Awareness on Lifestyle Modifications Among Dental Students

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ABSTRACT

Exercise is a regular physical activity that can improve muscular strength, boost endurance, delivers oxygen and nutrients to the tissues, and helps the cardiovascular system work efficiently. The aim of this study is to evaluate the knowledge and practice of physical exercise and the lifestyle modifications among dental students. This questionnaire-based survey was administered to dental students through an online survey planet link. The data was collected and statistically analysed. Students practicing regular exercise with a balanced diet supports to keep them fit, energetic, flexible, weight loss, improves concentration, stress management. Despite students being aware about the benefits of regular exercise they are unable to practice it on a regular basis due to lack of sufficient time, self-motivation. The survey results indicate that most of the college students get adapted to irregular exercise habitual and unhealthy lifestyle patterns. Exercise with a balanced diet helps dental students to improve concentration, reduce stress and maintain physical fitness. Lack of sufficient time terms to be the biggest barrier among students to perform exercise regularly. Irregular exercise patterns persist among most of the dental students hence resulting in an unhealthy lifestyle. This study has created an awareness among the dental students about practicing regular exercises and its effects on lifestyle modification. More awareness camps, seminars, workshops may be conducted to motivate the students in a stronger way to follow a regular workout.

Key words: Exercise, Lifestyle modification, Survey planet, Online survey


INTRODUCTION

The definition proposed by Dr Andrija Stampar, a prominent scholar from Croatia in the field of social medicine and public health and one of the founders of the WHO states that “health is a state of complete physical, mental, and social well-being and not merely the absence of disease or infirmity” [1]. Health is defined as operational and working terms vital for creating policies and programs for maintaining and improving health, and it considerably managed to exceed the widely rooted notion that health simply means the absence of disease. The Ottawa Charter from the 1st International Conference on Health Promotion, held in Ottawa, Canada, in 1986, defines that the word "health" has originated in the context of everyday life and environment, where people live, love, work, and play. The goal of health is to combine the approach for addressing the social determinants with the resolution and commitment to motivate and encourage the individuals and the community for their active approach toward health and embracing healthy lifestyles [2].

Physical activity is defined as any bodily movement produced by skeletal muscles that results in energy expenditure. The energy expenditure can be measured in kilocalories. Physical activity in daily life can be categorized into occupational, sports, conditioning, household, or other activities [3]. Exercise is a subset of physical activity that is planned, structured, and repetitive and has as a final or an intermediate objective the improvement or maintenance of physical fitness. Exercise is the proven method in improving physical health. The low intensity exercise gives the high energy level which boosts the mental and physical strength [4]. Hence there is always a connection between being physically healthy and delivering strong academic performance.
Exercise produces a protein called FNDC5, which is released into the bloodstream. This helps the brain to produce another protein called brain-derived neurotrophic factor (BDNF), which prompts the body to produce new nerves and helps existing brain cells to survive. Intense physical activity initiates the blood flow to the brain, which in turn produces neurons and promotes cell growth. Different types of exercise instigate the brain in different ways, which means certain forms of physical activity will support in increasing the concentration than others. Stress can lead to health problems, such as heart attacks and stomach problems. Exercise helps to sleep better, easing anxiety, relieve the negative effects of stress in the body.

Numerous studies have shown that lifestyle modification such as adopting a healthier diet, increasing physical activity levels and smoking cessation can be effective in the prevention and management of chronic diseases, provided that the health promoters have sufficient knowledge and resources [5]. An important developmental task for college students is to manage their excess stress while actively engaging with healthy, age-appropriate challenges that promote growth. Studies were conducted earlier for evaluating the effectiveness of meditation-based intervention for reducing distress and enhancing well-being among college undergraduate populations [6]. Previous studies on cancer biology nano materials, herbal products [7-12] have motivated me to pursue this current research which is useful to our community. The aim of this study is to evaluate the knowledge and practice of physical exercise and the lifestyle modifications among dental students.

MATERIALS AND METHODS

This questionnaire-based survey is designed based on awareness on the effects of exercise in lifestyle modification among dental students. Data were collected through a survey questionnaire with 15 questions that were filled in an online survey planet link. This study was approved by the Institutional Review Board, Saveetha Dental College. Overall, 100 participants took part in the survey. The questions based on their workout schedules, stress management, daily workout, advantages, and factors disturbing their workout plans were asked to the participant through the link. Among these questions, eight questions were with yes or no options. Other questions are given with appropriate options. The data was collected and statistically analyzed.

RESULTS AND DISCUSSION

Out of 100 Participants who took part in the survey, Figure 1: 62% of participants exercise everyday 38% of participants exercise at irregular intervals. Figure 2: 45% of participants exercise half an hour a day, 39% exercise 10 mins a day, 16% one hour a day and 15% exercise more than one hour a day. Figure 3: 40% of respondents wanted to keep fit 12% respondents opt to give more energy, 14% of respondents opt to increase flexibility, 31% of respondents opt to lose weight and 3% of respondents opt for others. Figure 4: 40% of participants say they have good level of fitness, 45% of participants say average level of fitness, 7% say perfect level of fitness and 7% say unfit.
There are several personal habits that have the potential to impact health behaviors, including time management, academic activities, leisure activities and social media use. Despite the known benefits of regular physical activity, there is significant decline in physical activity participation and an increase in sedentary behavior among the college students. Physical activity is associated with decreased risk of
heart disease, stroke, type-2 diabetes, metabolic syndrome, and lower all-cause mortality rate [13]. This study attempted to examine how lifestyle health behaviors in college student populations are related to academic factors and physical health outcomes. The implications of this study are relevant for college student healthcare providers, campus health and fitness departments and college administrators for informing preventative health interventions to impact lifelong health and fitness [14].

The sample in the current study states that awareness of BMI of Dental students is average due to irregular exercise. Similar Study conducted by Jesse Calestine et al. has concluded that there is a significant evidence among youth that indicates academic outcomes are positively related to better health outcomes though it appears that, among college students, the evidence is much less clear [15,16].

Our study showed that the main reason for irregular exercise during college days was due to time limitations. The issue of time limitations is consistent with the findings of a study conducted at Mansoura University in Egypt that found 35.5% of their students were not engaged in physical exercise due to time limitations [17]. Similarly, a study conducted among university students in Kuwait, and another study conducted in Muscat, both reported that not having enough time was one of the main barriers for not practicing sports [18]. Moreover, a study conducted in Spain among 1834 university students concluded that lack of time was the main barrier that prevented them from practicing sports. These findings emphasize that college students have increased demands to achieve academically, and therefore more time is devoted to studying leaving less time for practicing sports and exercise. Thus, available time would be the greatest obstacle that university students would face [19]. Physical activity is a culturally conditioned behavior. The benefits of regular physical activity are widely known and positively affect wellness by reducing stress and creating better relationships in college students. Similar study done by Simone Wilson-Salandy et al. have evaluated physical activity and the health behaviors of stress management, interpersonal relationships among college students [20].

**CONCLUSION**

Dental students are aware of exercise and its benefits to healthy living. Exercise helps to sleep better, easing anxiety, relieve the negative effects of stress in the body. Exercise has a unique capacity to exhilarate and relax, to provide...
stimulation and calm, to counter depression and dissipate stress. Regular physical activity will lower the blood pressure and reduce blood sugar. Exercise reduces the risk of heart attack, stroke, diabetes, colon and breast cancers, osteoporosis and fractures, obesity, depression, and even dementia (memory loss). Exercise slows the aging process, increases energy, and prolongs life. More awareness camps, seminars, workshops may be conducted to motivate the students in a stronger way to follow a regular workout.

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CONFLICT OF INTEREST
Nil.

REFERENCES