FLORA AND FAUNA

2016 Vol. 22 No. 1 PP 139-143

ISSN 0971 - 6920

EFFECT OF LIFE STYLE ON THE HEALTH IN ADOLESCENTS *ARCHANA SINGH AND KAVITA SHARMA

Department of Food & Nutrition (Biochemistry),

Institute of Home Science, Dr. B.R. Ambedkar University,

AGRA- 282 002 (U.P.) INDIA

* Corresponding Author

Email: 301archana@gmail.com

Received : 22.2.16; Accepted : 29.3.16

ABSTRACT

The study was conducted to know the effect of Life Style on the health in adolescents. Selecting 100 adolescents of age group 12-18 years from two schools in Agra district. Significant effect of exercise, market made food, watching television *etc.* was observed on obesity among adolescents. Adolescents should be aware that consumption of high fat fast food may contribute to childhood and subsequent adult obesity.

Figure : 00	References : 07	Tables : 07
KEY WORDS : Dietary pattern, Life style		

Introduction

Obesity is a menace to health and it is public health problem which refers to a condition when fat accumulation is excessive to an extent that is increase risk of ill health.

Good health not only implies freedom from disease but physical, mental and emotional fitness as well. Optimum and good nutrition is used to indicate that the supply of the essential nutrients is correct in amount and proportion⁵. A proper body weight is most conducive to good health, deviation of the body weight beyond certain limits from the

normal is not only detrimental to health but also predisposes to many others disorders. India is facing the epidemic of obesity and its associated diseases, especially in children and adolescents.⁶ There is growing evidence that in present conditions, perhaps due to decreased physical activities, sedentary life style, altered eating and increased fat content of the diet. Children and adolescents are overweight as compared to their contemporaries in the past. In recent years increase of fast food consumption with constant low consumption or some recommended food are

TABLE-1: Effect of type of work on	health among the adolescents
------------------------------------	------------------------------

Type Of Work	Respondents						
	То	otal	Obe	ese			
	Number	Percentage	Number	Prevalence			
Light	24	24 24.00		41.67			
Moderate	76	76.00	26	34.21			
Total	100	100 100.00		36.00			

ARCHANA SINGH AND KAVITA SHARMA

TABLE-2: Effect of sleeping hours on health among the adolescents

Sleeping hours	Respondents						
	То	otal	Obe	ese			
	Number	Number Percentage		Prevalence			
Upto 7	24	24.00	8	33.33			
7 and more	76	76.00	28	42.42			
Total	100	100 100.00		36.00			

TABLE-3: Effect of exercise on health among the adolescents

Exercise	Respondents					
	Тс	otal	Ob	ese		
	Number	Number Percentage		Prevalence		
Yes	26	26.00	9	34.61		
No	74	74.00	27	36.48		
Total	100	100.00	36	36.00		

observed in the world.⁷ The present study also throws some light on the importance and ill effect of sedentary life style which is most responsible factor to create several problems related to respiration circulation, metabolism and

complication related to health problems *i.e.* obesity *etc.* Hence, the present study is aimed to find out the life style of adolescents and the relationship of obesity with this.

Vehicle used	Respondents					
	Тс	otal	Ob	ese		
	Number	Percentage	Number	Prevalence		
Cycle	15	15.00	4	26.66		
Auto	44	44.00	20	45.45		
Two wheelers	23	23.00	8	34.78		
Others	17	17.00	4	23.52		
Total	100	100.00	36	36.00		

140

EFFECT OF LIFE STYLE ON THE HEALTH IN ADOLESCENTS.

TABLE-5: Effect of watching television on health among the adolescents

Vehicle used	Respondents						
	То	tal	Obe	ese			
	Number	Number Percentage		Prevalence			
Yes	98	98.00	34	34.69			
No	02	2.00	2	100.00			
Total	100	100.00	36	36.00			

Materials and Method

A survey was conducted on adolescents of Agra city in Uttar Pradesh, India. Multistage stratified random sampling technique was used for selecting 100 samples of age group 12-18 years from two schools in Sikandara ward of urban area of Agra district. Information was collected regarding general information, life style and dietary pattern among the adolescents. The 24 hours recall method was used in the present study. This is the most extensively used method of dietary survey and is often employed in interview.

Result and Discussion

The following observations related to effect of life style on obesity among adolescents have been noted:

Table-1 reveals the prevalence of obesity among the selected adolescents. In the present study the prevalence of obesity was 36.0% which was more among the students engaged in light work 41.67% as compared to students engaged in moderate work 34.21%.⁴

Table-2 reveals the prevalence of obesity was 36.0% which was more among the adolescents who reported that they slept more than 7 hours (42.42%) as compared to adolescents who slept upto 7 hours.

Table-3 reveals the prevalence of obesity was 36.0% which was more among the adolescents who reported that they did not do exercise (36.48%) as compared to those who did do exercise (34.61%).¹

Table-4 reveals the prevalence of obesity was 36.0% which was more among the adolescents who reported that they go to school by auto followed by two wheelers were (34.78%), (26.66%) in those who go by cycle minimum in others (23.52%).

TABLE-6: Effect of food liking on health among the adolescents	
--	--

Prepared food	Respondents						
at	тс	otal	O	bese			
	Number	Number Percentage		Prevalence			
Home	78	78.00	14	17.94			
Market	22	22.00	22	100.00			
Total	100	100.00	36	36.00			

Nutrient	Unit	adolescents				Statist	ical values
Intake		normal obe (n=64) (n=					
		Mean	SD	Mean	SD	t	р
Calories	kcal	2535.96	133.88	2545.09	125.52	0.332	>0.05
Protein	gm	63.72	4.45	62.75	5.43	0.965	>0.05
Calcium	mg	875.21	260.73	866.48	187.06	0.177	>0.05
Vitamin A	mg	2415.23	145.09	2404.34	174.79	0.334	>0.05
Vitamin B ₁	mg	1.32	0.40	1.33	0.51	0.108	>0.05
Vitamin C	mg	42.35	4.82	42.28	4.33	0.072	>0.05
Iron	mg	32.93	4.40	32.49	4.34	0.504	>0.05
Fat	gm	37.54	8.39	36.99	8.96	0.307	>0.05
Riboflavin	mg	1.50	0.05	1.50	0.06	0.000	<0.05
Niacin	mg	17.59	2.34	17.58	2.25	0.021	>0.05
Carbohydrate	gm	223.21	46.98	217.69	30.19	0.649	>0.05
Fibre	gm	5.84	1.93	5.97	1.69	0.338	>0.05
Sodium ¹	mg	130.38	31.17	130.38	31.17	0.000	>0.05

TABLE-7 : Mean intake of various nutrient intakes among the normal and obese adolescents.

Table -5 reveals the prevalence of obesity was 36.0% which was more in adolescents who reported that they watched television (34.69%) as compared to those who did not watch (100%).

Table-6 reveals the prevalence of obesity was 36.0% which was more among adolescents who liked food prepared at market (100.00%) as compared to those who liked home made food (17.94%).

Table-7 shows the mean intake of various nutrients among the normal and obese adolescents. Mean nutrient intake of protein, vitamin A, calcium, vitamin C, iron, fat and niacin riboflavin, carbohydrate and fiber were found more in normal adolescents as compared to obese adolescents. While the mean nutrient intake of calories, vitamin $B_{1,}$ niacin and sodium was found to be more in obese adolescents as compared to normal

adolescents. Statistically, no significant differences regarding all nutrient intake were observed between the normal and obese adolescents, even at 5% level of significance. ^{2,3}

Conclusion

From our study it is evident that prevalence of obesity was more among the adolescents who engaged in light work as compared to those who were engaged in moderate work, significant effect of exercise, non-vegetarian diet, market made food, fast food addiction, sweets, ice-cream were observed on obesity among the adolescents. Mean nutrient intake of calorie was found to be more in obese adolescents as compared to normal adolescents. Sedentary life style, lack of exercise watching television was the factors which negatively affected the health of adolescents. The present study is likely to help the mothers of adolescents to

EFFECT OF LIFE STYLE ON THE HEALTH IN ADOLESCENTS.

gain and understanding of the relationship between diet and health status of their child as well as

methods and measures of prevention and control of major health hazards faced by them.

References

- 1. AHMED, A. (2007) Obesity and Related Behaviour among Adolescents School boys in Abha city, *Journal of Tropical paediatrics.* pp.162.
- 2. HIMES, J.H. (2006) Prevalence of overweight and obesity in American and Indian school children in Aberdeen area, *A population study*, **23**: 243.
- 3. KANERIA, Y. (2006) Prevalence of overweight and obesity in relation to socio-economic condition of two groups of school age children of Udaipur city, *Indian Academy of Clinical Medicine*, **7**: 79-83.
- 4. KELUNDU, E. (2002) Study of physical activity and its relation to obesity in adolescents. *Dissertations abstract international*, **21** : 234A.
- 5. KHOSLA, ANJU AND MANOCHA, RUCHI (2012) Home Science, *Danika Publishing Co.* (Publisher of Trueman's specific series), **2**.
- 6. PARK AND KYOUNG (2008) The role of inflammation and oxidative stress in the association of obesity and insulin resistant, *Dissertations abstract international*, **69**, 6011b.
- 7. WIERZBICAAND, E. AND ROZKOWSKI, W. (2005) Analysis of food intake including tast food meals by groups of adolescents, *Bromat Chem. Toxkykol.* **38**: 561-566.