

Journal of Education and Training Studies Vol. 8, No. 2; February 2020 ISSN 2324-805X E-ISSN 2324-8068 Published by Redfame Publishing URL: http://jets.redfame.com

Examination of Obesity Awareness Levels of Physical Education Teacher and Coaching Education

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Received: November 29, 2019	Accepted: December 18, 2019	Online Published: December 23, 2019
doi:10.11114/jets.v8i2.4638	URL: https://doi.org/10.11114/jets.	v8i2.4638

Abstract

In this study, it was aimed to examine obesity awareness levels of physical education teacher and coaching education students.251 (103 women, age:20,36 \pm 2,31 years, BMI:20,02 \pm 2,23 kg) who studied in the Department of Coaching and Physical Education of Bartin University Faculty of Sport Sciences in 2019-2020 academic year were included in this study. 147 male, age:20.15 \pm 2.32 years, BMI:21.42 \pm 2.67 kg/m2) students participated voluntarily. Obesity Awareness Scale was developed by Allen (2011) and adapted to Turkish by Kafkas and Özen (2014) and personal information form including age, gender and department variable were applied to the participants. The data obtained in the study were analyzed with SPSS 20.0 statistical package program and the level of significance was taken as (p <0.05). The overall internal consistency of the scale was found to be 0.87. In the study, t-test was used for pairwise comparisons of parametric tests. In our study, no significant difference was found between gender variable and obesity awareness (p>.05). There was no significant difference between obesity awareness and department variable (p>.05). When the obesity awareness scores were examined, the average score of the students of the coaching department was average 62.23 meanwhile the teaching department students average score 62,91. It was found that both physical education teachers and coaching department students had high obesity awareness.

Keywords: obesity awareness level, physical education teacher, coaching education

1. Introduction

It is seen that the faculties that provide physical education and coaching education are also guiding in issues related to public health besides education and training activities. Exercise is an important factor that supports cognitive, affective and psychomotor development. In addition, exercise is a protective tool against diseases such as obesity, cardiovascular disorders, diabetes and depression.

People with a BMI of 30 or over are considered to be obese, causing excessive and abnormal fat build-up and disrupting body health. (https://hsgm.saglik.gov.tr/en/obezite/obezite-nedir.html) In obesity measurement, body mass index (BMI) is calculated by dividing the weight (kg) of the individual by the square of his height (m). In adults, BMI is considered to be overweight if it is between 25-29.9 kg / m2 and obese if it is 30 kg / m2. Individuals with a BMI of 35 and over are classified as morbidly obese with high vital risks (Çi çekli, 2019).

In the formation of obesity; genetics, endocrine disorders, eating habits, unhealthy eating, lack of physical activity, gender, age, smoking, alcohol, drug use, stress, environmental, cultural and psychological factors play a key role (Kahraman, 2018; Park et al., 2018). Obesity is a disease that causes physiological, organic and systemic problems as well as psychological problems. The fact that one of the reasons effective in the formation of obesity appears in individuals triggers the formation of other factors. For example; The hormonal structure of someone with intense stress may be impaired (Zorba, 2014). Today, obesity, psycho-somatic deterioration or, as a disease with a different definition of psychological factors contributed to the literature (Resch et al. 1998). The human body, the soul and the body are whole, intertwined living creatures. It is affected by mental changes in bodily functions. In humans, there is a mutual interaction between psychological state and increased appetite. Emotional and mental changes such as depression, tension, anxiety, sadness and joy affect the eating habits and eating behaviors of people (Eren and Erdi 2003). Obesity is a result of various factors. It is known that many psychological factors such as eating speed, stress, depression, loss of a

relative, loneliness, unhappiness and frustration cause weight gain. In particular, individuals with mental depression tend to snack in order to get rid of tension. Generally, depressed individuals can also observe weight gain (Fox and Byerly 2001). The main causes of obesity are nutritional disorders and unconsciousness in calorie intake. Unfortunately, people are unaware of the amount of calories they need to consume daily and the calories of foods, increasing awareness of calories can play an active role in preventing obesity. The international food information council reported that only one in every seven Americans correctly estimated the amount of calories needed daily. Apart from eating habits and mood, it has a significant effect on genetic factors in obesity. Hereditary inheritance influences the way and degree of nutrition in various ways (Guyton and Hall 2001). We can define them as follows. In the nutrition center, abnormal conditions seen in the regulation of energy stores, conditions that cause appetite or people to eat, abnormal genetic and psychological factors, and genetic disorders such as abnormal fat-carbohydrate storage can be listed. Because of obesity, some psychological and physiological diseases occur in humans. Some researchers interested in the obese gene believe that a gene that is thought to cause a tendency to increase weight causes obesity (Bouchard 2001). Obesity, known as the disease of our age, causes many diseases in the world and in our country and its incidence is gradually increasing. Obesity, which directly affects the quality of life and life span of people, causes psychological and social problems and triggers the emergence of some chronic diseases (Cabioğlu et al., 2003). Obesity; Diabetes, hypertension, metabolic syndrome, cardiovascular disorders, respiratory and digestive system disorders are highly associated with cancer types and are ranked fifth among the most important mortality factors (Kalan and Yesil, 2010; Pereira-Santos et al., 2015).

The World Health Organization has reported that the prevalence of obesity has increased threefold in the last 20 years in the European Region (WHO, 2007). According to OECD data, the USA with the highest obesity rate is 38.2% in the world while the lowest obesity rate is seen in Japan with 3.7%. the obesity rate in Turkey is around 22.3% (https://www.tuseb.gov.tr/akademik/obezite-hakkinda-oecd-raporu). According to the 2008 WHO statistics, obesity prevalence was higher in men 20 years of age in the world, while 20.4%, this rate in Turkey 22.8%, the prevalence of obesity in the world, women 35.6% in Turkey, while 23.1% is around (Yanıkkerem, 2017). The World Health Organization (WHO) conducted an epidemiological assessment of 10-20 years in a study conducted in 6 regions: Africa, America, South Asia, Eastern Mediterranean, Europe and Western Pacific. According to the results of the study, the prevalence of obesity increased by 10-40%, on average 15-20% of males and 22% of females are currently obese (G ünay et al., 2006).

Studies have shown that obesity has a high health, social and economic impact on individuals and society (Lakerveld et al., 2014). Obesity ranks third in terms of the burden on the national economy today in terms of material loss after smoking, terrorism and war crimes (Dobbs et al., 2014). Obesity treatment is a very costly disorder, with the US spending \$ 147 billion annually on obesity, the most obesity seen, and each year 3.4 million people die due to obesity-related problems worldwide (Perlmutter and Loberg, 2017).

Obesity is one of the physiological, psychological, social and global problems that can be brought under the influence of heredity and can develop due to environmental factors and neurological reasons. In today's world where human health and quality of life are important, people have become aware of the importance of healthy eating and physical activity. From this perspective, physical activity, nutrition and weight control should be the way of living people. Today body and mental health are known to be a whole. Although awareness about obesity has increased recently in our society, the rate of obesity continues to increase. The perception of obesity is an important determinant for behavior or action in the field of health promotion. The perception of obesity disease and risk factors by people at different levels of society (policy, health and social work, public health and prevention, teachers, schools, etc.) will contribute to the prevention and management strategy of obesity (Visscher et al., 2015). Although many studies have been observed in the literature on obesity prevalence, risk factors and related diseases, exercise and obesity relationship, studies on obesity awareness are limited.

2. Method

2.1 Research Model

This study is a randomized sampling method used to test the obesity awareness levels of physical education teachers and coaching education students in terms of department and gender variables (Karasar, 2012).

2.2 Population and Sample of the Research

In this study, it was aimed to examine obesity awareness levels of physical education teacher and coaching education students. The sample of the research group consisted of 251 students (103 females, 147 males) studying in the coaching and physical education department of Bartin University Faculty of Sport Sciences in the 2019-2020 academic year. The volunteering principle was used in the application of the scales to the sample group.

2.3 Data Collection Tools

In order to determine some demographic characteristics of the participants, Obesity Awareness Scale was used to determine the personal information form of the participants including age, gender, height, department variables, and obesity knowledge levels.

2.3.1 Obesity Awareness Scale

Obesity Awareness Scale developed by Allen (2011) and adapted to Turkish by Kafkas and Özen (2014) and personal information form including age, gender and department variables were applied to the participants. The scale consists of 20 items and three sub-dimensions (a-obesity awareness and risk factors, b-nutrition sub-dimension, c-physical activity sub-dimension). The scale has a 4-point likert structure from negative to positive. When the 16th question is scored in the scale, it is read in reverse and calculated as <20 average awareness over 20 points, low awareness between 20-39 points, low awareness between 40-59 points and high awareness between 60-80 points.

2.4 Analyzing Data

The data obtained in the study were analyzed with SPSS 20.0 statistical package program and the level of significance was taken as (p < 0.05). The internal consistency of the scale was found to be 0.87. Cronbach's alpha value was found to be 0.87. In the study, t-test was used for pairwise comparisons of parametric tests.

3. Results

The findings of the study which investigated the obesity awareness of physical education teacher and coaching education students are presented below.

Table 1.	Age and	BMI Table	of Female an	nd Male Group
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Gender	Height	BMI
Female Group	20,36 ±2,31	20,02 ±2,23
Male Group	20,15 ±2,32	21,42 ±2,67

The mean age of the women participating in the study was approx. The mean age was 20.36 ± 2.31 years and BMI was 20.02 ± 2.23 kg / m². 20.15 ± 2.32 years, BMI was found to be 21.42 ± 2.67 kg / m².

Table 2. Examination of Obesity Awareness by Gender Variable

Gender	Ν	Х	S	sd	t	р
Female	103	62,4	5,31			
				85	,37	,44
Male	147	62,8	5,79			
P<0.05						

When Table 2 was examined, no significant difference was found between gender variables and obesity awareness of the participants (p > .05).

Table 3. Examination of Obesity Awareness by Part Variable

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	Ν	Х	S	sd	t	р
Coaching	126	62,23	6,14			
				97	,95	,09
Physical Education Teacher	124	62,91	4,96			
D 0.05						

P<0.05

When Table 3 was examined, no significant difference was found between the participants' variables and obesity awareness (p > .05). However, when the obesity awareness scores were examined, the average score of the students of the coaching department was average. While 62.23 mean score of students in the department of physical education teachers. 62,91. When the mean scores of both groups were taken into consideration, it was found that the groups had high obesity awareness.

4. Discussion

In this study, obesity awareness levels of physical education teacher and coaching education students were examined.

When the literature is examined, various studies have been observed to measure obesity awareness and to prevent the

increase in the incidence of obesity in the society. In a study examining the news published by some of the top five newspapers about obesity in selected months, 49 of the reports were related to obesity, 44 of the current or magazines had content on obesity prevention, 39 had treatment, 35 had health risks and 13 of these patients were found to cover the complication issue (Demircioğlu et al., 2013).

Li et al., (2010), wanted to draw attention to childhood obesity in their study, and students with low socioeconomic status increased BMI observed that exercise is a factor affecting obesity. In a study conducted in Korea on the frequency, awareness and management of obesity between 1998 and 2011, it was found that the prevalence of obesity increased year by year, and individuals with various disorders such as diabetes and obese individuals had less awareness than subjects with weak or normal weight (Kim et al., 2014). In a study conducted in 447 primary schools in Malaysia, it was found that 90% of school administrators have knowledge about obesity prevention policies, but 50-70% of schools implement this policy. They stated that the main reason for this was inadequate education, lack of sufficient time to complete the applications and lack of equipment (Chan et al., 2018). In the study of obesity and dietary awareness among young people and children in Poland, 9% of the population was overweight and 5% were obese, and the main reasons for this were nutrient consumption, lack of physical activity, and excessive spending on TV and computer. respectively. They also reported that girls had a higher level of consciousness compared to boys, but that being conscious and aware was not sufficient to maintain optimal body mass (Stankiewicz et al., 2014). In Obafemi Awolowo University communities, the study carried out to measure the awareness of obesity among 236 female subjects aged 25-59 years 76.7% of women had low awareness about obesity awareness and health damage, and it was found that the level of education decreased and the awareness decreased (Ojofeitimi et al., 2007). One hundred people in the 19-50 age group and 40 adolescents in the 14-18 age group in Tanzania showed that 70% of the young group had lower obesity awareness than the older group (Nyaruhucha et al., 2003). It was found by this study which examined the obesity awareness among university students with 800 students from 16 departments, women had higher obesity awareness than men, sociology students had lower obesity awareness rate than education faculty, physical therapy and rehabilitation, sports science faculty students, and obesity awareness levels increased as university students increased their class levels (Sözen ve Bebek, 2018).

As a result, it was found that both physical education teachers and coaching department students had high obesity awareness, but there was no significant difference between the groups in terms of department and gender variables and obesity awareness.

Suggestions

Obesity has become a global problem due to the high cost of treatment and mortality. Obesity awareness is important for families and teachers. Regular exercise and healthy nutrition in all age groups are protective against obesity. In this context, the fact that physical education teachers and coaches are more conscious and aware of obesity is important in preventing obesity. There is a need for greater awareness of the impact of obesity on people's health through information, education and communication.

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