124	1.2742	.51543	
Lipid profile screening	Humanitarian Colleges	Female	114	1.2544	.52901	.400
		Male	59	1.1525	.36263	
	Health Colleges	Female	35	1.1714	.38239	
		Male	124	1.1774	.38357	

Table 2: Healthy lifestyle with different study years

		Gender	N	Mean	Std. Deviation	P-value
Nutrition	first year students	Female	36	1.6389	.68255	.303
		Male	23	1.9565	.56232	
	last year students	Female	34	1.7059	.62906	
		Male	105	1.8095	.72185	
Drinking enough water	first year students	Female	36	1.5000	.69693	.879
		Male	23	1.5652	.78775	
	last year students	Female	33	1.6061	.70442	
		Male	105	1.5048	.65227	
Healthy Sleep Habits	first year students	Female	36	2.1667	.69693	.478
		Male	22	2.1364	.63960	
	last year students	Female	34	2.0882	.75348	
		Male	105	2.2667	.57624	
Smoking	first year students	Female	34	2.9412	.23883	.000
		Male	23	2.6522	.71406	
	last year students	Female	34	2.9118	.37881	
		Male	105	2.2857	.90633	
Health responsibility	first year students	Female	34	1.1765	.45863	.004
		Male	23	1.0435	.20851	
	last year students	Female	34	1.4545	.75378	
		Male	105	1.1373	.39899	

Table 3: Healthy lifestyle with a different body-mass index.

	BMI	N	Mean	Std. Deviation	P-value	
Nutrition	Underweight	27	1.4815	.70002	.002	
	Normal	146	1.8219	.66109		
	Overweight	91	1.7802	.66336		
	Obese	70	1.5000	.69678		

Drinking enough water	Underweight	27	1.4444	.64051	.781
· -	Normal	147	1.5306	.71487	
	Overweight	90	1.4667	.65686	1
	Obese	70	1.4429	.65132	
Healthy Sleep Habits	Underweight	25	2.0800	.75939	.497
	Normal	147	2.1905	.65515	-
	Overweight	91	2.2857	.63746	_
	Obese	69	2.1884	.64797	-
Smoking	Underweight	27	2.6667	.67937	.112
·	Normal	146	2.5068	.82417	-
	Overweight	91	2.7253	.66776	1
	Obese	69	2.6957	.67092	
Health responsibility	Underweight	27	1.1111	.42366	.704
	Normal	145	1.1448	.42458	
	Overweight	87	1.1494	.41843	
	Obese	66	1.2121	.54109	
On-time vaccination	Underweight	27	1.3704	.74152	.438
	Normal	145	1.3517	.72199	
	Overweight	86	1.3372	.71308	
	Obese	59	1.5254	.85814	
Eye examination	Underweight	27	1.5556	.84732	.151
·	Normal	145	1.4414	.78063	
	Overweight	86	1.2558	.57775	
	Obese	59	1.3559	.66340	
Medical examination	Underweight	27	1.2222	.50637	.825
	Normal	148	1.2432	.50334	1
	Overweight	86	1.2674	.49526	
	Obese	58	1.3103	.53662	
Blood glucose testing	Underweight	27	1.2963	.46532	.734
	Normal	149	1.2953	.56357	1
	Overweight	86	1.3605	.61190	1
	Obese	58	1.3793	.61637	1
Dental examination	Underweight	27	1.4815	.64273	.339
	Normal	149	1.5906	.74447	1
	Overweight	86	1.5349	.66328	1
	Obese	58	1.3966	.64725	†
Blood pressure monitoring	Underweight	26	1.2308	.42967	.276
,	Normal	148	1.3581	.63898	1
	Overweight	86	1.4767	.66380	1
	Obese	57	1.3509	.58221	1
Lipid profile screening	Underweight	26	1.2692	.45234	.589
-	Normal	148	1.1824	.43701	1
	Overweight	86	1.2442	.48352	1
	Obese	58	1.1724	.38104	+

CONCLUSION

In conclusion, the outcomes of this study demonstrated that healthy lifestyle behaviors of students of the University of Ha'il were in the challenge as about 33.8% of university students followed unhealthy eating patterns and there was no difference concerning their eating habits. Students' health responsibility identified with the distinctive variables is too less with an undesirable score. The results showed that the awareness of university students on the rules of intermittent medicinal assessment was undesirable in all study samples.

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Conflict of interest

None.

Ethical approval

This study does not involve any human or animal testing; this study was approved by the Scientific Research Ethics Committee, University of Ha'il; this study conforms to the Declaration of Helsinki, US.

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