

A Study of Prevalence of Obesity among Female Students in Sohag University

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Abstract

Introduction: Obesity is a medical case in which extra body fat has stored to the extent that it may have a harmful effect on health. People are generally measured obese when their body mass index (BMI), a measurement obtained by dividing a person's weight by the square of the person's height, is over 30 kg/m², with the range 25–30 kg/m² defined as overweight. Some East Asian countries use lower values.

Aim of the work: Find out the prevalence of overweight and obesity among female students in Sohag University, and identify important risk factors.

Patients and Methods: Cross sectional study, included a sample of female students aged 17-25 in the selected faculties in Sohag University, the study was carried out in Faculty of Medicine, Faculty of Nursery and Faculty of Education in Sohag University, the questionnaire was divided into five parts, the demography, dietary habits, physical activity, perceptions of body weight and beliefs of obesity and the record of self-reported and actual anthropometric body measurements.

Results: Overweight and obesity were prevalent among the our study subjects as the prevalence was 38.5%, lack of physical activity, soft drink consumption and marital status were significantly associated with obesity, our students preferred dairy products and fatty foods over vegetables and fruits. In addition, their "lack of time" was the most frequently mentioned barrier to eating a healthy diet and engaging in regular exercise. Life style modification is important to improve healthy habits earlier in life.

Conclusion: Overweight and obesity were prevalent among the our study subjects as the prevalence was 38.5%.

Key words: Obesity, female, sohag university.

Introduction

Obesity is a medical case in which extra body fat has stored to the extent that it may have a harmful effect on health. People are generally considered obese when their body mass index (BMI), a measurement obtained by dividing a person's weight by the square of the person's height, is over 30 kg/m², with the range 25–30 kg/m² defined as overweight. Some East Asian countries use lower values ⁽¹⁾.

Obesity is most commonly caused by a combination of extreme food intake, physical inactivity, and genetic predisposition. A little cases are caused primarily by genes, endocrine diseases, medication, or mental illness. Suggestion to support the view that obese people eat minute yet gain weight due to a slow metabolism is not generally maintained. On usual, obese people have better energy expenditure than their thin

counterparts due to the energy required to maintain an increased body mass. Obesity increases the likelihood of various diseases, particularly heart disease, type 2 diabetes, obstructive sleep apnea, certain types of cancer and osteoarthritis ⁽²⁾.

The percentage of adolescents who are overweight or obese is quickly increasing worldwide. Adolescence is a susceptible period for the development of obesity and also appears to be a serious period for creating risk factors for some chronic diseases in adulthood. Existing statistics indicate that an alarming percentage of people in most arab countries hurt from obesity. Studies have exposed that the incidence of overweight and obesity among adolescents in arab countries ranges from 18% to 44%. Overall, overweight has been found to be more predominant than obesity in both males and females. However,

the incidence of obesity by gender at the adolescent period (10–18 years) does not indicate the same trend. In countries such as Bahrain, Egypt, Tunisia, Kuwait, and Qatar, the incidence of overweight is higher among females than males. In some countries such as Lebanon and the United Arab Emirates (UAE), the incidence of overweight and obesity is higher in boys than girls⁽³⁾.

Aim of the work

Aim of this survey was to find out the prevalence of overweight and obesity among female adolescents in Sohag University, and identify important risk factors.

Participants and methods

Design: Cross sectional study.

The study was carried out in Faculty of Medicine, Faculty of Nursery and Faculty of Education in Sohag University.

The sample size:

The study included 600 students.

Sampling technique:

Students selected using the multistage stratified random sampling technique as follow:

Faculties in the university were divided into medical and non medical faculties.

Therefore, Faculties were chosen randomly from each stratum; Faculty of Medicine and Faculty of Nursery were chosen from the medical faculties and Faculty of Education and were chosen from non medical faculties.

Stratification of the educational grades in each faculty was done and from each grade, students selected by clustered random sampling technique.

- **Data collection**

Data was collected through personal interviews with the females from the predetermined places using a questionnaire after explaining nature and aim of study.

A questionnaire was filled through interviewing the participating students with measuring weight, height and body mass index where weight and height were measured and body mass index to determine overweight and obesity using WHO international standards.

Description of the questionnaire

The questionnaire was divided into five parts. The demography, dietary habits,

physical activity, perceptions of body weight and beliefs of obesity and the record of self-reported and actual anthropometric body measurements.

Part One: The demography section has 10 questions and it served as an introduction to the survey. Questions 1-3 were open-ended questions while questions 4-10 were Likert scale questions.

Part Two: In the dietary habit section, eight questions on frequency of certain foods eaten and the choice of foods eaten were asked.

Part Three: There were 12 questions on the frequency of physical activity and how active the participants are. Examples of active exercises were given in the questionnaire. If they were not physically active, the respondents were required to give the reasons why they did not engage in physical activities.

Part Four: Six questions on the perceptions of obesity and beliefs about overweight were asked in this part of the questionnaire. Participants were asked to assess their weight status. This was achieved by giving them choices of weight (underweight, normal, overweight and obese) from which they had to choose whichever was most applicable to them. Respondents were also asked if they would like to lose weight and how they believed overweight could best be treated.

Part Five: The last part of the questionnaire consisted of the record of the anthropometric measurements/data. Participants wrote down their weight in kilograms, height and waist circumference in centimetres. Afterwards, the weight, height and waist circumference of the respondents were measured. C) 3rd phase
Analysis of data and presentation:

Statistical analysis:

- Computer data entry and data cleaning done along the period spent on data collection

- Data subjected to statistical analysis and tabulation using SPSS program version 16, the results presented to fulfill the objectives of the study.

Ethical consideration:

- Approval of Ethical Committee of Sohag Faculty of Medicine secured.

largely due to higher obesity prevalence among women⁽⁵⁾. Comparisons of obesity prevalence between Canada and the United States that are limited to white adults show no significant differences for men⁽⁵⁾. A review of prevalence estimates in European countries found that the prevalence of obesity based on measured weights and heights varies widely from country to country, with higher prevalence in Central, Eastern, and Southern Europe⁽⁶⁾. In most cases, the prevalence of obesity appeared lower in European countries than in the United States. However, estimates from other countries are not precisely comparable with US estimates because of differences in study methods, years of measurement and the age ranges, and methods of age adjustment or age categorization⁽⁶⁾.

In the current study, the mean value of weight in normal group was 56.6 kg while the mean value of weight was 70.9 kg in overweight or obese group. In addition, the mean value of height was 158 cm in normal group while the mean value of height was 159 cm in overweight or obese group. The average waist circumference was 72.3 in normal group while it was 80.9 in obese group. Mean value of BMI was 22.5 in normal group and 27.9 in overweight or obese group. All these differences were highly significant (p value <0.001), but it wasn't significant for length (p value = 0.08).

Mean age of participants in this survey was similar in two groups, highest percentage of participants in both groups was from the faculty of education. The smallest percentage of participants was from the Faculties of medicine and nursing. Regarding marital status there were significant difference between both groups (p-value<0.001). No association between BMI status and fathers' education level and mothers' education level, but the

study of Berghöfer et al.⁽⁶⁾, showed significant statistical association between overweight and obesity and parents' education (p-value <0.001). These findings were also supported by Adesina et al.⁽⁷⁾ who found that the percentage of overweight subjects whose mothers were highly educated was higher (9.7%).

We found that a high percentage of the respondents in obese group had a family history of obesity with highly significant difference (p-value<0.001) and the majority were not taking any medication in both groups. There was no relation between BMI status and participants medication intake.

Breakfast is a very important meal of the day due to the fact that it gives the energy needed for going about the day's activities. Our findings show a significant relationship between BMI status and breakfast intake (p-value=0.008) and the reason for no breakfast intake (p<0.001). More than four percent (4.6%) of our participants in normal group never had breakfast and 5.2% of the obese group never had breakfast. High percentage of the overweight or obese (36.8%) had breakfast intake one-nine times while 25.5% of the normal group had breakfast intake 1-9 times. Over thirty-five percent (35.9%) of overweight or obese participants had breakfast intake for 10-19 times while 37.4% of normal group had breakfast intake for 10-19 times.

The main reason for skipping breakfast among overweight or obese participants was lack of time, also it was the main cause in normal participants. Another research reported that 61.4% of Lebanese university students had regular meals daily⁽⁸⁾. As reported by various studies, skipping breakfast is one of the proven factors to induce obesity. It resulted in a lack of a feeling of satiety and lead to

increased total energy intake and obesity⁽⁹⁾.

Fruit seem to be consumed at least once per day by most participants in both groups in our survey. There was no association between the BMI status of participants and fruit consumption. Vegetables seem to be consumed at least once per day by most participants in both groups. There was no association between the BMI status of participants and vegetables consumption.

Similar findings were reported by Yahia et al.⁽⁸⁾ in which the majority of participants consumed vegetables and fruits three or more times a week (81.8%), almost half of them (51.5%) consumed fruits less than three times a week; the rest (48.5%) took it three times or more. Most of them had a balanced variety of foods (60.6%) while 18.9% preferred meat and 5.3% preferred vegetables⁽⁸⁾.

We demonstrated that the relation between fast foods consumption and respondents' BMI status was highly significant ($p < 0.001$). More than one third of the normal participants (38.8%) didn't take fast foods in the last week while more than one third of the overweight or obese participants (38.5%) had taken fast foods once last week. Comparable results were found in the Malaysian survey in which only 21.2% of the respondents consumed fast-food⁽¹⁰⁾. In contrast, Moy et al.⁽¹¹⁾ reported that 60-70% of the students were fond of fast food.

Furthermore, the current study reported a highly significant association between BMI status and soft drinks (p -value <0.001). More than one third (39.4%) of overweight or obese participants consumed soft drink once daily while only 1.7% reported 4 times consumption. However, 33.3% participants with normal weight consumed soft drinks once daily. While 23.8% of normal participants

didn't drink any soft drinks while only 13.4% of overweight or obese participants didn't drink any soft drinks. Similarly results were conducted in UiTMPuncakAlam showed that 11.7% of the students consumed soft drink at least three or four times per week. High intake of soft drink led to high risk of chronic disease such as diabetes and hypertension. Moreover, the prevalence of overweight and obesity was increasing due to high consumption of sugar-sweetened beverages⁽¹²⁾.

In our study, the dairy products and fatty food consumption was significantly associated with the BMI status (p -value=0.01, 0.002 respectively). 12.7% of normal participants didn't consume dairy products, 48.8% consumed dairy products once daily, 18.7% consumed dairy products twice daily while 3.8% consumed dairy products 3 times daily. On the other hand, 8.2% of overweight or obese participants reported no dairy products consumption, 47.6% consumed dairy products once daily, 27.3% consumed dairy products twice daily while 6.5% consumed dairy products 3 times daily. In addition, regarding fatty food, we found that the participants in the overweight or obese group consumed fatty food twice but the participants in normal group consumed fatty food once.

Regarding activity, we found that the relation between BMI status and heavy exercise (p -value=0.04) and the duration of exercise (p -value=0.01) were significant. However, BMI status was non significantly associated with cause if no activity.

Over eighty eight 88.3% of our overweight or obese participants did no heavy activity, a nearly similar percentage (80.2%) from normal participants. The reason most often given for not participating in heavy

by diet, with a non significant difference.

Another research study conducted by Davy et al. ⁽¹⁵⁾ found that 94.4% of the students believed that it was important to eat different kind of foods and lose weight for being healthy. A total of 4 (2.5%) and 25 (11.9%) of the medical and non- medical students agreed that a balanced diet should be rich in proteins while none of the medical students and 11 (5.2%) of the non-medical students believed that a diet with high amount of carbohydrate was important to maintain a balanced diet ⁽¹⁵⁾.

Regarding beliefs about treatment of obesity, we found that 45.8% of the normal students and 53.7% of the overweight or obese participants believed that obesity may best be treated by the individual's effort to change the diet and exercise regime. In terms of the best way to treat obesity, 45% of normal and 38.5% of overweight or obese students believed that the dietitian is the best treatment method for combating obesity. The least common treatment option was surgery (0% of overweight or obese and 0.3% of normal participants).

When we made regression analysis to identify risk factors of obesity in this study, we found that marital state, lack of physical activity, and watching TV are considered as independent factors that predict obesity. Our findings were similar to what was reported by Menezes et al. ⁽¹⁶⁾ as the results of their assessment showed that the time spent watching TV, videogames and computers (indirect indicators of sedentarism) and lack of physical activity significantly associated with weight in univariate analysis, losing significance in the multivariate analysis. A study performed in Spain

comprising adolescents with and without weight gain showed that the level of activity among eutrophic boys was significantly greater ⁽¹⁷⁾, but a case control linked to a cohort study carried out in a Southern city of Brazil by Monteiro et al. ⁽¹⁸⁾ showed no association between physical activity and overweight or obesity. Similar results were described in other Brazilian case control studies by Neutzling et al. ⁽¹⁹⁾ and Silveira et al. ⁽²⁰⁾.

However, studies frequently found that college students, regardless of gender, have unhealthy eating habits may be due to the time constraints placed on them in order to accommodate their study habits ^(21, 22). Additional studies suggested that lack of motivation; lack of energy; lack of knowledge; physical injuries and cost were found to act as barriers against physical activity ⁽²³⁾.

A case-control study on risk factors for obesity and overweight in adolescents of private schools carried out in the city of Pelotas, Brazil, showed that obese father (OR 2.43), obese mother (OR 2.86), and overweight in childhood (OR 2.26) significantly increased the risk for overweight and obesity ⁽¹⁹⁾. Additionally in Canada, Janssen et al. ⁽²⁴⁾ have shown that no fruit consumption was associated with elevated BMI values among adolescents. In a study on adolescents' profile in the USA, Neumaker-Sztainer et al. ⁽²⁵⁾ showed that overweight adolescents or those not satisfied with their own weights, surprisingly consumed less fruits and greens. A study conducted on university students in Spain identified that low consumption of fruits and vegetables when compared to the Diet Quality Index ⁽²⁶⁾.

Conclusion

We report that overweight and obesity were prevalent among the our study subjects as the prevalence was 38.5%, lack of physical activity, soft drink consumption and marital status were significantly associated with obesity, our students preferred dairy products and fatty foods over vegetables and fruits. In addition, their "lack of time" was the most frequently mentioned

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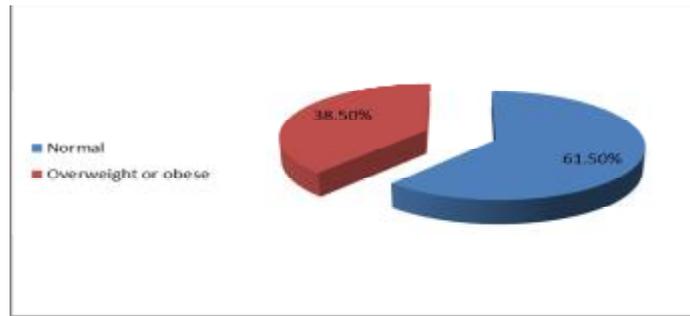


Figure 1. BMI distribution in Sohag University

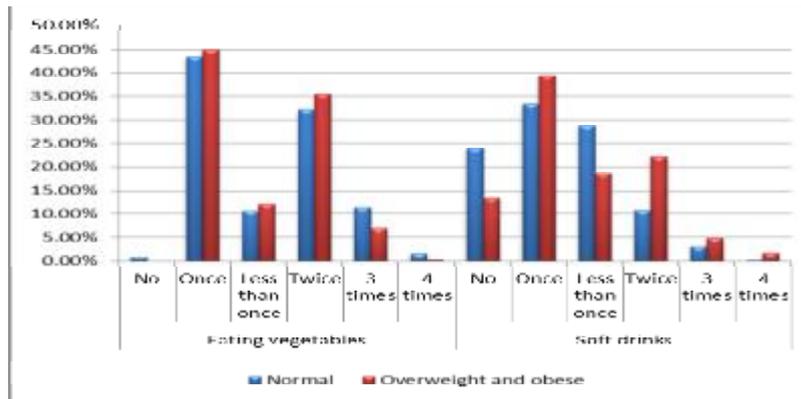


Figure (2): Vegetables and Soft drinks consumption.

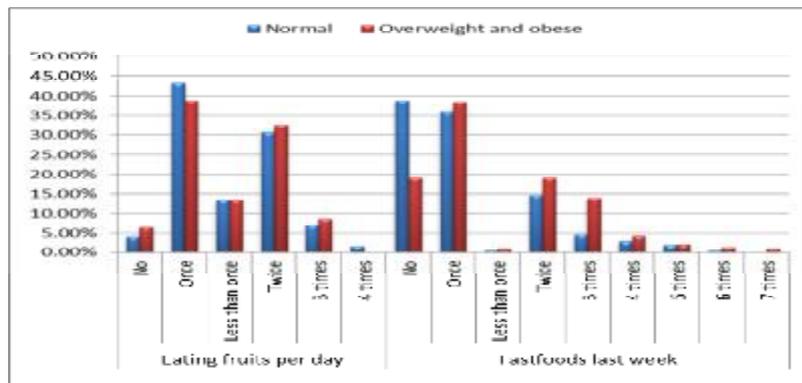


Figure (3): fruits and Fast foods consumption

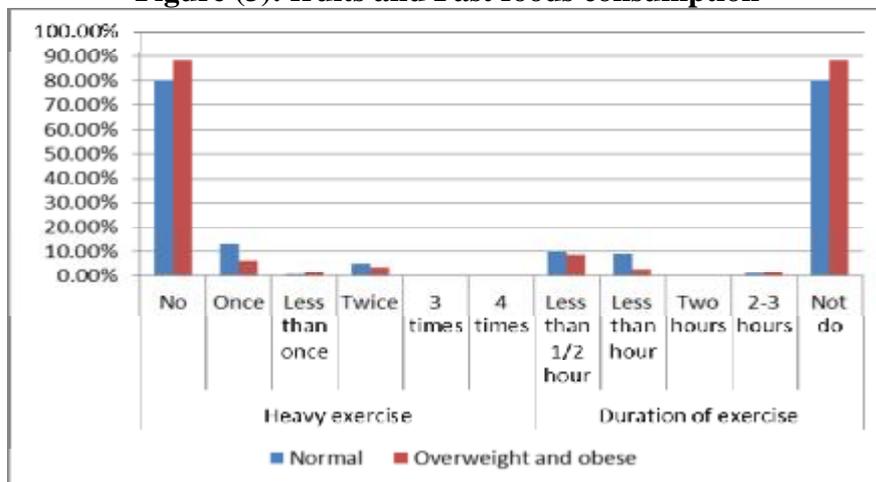


Figure (4): Details of participants' heavy exercise

Table 1. Weight, height, waist circumference and BMI of participants

Variable (Group)	Normal group (Mean±SD) N (369)	Overweight or obese group (Mean±SD) N (231)	P value
Weight	56.67±5.46	70.90±6.65	<0.001
Length	158.63±3.88	159.16±3.19	0.08
Waist circumference	72.39±5.22	80.96±5.56	<0.001
BMI	22.51±1.83	27.94±2.18	<0.001

Table 2. Dietary behaviors and food consumption patterns

Variable (Group)	Normal group No (%) (369)	Overweight or obese group No (%) (231)	Chi square	P value	
Breakfast During last month	1_9/month	94 (25.5%)	85 (36.8%)	13.920	0.008
	10_19/month	138 (37.4%)	83 (35.9%)		
	20_29/month	43 (11.7%)	12 (5.2%)		
	Always	77 (20.9%)	39 (16.9%)		
	No	17 (4.6%)	12 (5.2%)		
Cause of no breakfast	Can't eat in morning	87 (23.6%)	43 (18.6%)	62.915	<0.001
	No time	124 (33.5%)	68 (29.4%)		
	Not find prepared food	64 (17.4%)	41 (17.7%)		
	Other	3 (0.8%)	1 (0.4%)		
	Eat always	90 (24.4%)	41 (17.8%)		
	To lose weight	1 (0.3%)	37 (16.1%)		
Eating fruits per day During last month	No	15 (4.1%)	15 (6.5%)	6.729	0.119
	Once daily	160 (43.4%)	90 (38.9%)		
	Less than once daily	49 (13.3%)	31 (13.4%)		
	Twice daily	113 (30.6%)	75 (32.5%)		
	3 times daily	26 (7%)	20 (8.7%)		
	4 times daily	6 (1.6%)	0 (0%)		

Table 3. Dairy products and fatty food

Variable	(Group)	Normal group No (%) (369)	Overweight or obese group No (%) (231)	Chi square	P value
Dairy products During last month	No	47 (12.7%)	19 (8.2%)	13.992	0.01
	Once daily	180 (48.8%)	110 (47.6%)		
	Less than once daily	56 (15.2%)	21 (9.1%)		
	Twice daily	69 (18.7%)	63 (27.3%)		
	3 times daily	14 (3.8%)	15 (6.5%)		
	4 times daily	3 (0.8%)	3 (1.3%)		
Fatty food During last month	No	3 (0.8%)	2 (0.9%)	21.312	0.002
	Once daily	140 (37.9%)	72 (31.1%)		
	Less than once daily	45 (12.2%)	10 (4.3%)		
	Twice daily	124 (33.6%)	88 (38.1%)		
	3 times daily	35 (9.5%)	39 (16.9%)		
	4 times daily	19 (5.1%)	17 (7.4%)		
	5 times daily	1 (0.4%)	0 (0%)		
	More than 5 daily	2 (0.5%)	3 (1.3%)		

Table 4. Univariate Binary Regression Analysis between normal participants and overweight or obese participants

	B	P value	Odd's ratio	CI for Odd's	
				Lower	Upper
Age	0.000	0.994	1.000	0.895	1.119
Marital status	1.257	<0.001	3.515	1.809	6.830
Breakfast	0.474	0.738	1.607	0.100	25.818
Eating fruits	0.497	0.200	1.644	0.769	3.514
Eating vegetables	-20.7	1.000	0.000	0.000	.
Soft drinks	-0.646	0.052	0.524	0.273	1.007
Exercise	0.582	0.014	1.789	1.125	2.845
Watching TV	-0.610	0.051	0.543	0.294	1.004
Walking 10 minutes	-20.73	0.999	0.000	0.000	.

Table 5. Multivariate Binary Regression Analysis between normal participants and overweight or obese participants Regarding marital state, soft drinks, exercise, and watching TV

	B	P value	Odd's ratio	CI for Odd's	
				Lower	Upper
Marital status	-1.222	<0.001	0.295	0.150	0.578
Soft drinks	-0.617	0.079	0.540	0.278	1.050
Exercise	0.572	0.017	1.772	1.106	2.840
Watching TV	-0.649	0.043	0.52	0.279	0.980

Table 6. Final model of multivariate logistic regression.

	B	P value	Odd's ratio	CI for Odd's	
				Lower	Upper
Marital status	1.219	<0.001	3.383	1.730	6.614
Exercise	0.571	0.017	1.771	1.106	2.834
Watching TV	-0.688	0.031	0.50	0.269	0.941