Introduction

Obesity is defined as an abnormal gathering of muscle versus fat, typically 20% or more over a person’s optimal body weight. Obesity is related with the expanded danger of incapacity, disease and ultimately; demise. The reasons for obesity are characterized as; taking an excessive number of calories, living a sedentary lifestyle, not getting enough sleep, nutriment that causes disruption of endocrine function, drugs that have side effects causing weight gain, and genetic variation from one person to another resulting in a higher BMR in some and lower in others. Obesity can be prevented by consuming healthy diet plans, keeping track of the number of calories you consume, being active, and maintaining a healthy weight according to your BMI. Currently, the proportion of 60 years and older worldwide is estimated at 12 percent, and it is increasing rapidly and is estimated to reach 21 percent by 2050. In more established regions, this proportion is predictable to reach 32 percent in 2050. However, a large proportion of senior citizens will undergo chronic conditions or disability, decreased physical capacity, with declining cognitive function, and will engage less in life due to multiple mechanisms of aging derived from environmental and genetic factors. Patients who developed diseases as they aged present the most challenging and complex problems to all health care professionals.

Frailty is defined as a clinical syndrome in which three or more of the following criteria is present: self-reported exhaustion, unintentional weight loss (10 lbs in past year), slow walking speed, weakness (grip strength) and low physical activity. Frailty among older people is a geriatric clinical disorder that incorporates a physiological condition of intensified weakness to stressors that outcome in diminished physiological stores and liberation of various frameworks. It is upheld by a triad of changes identified with the maturing interaction: sarcopenia, neuroendocrine liberation, and immune system dysfunction. It is reported in many different studies that obesity is a confounding factor in frailty. If a person...
wants to prevent themselves from frailty in their advanced years, then he or she must exercise every day and try to stay active. Organizing activities as indicated by an individual’s capacities. Walking/jogging is helpful to maintain a healthy heart, equilibrium, and bulk. Activities utilizing opposition, for example, lifting loads shape muscle and help to diminish joint firmness and pain. Indeed, even little expansions in wellness can further develop side effects of frailty [1–6].

Materials and methods

Study design, settings and duration

A cross sectional descriptive study was conducted from June to August 2018, and data was collected from different areas of Hyderabad, Tando Kaysar, Mirpurkhas, Tando Muhammad Khan, Badeen, Matyari, Matli, Hala, Hingorja, Kot Diji, Mithi, Badin, Khipro & Karachi, Pakistan.

Sampling

Convenient Non-Probability Sampling Technique among the 377 selected participants was used. Participants of both genders (male and female), obese, and aged above 60 years, who were willing to participate, were included in this study. Whereas participants aged less than 60 years, having any disease, unable to stand and unwilling to sign a consent form were excluded from the study.

Data collection tool

A self-constructed proforma was used to collect the data, which included the demographic Characteristics age and gender. While the questions related to frailty required the participant to rate whether “Not frail”, “Intermediate frail” and “Frail”. The patients were categorized into these three classes by asking participants and comparing answers related to their activities of daily life.

Data collection procedure

The participants were asked to fill the questionnaire on the spot, only the minor help was given upon the request of participants in order to understand the questionnaire.

Data analysis procedure

Descriptive statistics; categorical variables were measured as frequency and percentage where the data was analyzed by using Statistical Package for Social Sciences (SPSS) version 23.

Ethical concern

The Ethical approval was taken from the Review Committee of Isra University Karachi, Pakistan and for data collection prior permission was taken from participants. Informed consent was taken from the participants prior to the data collection that their participation is voluntary, and that information of their responses will be kept confidential and they were also informed that they could leave the study any time they wanted.

Results

Table 1 displays demographic characteristics of participants. Majority (n=339, 89.1%) of the participants belongs to to age group of 60-65 years and (n=216, 57.3%) were male.

Table 2 displays Health Status of participants. Majority (n=183, 78.8%) of the participants reported with poor health status followed by (n=95, 30.2%) with good status.

Table 3 displays Level of Frailty among the participants. Majority (n=218, 58%) of the participants were found frail followed by (n=136, 36%) intermediate fragility.

Table 4 Correlation between Obesity and Frailty showed in Table 4 and concluded that there is significant relationship between the obesity and Frailty.

Discussion

In this study we found that obesity has a direct relation with the frailty among older adults. Most of the obese participants were found frail and those obese persons were not able to perform their daily routine activities. Obesity is an unusual gathering of muscle versus fat, generally 20% or more over a person’s optimal body weight. Obesity is related with extended
Risk of illness, debilitation, and downfall. The reason of obesity is to taking too many calories, spending a sedentary lifestyle, not sleeping enough, endocrine disruptors, such as some foods that interfere with lipid metabolism, those medications which puts on weight. Obesity is strongly associated with several major health risk factors. Frailty was found as a clinical syndrome in which following factors were present: self-reported exhaustion, slow walking speed, weakness (grip strength) and low physical activity. In this study most of frail participants were found weak, stressful and low physical active, most of time they were not feeling good, and not able to perform effectively their daily life routine activities [6-11].

Frailty among older people was also found as a geriatric clinical disorder that incorporates a physiological condition of enhanced weakness to stressors because of their diminished disorder, physiological stores and liberation of various frameworks. It is upheld by a group of three of changes identified with the maturing cycle: sarcopenia, neuroendocrine liberation, and resistant framework brokenness. Slightness is viewed as an indicator of antagonistic results, for example, comorbidities, falls, the utilization of medical care administrations, ailments, systematization, disability, adverse consequence on personal satisfaction, mortality, and its predominance is especially pertinent for the field of general wellbeing. Suggestions for weight reduction in corpulent more established grown-ups that limit the probability of unfavourable impacts on bulk, bone thickness, or different parts of healthful status are surveyed. The females were more obese as compare to men (43.7% VS 37.6%). Frailty is common in later stages of life, but different operationalization of frailty status results in widely differing prevalence between studies [4,12]. Vitamin D insufficiency was also found significantly associated with frailty in men, but not in women. Results suggest that PTH mediates the relationship between 25(OH) D and no energy expenditure aspects of frailty. Chronic CMV (Cytomegalovirus) infection is associated with prevalent frailty, a state with increased morbidity and mortality in older adults; inflammation enhances this effect. Frailty in older men is associated with poorer health and a greater risk of mortality [3,4,13-17].

Conclusion

This study concluded that Obesity is found as one of the major contributing factor for frailty among older peoples, therefore Old age individuals should perform exercise on daily bases in order to avoid the Frailty. Moreover the older individuals should monitor their diet and plan an and plan to stay active during the day to prevent weakness and disability which keep themselves physically active accordingly.

Recommendation

Weekly or monthly motivational or exercise activity program should be organized by health care providers. Proper walking and exercise facility should be provide by the government to reduce the problem of obesity and frailty among old age people. Government should organize workshops, seminars and other awareness programs to inform senior citizens of the risks of being obese and frail, which may lead to severe complications.

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Author contributions

Both authors contributed equally.

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