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COMPARISON OF HEALTH OF MEDITATOR AND NON-MEDITATOR UNDERGRADUATE STUDENTS

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Abstract

In the present hectic world, we are so much occupied with work that our health is ignored. There is a need to take a break from the stressful lifestyle to heal our body and mind for which meditation can help. Meditation is a natural healing and rejuvenating process. The present study was conducted to find the effect of meditative practices on health. The descriptive survey method was used to collect the data on health from the individuals who were practicing meditation regularly and those who did not practice meditation. A purposive sampling technique was used and the sample included 34 students pursuing graduation from Panjab University, Chandigarh. The total sample comprised 17 meditator and 17 non-meditator undergraduate students. The data was analyzed using an independent sample t-test and the results revealed that the individuals who were practicing meditation had statistically significantly better overall health i.e., physical, mental, and social than those who did not practice meditation.

Keywords: meditation, physical health, mental health, social health, overall health, undergraduate students

Introduction

Meditation is a family of self-regulation practices that focus on training attention and awareness to bring mental processes under greater voluntary control (Walsh and Shapiro, 2006). Meditative practices make students learn lifelong skills to take personal responsibilities such as regarding their health, happiness and success, and social responsibilities such as being compassionate, empathetic and inclusive to others. (Ramasubramanian, 2017). The practice of mindfulness meditation resulted in improvements in wellbeing among the practitioners (Fazia et al., 2023; Hanna & Pidgeon, 2018; Ramasubramanian, 2017; De Vibe et al., 2013; Yang et al., 2018).

Meditative practices work on both surfaces i.e., external and internal to prolong the body's anabolic process of growth and repair, reduce catabolism, prevent and cure diseases, and bring the elements of the body to optimum levels with the help of vibrations of meditative practices penetrating all the cells (Sharma, 2018). Meditative practices significantly improved cardiovascular efficiency and homeostatic control of the body and played a significant beneficial role in the prevention of heart disease and stroke (Shilpa et al., 2020). The Transcendental Meditation program helps in reducing the risk of mortality, myocardial infarction, and stroke in the case of coronary heart disease patients; (Schneider, 2012) and is effective in improvements in blood pressure and cardiovascular function among adolescents at risk for hypertension (Barnes, 2001). Sahaja Yoga Meditation resulted in significant improvements in the blood pressure of the participants (Chung et al., 2012); and the same results were repeated with the Mantra Meditation (Steinhubl et al., 2015). Mindfulness meditation effectively reduced systolic blood pressure among nursing students (Chen et al., 2013) and produced demonstrable effects on the immune function of the practitioners (Davidson, 2003). Brain education-based meditation resulted in significant reductions in the levels of LDL cholesterol among diabetic and hypertension patients (Lee et al., 2019). Meditative practices can be effective in lowering tension and promoting healing throughout the body (Kornfield, 2018).

Meditation works on different levels i.e., senses, mind, intellect, and emotions (Sharma, 2015); further, as an effective tool for the reduction of psychological distress (Phang et al., 2016; Valosek, 2021).



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Mindfulness meditative practices helped to improve psychological health among college students (Ramasubramanian, 2017); decreased mental distress among medical and psychology students (Phang et al., 2015; De Vibe et al., 2013); and reduced overall distress among medical students (Fazia et al., 2023).

The practice of meditation resulted in lower levels of fatigue among the participants (Bleasdale et al., 2020; Mo et al., 2021; Tang et al., 2007). Mindful-based training exhibited significant reductions in compassion fatigue among human service professionals (Hanna & Pidgeon, 2018). Chaplains working in hospices for older adults practicing meditation exhibited lesser emotional exhaustion and depersonalization as burnout markers (Pandya, 2020); also, practicing meditation resulted in preventing burnout among human service professionals (Hanna & Pidgeon, 2018; Sepalla et al., 2014).

The practice of meditation led to a reduction in the scores of stress among college students (Burns et al., 2011; Dorais & Gutierrez, 2021; Lemay et al., 2019; Oman et al., 2008; Ramasubramanian, 2017; Ueberholz & Fiocco, 2022). Significantly reduced stress levels were exhibited among college and university students as a result of practicing mindfulness meditation (Borjalilu, 2018; Cavanagh et al., 2013; Huberty et al., 2019; Lyzwinski, 2019). The practice of mindfulness-based meditation led to significant reductions in the levels of stress among the participants of the study (Axelsen, 2022; Champion et al., 2018; Kemper & Khirallah, 2015). Mindfulness practice further resulted in effective reductions in perceived stress scores among medical and nursing students (Erogul et al., 2014; Fazia et al., 2023; Phang et al., 2015; Phang et al., 2015; Ratanasiripong, 2015; Spadaro & Hunker, 2016; De Vibe et al., 2013; Warnecke et al., 2011; Yang et al., 2018); and the same results were obtained for student counselors after practicing Jyoti meditation (Gutierrez et al., 2016). There was an improvement in mental health and a reduction in perceived stress among passage meditation practitioners (Oman, Hedberg & Thoresen, 2006).

Practicing Integrative meditation led to lower levels of depression in Chinese undergraduates (Tang et al., 2007). Students showed significant reductions in depression scores as a result of practicing transcendental meditation (Bleasdale et al., 2020; Borjalilu, 2018; Burns et al., 2011) and mindfulness-based meditation (Bennett & Dorjee, 2015; Cavanagh et al., 2013). Loving-kindness meditation helped in reducing harmful elements of depression at work among the employees of Microsoft Corporation in the United Kingdom (Quirk & Ivtzan, 2018). Preksha meditation is conducive to calming the brain and getting control over normal wandering nature by increasing alpha waves in the brain (C Sanchetee & Pragya, 2020).

Practicing meditative interventions resulted in improvements in emotional regulation among the participants (Fazia et al., 2023; Menezes et al., 2013). The practice of meditation helped to decrease anxiety significantly among the students at different levels (Bennett & Dorjee, 2015; Bleasdale et al., 2020; Borjalilu, 2018; Burns et al., 2011; Cavanagh et al., 2013; Chen et al., 2013; Greif & Kaufman, 2019; Lemay et al., 2019; Menezes et al., 2013; Paul et al., 2007; Ratanasiripong, 2015; Tang et al., 2007; Warnecke et al., 2011; Wendt et al., 2015); and same results were repeated among the practitioners of Sahaja Yoga Meditation (Chung et al., 2012). The students who practiced meditation showed significant reductions in anger (Bleasdale et al., 2020; Tang et al., 2007); further, the practice of Deep breathing meditation exhibited decreased nervousness, self-doubt and concentration loss among the students (Paul et al., 2007).

Meditation is a method of physical and mental self-regulation that can adjust mental state and correct behavioral patterns (Mo et al., 2021). Mindfulness can serve as a useful tool to boost positive emotions that can correct negative emotions (Ramasubramanian, 2017). The practice of a brief integrative meditation resulted in a higher positive mood in Chinese undergraduates (Tang et al., 2007). Health professionals who practiced mindfulness-based meditation significantly improved their empathy levels



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(Kemper & Khirallah, 2015). Participants of online meditation programs exhibited greater geriatric social work competencies (Pandya, 2019).

Regular practice of meditation can help in developing habitual, unconscious micro behaviors that may produce extensive positive effects on both the physical and psychological functioning of the human body (Manocha, 2001). Preksha Meditation helps in improving physical, psychological and social health; and decreasing stress among elders (Sanchetee, Jain & Agarwal, 2017). Long-term Sahaja Yoga meditation practitioners experience better quality of life and functional health than the general population (Manocha, Black & Wilson, 2012). Through the regular practice of meditation, the mind becomes pure, clear and spiritually motivated (Sharma, 2018). It helps us to discover new possibilities to awaken our dormant capacity to live more wisely, more compassionately, more lovingly, and more fully (Kornfield, 2018).

Objectives

- 1. To find out the difference between the physical health of meditator and non-meditator undergraduate students of Panjab University.
- 2. To find out the difference between the mental health of meditator and non-meditator undergraduate students of Panjab University.
- 3. To find out the difference between the social health of meditator and non-meditator undergraduate students of Panjab University.
- 4. To find out the difference between the overall health of meditator and non-meditator undergraduate students of Panjab University.

Methodology

In the present study, the descriptive survey method of research was employed and the data was collected on health from the individuals who were practicing meditation regularly and those who did not practice meditation. Four departments i.e., Department of Physics, Chemistry, Geology and Mathematics were randomly selected from Panjab University, Chandigarh and then purposive sampling technique was used to collect data from the sample of 34 students comprising 17 meditators and 17 non-meditators. The students who regularly practice meditation were purposively selected as meditators and the same number of students from the same class who don't practice meditation were selected randomly as non-meditators. Those students who had been practicing meditation for at least an hour per week from at least the last six months were selected as meditators and those who had never done meditation in their life were taken as non-meditators.

The five-point Likert Scale which was administered to collect data on health was developed by the researcher keeping in view the objectives of the study. It consisted of three dimensions of health i.e., physical, mental and social; and comprised of 27 items out of which 7 items were of physical dimension, 14 items were of mental dimension and 6 items were of social dimension. The items on the scale were in terms of both positive and negative statements; each statement had 5 options i.e., always, often, can't say, sometimes and never. The scale was given to the experts for face and content validity and the items agreed by the experts were retained and other items were either modified or discarded. The scoring was done as 5 for always, 4 for often, 3 for can't say, 2 for sometimes and 1 for never for positive statements and 1 for always, 2 for often, 3 for can't say, 4 for sometimes and 5 for never for negative statements.

Results and Interpretation

The scores were analyzed by using a t-test to find out the difference between the health of meditator and non-meditator undergraduates and results were interpreted at 0.05 level of significance.

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Variable	Group	N	Mean	SD	SEM	SED	df	t-value	Sig.	Result
Physical	Meditators	17	23.588	2.895	.702	1.188	32	4.111	.000	Statistically





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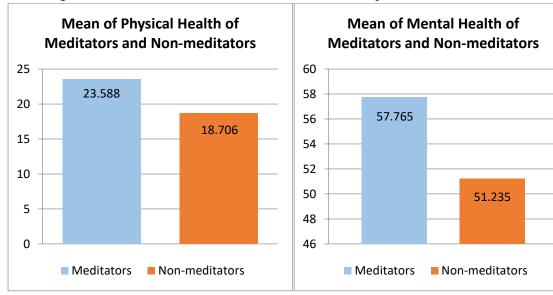
Health	Non-meditators	17	18.706	3.949	.958					significant
Mental	Meditators	17	57.765	7.750	1.880	2.694	32	2.424	.021	Statistically
Health	Non-meditators	17	51.235	7.957	1.930					significant
Social	Meditators	17	21.647	3.823	.928	1.388	32	2.204	.035	Statistically
Health	Non-meditators	17	18.588	4.258	1.033					significant
Overall	Meditators	17	103.00	11.880	2.881	4.355	32	3.323	.002	Statistically
Health	Non-meditators	17	88.529	13.463	3.265					significant

The value of t-ratio calculated in the table for physical health was found to be 4.111 which was higher than the table value (1.96) at 0.05 level of significance, showing a significant difference in physical health of meditator and non-meditator undergraduate students. The mean for meditator students (23.588) was found to be higher than the mean for non-meditator students (18.706) on physical health, indicating meditator students have better physical health as compared to non-meditator students.

The value of the t-ratio calculated in the table for mental health was found to be 2.424 which was higher than the table value (1.96) at 0.05 level of significance, showing a significant difference in the mental health of meditator and non-meditator undergraduate students. The mean for meditator students (57.765) was found to be higher than the mean for non-meditator students (51.235) on mental health, indicating meditator students have better mental health as compared to non-meditator students.

The value of t-ratio calculated in the table for social health was found to be 2.204 which was higher than the table value (1.96) at 0.05 level of significance, showing a significant difference in the social health of meditator and non-meditator undergraduate students. The mean for meditator students (21.647) was found to be higher than the mean for non-meditator students (18.588) on social health, indicating meditator students have better social health as compared to non-meditator students.

The value of the t-ratio calculated in the table for overall health was found to be 3.323 which was higher than the table value (1.96) at 0.05 level of significance, showing a significant difference in the overall health of meditator and non-meditator undergraduate students. The mean for meditator students (103.00) was found to be higher than the mean for non-meditator students (88.529) on overall health, indicating meditator students have better overall health as compared to non-meditator students.



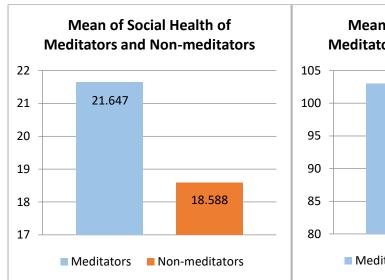


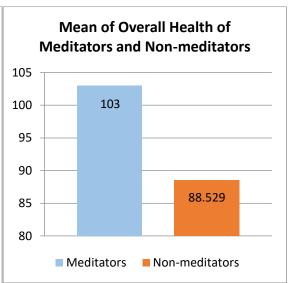


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Discussion

We are living in the chaotic world of the 21st century which could be referred to as an era of stress and strain. We are living so fast that we don't have time for ourselves and we have been so engrossed in our daily lives that health has taken a backseat. Therefore, we need time to get out of this lifestyle to live again, to come closer to ourselves, and to heal our bodies, minds and souls.

Meditation is a natural healing and rejuvenating process which is a practice of mind and body that is known for increasing calmness and physical relaxation, improving psychological balance and enhancing overall health and wellbeing (n.d., 2019). Results of the present study have shown that it aids in the betterment of the overall health of undergraduate students which covers every aspect of their life i.e., physical, mental and social. These findings are aligned with the previous research that showed the positive effects of meditative practices on physical health (Barnes, 2001; Chen et al., 2013; Chung et al., 2012; Davidson, 2003; Kornfield, 2018; Lee et al., 2019; Schneider, 2012; Sharma, 2018; Shilpa et al., 2020; Steinhubl et al., 2015); mental health (Cheng, 2016; Fazia et al., 2023; Phang et al., 2015; Phang et al., 2015; Ramasubramanian, 2017; Valosek, 2021; De Vibe et al., 2013); and social health (Hanna & Pidgeon, 2018; Hutcherson et al., 2008; Pandya, 2020; Seppala et al., 2014).

Implications

According to WHO (1948), "Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity." Physical health refers to the state when all body organs function well. If physical balance gets disturbed, one may need treatment to bring that balance again (Felman, n.d.). Various factors contribute to the proper working of the heart, appropriate rate of breathing, muscular strength, flexibility and body composition; and meditative practices are a strong tool for preventing and curing diseases (Sharma, 2018); for removing physical disorders (Rai, 2015); and for healing the body (Kornfield, 2018).

The mental health of a person is a state of complete psychological, emotional and spiritual wellness. It relies on the ability of a person to adapt to adversity, achieve his potential and enjoy life. Meditative practices can be used as a preventive and curative measure to promote mental wellness (Cheng, 2016). We are not only individual beings; we are also parts of some societies and communities which makes the space of social health in the definition of health by WHO. Social health stands for a sense of belongingness and concern for others including positive relations with family and friends that build a support system around an individual which makes him healthier. Meditative practices expand the consciousness of a person and make him more aware of himself and his surroundings. The practice of



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meditation for just a few minutes increases feelings of social connection and positivity towards novel individuals on both implicit and explicit levels (Hutcherson et al., 2008).

Limitations

The results of the study are to be carefully interpreted as the study has various limitations; the small sample size is the first limitation of the study. Secondly, as the study was descriptive; there is no clarity about the types of meditations practiced by the students. Further, the whole research relies on self-reported measures; for the record of the practice of meditation as well as for the filling up of questionnaires; which may result in response bias as per social desirability instead of original data. After this, students selected as meditators and non-meditators were not matched on the demographic variables; instead, the same number of non-meditators as that of meditators were selected randomly from the class from which the meditators were selected. The above limitations were stated to improve the further research for which the present research may serve as a base or reference.

Suggestions for further research

The study can be replicated on various other types of populations to generalize the results to a more diverse population. The study can be replicated with different study designs such as experimental designs to see the specific effects of different meditative practices on the different aspects of the health of the students. The psychophysiological and neurocognitive tests can be used in further studies that may record the subtle effects of meditative practices on health. The study can be extended keeping in view the above suggestions to add more to the effects of meditative practices on the health and well-being of people.

Conclusion

The results show that meditator students have better physical, mental, social and overall health as compared to non-meditator students. Meditation works as a tonic to heal the mind and body (AAMI, 2020). It is being embraced as a valuable tool for stress reduction and a device for healing both physical and mental disorders by healthcare professionals as well as laypeople (Manocha, 2001). Regular practice of meditation enhances the well-being of an individual (Carmody and Baer, 2007). So, one must meditate regularly to have better health, overall as well as in all dimensions i.e., physical, mental and social. Meditation is considered as perfect therapy to keep the body, mind and soul balanced (Rai, 2015; Sampaio, 2016). It has the power to turn your life into a celebration (Sharma, 2018).

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