

FREQUENCY OF OVERWEIGHT & OBESITY AMONG NURSES AT DHQ HOSPITAL CHINIOT

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ABSTRACT

Background: There is a high rate of obesity and overweight among healthcare department in Pakistan. Due to lack of information and knowledge about the prevalence of overweight and obesity available in Pakistan it is difficult to compare figures about it. **Objective:** To find the frequency overweight and obesity's among nurses **Study Design:** Cross sectional study. **Setting:** DHQ Hospital Chiniot. Period: Aug 2017 to Dec 2017. **Material and Method:** This research was quantitative & cross sectional; a self-administered questionnaire was used to collect the data and SPSS 21.0 was used to analyze the data. The sample size was 50 nurses at DHQ Hospital Chiniot. **Results:** This study found a considerably high prevalence of overweight and obesity amongst nurses working in District Head Quarter Hospital, Chiniot. The prevalence of overweight and obesity were 64.0% (N=32) and 16.0% (N=8) respectively, with a mean BMI of 28.43 kg/m². Thus the predominant pattern of malnutrition in nurses in this study was found to be one of overweight and obesity. The overweight and obesity prevalence found in this study was higher than that of the general Pakistani adult population but similar to that of the economically active Pakistani population. **Conclusion:** There was higher level of overweight and obesity found among nurses.

Keywords: Overweight and Obesity, Prevalence

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INTRODUCTION

Prevalence of overweight and obesity is increasing worldwide.¹ About 2/3 of adult population of United States is overweight and obese and US is at top of the list of all countries (BMI \geq 25) (Ogden *et al.*, 2015). There were 60% of Australian adults were overweight and obese (Cameron *et al.*, 2003). Likewise, there were 60% Canadian adults were overweight and obese, while 26.3% children have age between 2-17 years in Canada were overweight.² Correspondingly, there were 10-27% males and 10-38% females reported to overweight and obese in European countries (Lien *et al.*, 2010).

Obesity was a problem for developed countries previously, but now there is up rise of overweight and obesity in developing countries. There is increase of overweight and obesity in China as well which is found 27.3%.³ Likewise, prevalence

of overweight and obesity is also found high percentage which is 26.3%.⁴

At present, Pakistan is experiencing an initial obesity epidemic. The burden of obesity in adults and children has increased with key risk factors containing harmful diet, unhealthy lifestyle an inactiveness of physical activities. The instant precautionary and controller measures required to control the condition may contain a physical activity environment and a healthy diet, cognitive monitoring and childhood obesity testing to the method to preventive precautions while as adolescent girls and children at high risk.⁵

Previous research has shown that rates and correlations may differ between health workers and the overall population.⁶ It has been perceived that arterial blood pressure inclines to rise with body weight and age, and that excessive weight

loss rates increase with increasing levels of education. There is an increasing proportion of overweight and obesity in the sector of health. There is association of marital status and women with overweight and obesity.⁶

There is significance contribution of occupational factors and inactive physical activity with obesity between healthcare workers. There should be programmed activities between healthcare workers to promote physical activities to avoid overweight and obesity between them.⁷ Number of influencing factors in health care workers, especially night shifters, may increase the risk of developing metabolic syndrome like overweight and obesity.⁸

Prevention of overweight and obesity and consequences of it are affected by workplace and health professionals critically. Health care workers can become role models for their patients to control their overweight and obesity by controlling their diet and increasing their physical activity which could prevent them from overweight and obesity.⁹

Poor diet, sedentary lifestyle, improved socio-economic status and poor diet are major contributing factors in the rise of overweight and obesity.¹⁰ Marital status, stress, alcohol intake, parity and increasing age are also the other major contributing factors to overweight and obesity.¹¹

At present, healthcare sector of Pakistan is suffering from the prevalence of overweight and obesity. Due to lack of information and knowledge about the prevalence of overweight and obesity available in Pakistan it is difficult to compare figures about it. This research study has highlighted the statistical information about the prevalence of overweight and obesity in nurses at DHQ Hospital Faisalabad. There is also identification of contributing factors of overweight and obesity amongst the healthcare workers in this research work.

MATERIAL AND METHOD

This research was quantitative in nature and for the purpose of data collection a self-constructed questionnaire was used. The samples size of this study was 140 nurses at FIC, Faisalabad. The data was statistically analyzed by using SPSS 21.0.

RESULTS

Table 1 shows that majority of the nurses were overweight with the percentage of 64% (N=32), 20.0% of the nurses were normal weight and 16.0% were obese.

Table 4 shows the association between demographic factors and prevalence of obesity/overweight in nurses. It shows that married women were majority having prevalence of overweight/obesity as compare to single

Table 1. Demographic Characteristics of the Nurses			
Gender	Frequency	Total	Percentage (%)
Female	50	50	100.0%
Designation	Frequency	Total	Percentage (%)
Nurses	50	50	100.0
Marital Status	Frequency	Percentage	
Single	16	32.0	
Married	34	68.0	
Total	50	100.0%	
Age	Frequency	Percentage	
18-24 years	3	6.0	
25-29 years	16	32.0	
30-34 years	12	24.0	
35-39 years	8	16.0	
40-44 years	2	4.0	
45-49 years	5	10.0	
50-54 years	4	8.0	
Total	50	100.0%	
Education	Frequency	Percentage	
Diploma	22	44.0	
Graduate	12	24.0	
Post-graduate	16	32.0	
Total	50	100.0	
Experience	Frequency	Percentage	
Less than 5 years	19	38.0	
5-10 years	18	36.0	
More than 10 yeas	13	26.0	
Total	50	100.0	
Working Shift	Frequency	Percentage	
Morning	22	44.0	

developed and developing countries. Higher level of education increases the risk of obesity than lower education especially in females.

It is also found that in a previous study that a married woman who is having a caring husband and wealth and happiness is overweight and obese. There is found correlation in this study between eating pattern and obesity, healthcare workers who take snacks or beverages between meals were having high risk factor of overweight and obesity. Other major worried results indicated that majority of healthcare workers (49.3%) do not exercise at all and 26.7% of the respondents do not exercise regularly and despite those findings the majority of the healthcare workers (96%) believe in exercise to reduce the risks of overweight and obesity. It was significantly found that healthcare workers who do not bother to take exercise were higher risk to become overweight and obese. This was in accordance with previous study of (Senekal et al., 2003).

Obesity is a complex condition with having influences environmentally, culturally, socially, behaviorally, genetically and biologically. There could be contribution to excessive caloric intake and inadequately amounts of physical activities of individual behaviors. There is attribution of current high prevalence of obesity with eating habits, limited opportunities of physical activity (Duffey & Popkin, 2011; Piernas & Popkin, 2011; Powell et al., 2011; Sallis & Glanz, 2009).

Another reason of gaining weight is use of certain medical conditions and taking medicines like steroids and anti-depression medicines. Inadequacy in sleep, post-natal and prenatal effects is also suggested evidently. (Gore et al., 2015; Gundersen et al., 2011; Knutson, 2012; Shlisky et al., 2012; Weng et al., 2012). Numerous contributing factors from these affect almost every person once in life to some extent, but those people who have limited resources of physical activity and unhealthy eating habits face more risks and challenges.

CONCLUSION

Onyebukwa¹² found an overweight and obesity rate of 29.7% and 41.0% correspondingly in one study. He found that risk factors like eating between meals, inactivity in exercise, high level of education were associated with obesity rates. There was found more prevalence of overweight/obesity in participants than general population in South Africa.

Ondichoet *al.*,⁹ conducted a cross-sectional research to evaluate the prevalence of overweight and obesity between healthcare workers in Kenya and also evaluated the risk factors associated with obesity. There was 58.8% overweight and obesity found in their research. There was determined that a major risk factor associated with overweight and obesity was increased age and marital status, sex and physically inactivity were also major factors associated with overweight and obesity. It was found that prevalence of overweight and obesity amongst healthcare workers was more than other population of country.

Kyle *et al.*,¹³ compared the obesity rates amongst non-healthcare workers and healthcare workers in United Kingdom. High prevalence of overweight and obesity was found in unregistered healthcare workers and nurses. They found the mental health and osteoporosis' increased risk were the reasons of overweight and obesity. Recommendations for further research to help to preserve healthy weight were made.

Phetla & Skaal¹⁴ pointed out that misclassification of body weight of healthcare workers is a major risk factor associated with obesity. They demonstrated that this group's health should be given importance and focus whose health South African people depend on and who will be the driver of healthy life for all. They stressed that accurately classifying the body weight of a health worker would encourage people to act in an effort to combat their own obesity and that of others. Humphreys (2007) identified that rate of injuries

increased in nurses and patients due to overweight and obesity in America.

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AUTHORSHIP AND CONTRIBUTION DECLARATION

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