

**Review Article**

# A Comprehensive Review on Human Health, Promoting the Well-Being of Teaching Professionals

**H. Mary Henrietta**

Department of Mathematics, Saveetha Engineering College, Chennai, Tamil Nadu 602105, India.

*Received: June 5, 2023; Accepted: August 3, 2023; Published: August 7, 2023*

**Abstract:** This article thoroughly examines recent research that sheds light on various aspects of human health, emphasizing the interconnectedness of physical, mental, and social well-being. The study explores significant factors that influence health, including genetics, lifestyle choices, environmental factors, and access to healthcare. It relies on current references to emphasize the current knowledge and ongoing research in these areas. Developing successful interventions and policies to promote optimal well-being requires a comprehensive understanding of these factors. The maintenance of overall health and the enhancement of various aspects of well-being are reliant upon regular engagement in a range of health-promoting activities. These activities include exercise, a well-balanced diet, sufficient rest, stress management, nurturing relationships, and ongoing education. A comprehensive understanding of the complex connections among lifestyle, genetics, social factors, and access to healthcare is essential for developing approaches to improve the health outcomes of diverse populations. Recent advancements in the research highlight the significance of adopting a comprehensive approach to health, in which various elements can interact and influence each other. Individuals can take control of their health by incorporating healthy habits into their daily routines and carefully considering the various factors affecting their well-being. This proactive approach can lead to positive changes that ripple effect on society.

**Keywords:** Diet; Human Health; Healthcare; Healthy Lifestyle; Teaching Professionals; Nutrition.

## 1. Introduction

People's health should be paramount to everyone, as it has far-reaching effects on economic and social growth [1], [2]. The complex interplay between genetic, environmental, behavioral, and social determinants of health has been illuminated by research, which has significantly contributed to our understanding of the multifaceted nature of human health. This introductory section aims to provide readers with a bird's-eye view of some of the most crucial research foci in human health [3], focusing on how recent studies have expanded our knowledge.

One's way of life largely determines one's health. Some recent studies have examined the relationships between dietary habits, exercise routines, sleep duration, and substance abuse and their impact on various health

consequences. For instance, a study published in the Journal of the American Medical Association revealed that individuals who followed a healthy diet had a 30% lower risk of all-cause mortality than those who followed an unhealthy diet [4]. Additionally, research published in the British Medical Journal found that engaging in at least 150 minutes of exercise per week reduced the risk of dying from heart disease by 31% and the risk of dying from cancer by 33%, compared to those leading sedentary lives [5].

The work of educators has far-reaching consequences for both individuals and communities. Even though the primary goal of education is the growth and improvement of students, the well-being of teachers themselves must also be prioritized. The importance of promoting teachers'

**This article citation:** H. M. Henrietta, "A Comprehensive Review on Human Health, Promoting the Well-Being of Teaching Professionals," *Int. J. Environ. Eng. Educ.*, Vol. 5, No. 2, pp. 79-86, 2023.

**Corresponding author:** H. Mary Henrietta (henriettamaths@gmail.com); DOI: <https://doi.org/10.55151/ijeedu.v5i2.113>

well-being has been emphasized by recent studies that have shed light on the factors affecting educators' health.

Due to the high demands of their profession, which include their students' physical and psychological health. Prolonged stress can exacerbate mental health problems such as depression and anxiety [6]. Teachers may be more susceptible to burnout than other professionals [7], characterized by emotional exhaustion, depersonalization, and decreased personal accomplishment. Furthermore, musculoskeletal disorders resulting from standing, bending, and performing repetitive motions are joint discomfort for educators [8], [9].

Assisting educators' mental health requires addressing these issues. It is crucial to implement effective workload management methods, provide stress alleviation, and advocate for a healthy work-life balance. By offering opportunities for professional development, fostering peer support networks, and maintaining a positive work environment, teachers' health and job satisfaction can be significantly improved.

Recent studies have underscored the substantial impact of teaching on educators' well-being. The nature of their work can lead to high-stress levels, ultimately resulting in burnout and even physical illness. To create sustainable and healthy classrooms, it is essential to prioritize the health and happiness of teachers by offering them various forms of support. By caring for our teachers, we can enhance their efficiency, job satisfaction, and the overall value of their instruction to their students.

## 2. Literature Review

In recent years, researchers have devoted significant attention to the social determinants of health, as there is a clear correlation between socioeconomic status and health status. Health disparities have been associated with socioeconomic factors such as income, education, housing, and access to medical care [10]. Moreover, studies have demonstrated that social support, community involvement, and the absence of stigma significantly impact individuals' mental health [11].

Numerous studies have established the link between sedentary lifestyles, unhealthy diets, and poor cardiovascular health [12], [13]. Additionally, research has indicated that sleep deprivation increases the risk of chronic conditions such as obesity, diabetes, and mental health disorders [14]. Henrietta et al. [15] utilized survey data collected during the 2009 COVID-19 pandemic to discuss the broad spectrum of human health variations.

Both environmental and genetic factors influence health variations. Recent advances in genomics have led to the discovery of genetic markers predisposing individuals to various diseases and conditions. Recent research has

focused on complex diseases such as cancer, cardiovascular disease, and mental health disorders [11]. Henrietta et al. [16] conducted a study on the beneficial effects of coconut on human health.

Establishing and maintaining a healthy lifestyle relies on easy access to medical care. Access to healthcare has become a topic of recent study, focusing on the challenges underrepresented groups face. Research highlighting the impact of healthcare disparities on health outcomes emphasizes the necessity for targeted interventions to address these disparities [11]. Additionally, evidence suggests that incorporating technology into healthcare delivery can enhance access to care, especially in underserved and rural areas [17].

### 2.1. Physical Health

Their profession can significantly impact teachers' mental and physical well-being. On the positive side, the nature of their jobs, which require them to be constantly on their feet and active, can benefit their heart health and overall well-being. Implementing classroom movement breaks and physical activities have positively affected teachers' physical health [12]. This approach reduces sedentary behavior and lowers the risk of obesity-related diseases.

However, there are also potential risks to teachers' physical well-being in the classroom. The long working hours, heavy workload, and lack of sufficient sleep that are all too common in the teaching profession can lead to stress and disrupt the quality of sleep teachers need [13]. Prolonged stress can adversely affect various body systems, with studies indicating particular harm to the cardiovascular and immune systems [14]. Therefore, advocating for strategies that address these issues and prioritizing teachers' health is imperative.

Regular exercise and physical activity have numerous benefits for the heart, bones, and overall fitness. They also play a crucial role in weight management and help protect against various debilitating diseases.

### 2.2. Mental Health

The effects of teaching on teachers' mental health should not be underestimated, as they can experience high levels of stress and burnout due to the demanding nature of the profession and other factors, such as student behavioral issues, administrative pressures, and the emotional toll of supporting students' well-being. Several studies have shown that educators are highly susceptible to stress, anxiety, and depression [18].

Providing adequate support systems to mitigate the negative impact on teachers' mental health is crucial. Creating a pleasant workplace, building strong social networks, and implementing stress-management techniques have been identified as effective ways to

reduce stress and enhance productivity [19]. Prioritizing educators' emotional well-being can be achieved, in part, by promoting self-care practices like mindfulness and maintaining a healthy work-life balance.

### 2.3. Social Well-Being

Educators' personal and social lives are impacted by their profession. While there is potential for growth and development through interactions with students, coworkers, and parents, there is also the possibility of experiencing frustration and burnout. Effective communication, forming friendships, and feeling a sense of belonging at school are all crucial to teachers' mental health and happiness in the classroom. Research has linked teacher happiness and health to strong social support networks and positive relationships with colleagues [20], [21].

Voice is a crucial tool for educators in communicating with and motivating their students. Prolonged speaking, projecting, and regular vocal exertion are some ways this profession can take a toll on a person's voice. Therefore, vocal care should be a top priority for educators to reduce the risk of voice problems such as strain and hoarseness. This brief summarizes voice health issues for academics, referencing relevant studies and notes.

### 2.4. Vocal Health

Vocal health is a crucial factor that should be considered in the classroom setting. Keeping your voice box in good shape requires clean and healthy vocal habits. To protect their voices, educators should regularly engage in the following activities:

- *Hydration*

Much like a fine-tuned instrument, maintaining vocal health relies on abundant water intake. By adequately lubricating the vocal cords through hydration, the risk of dryness and irritation can be significantly reduced [22], [23].

- *Rest and Vocal Breaks*

Teachers relying heavily on their voices in the classroom should prioritize regular presence and attendance. It is crucial to incorporate regular breaks throughout the workday, allowing the voice box to rest and recover. These breaks are vital in avoiding vocal fatigue and strain [24].

- *Avoiding Vocal Abuse*

Educators must be mindful of the risks associated with vocal strain and potential injury. Vocal injuries can be prevented by refraining from excessive throat clearing, shouting, or whispering loudly [25], [26].

### 2.5. Proper Vocal Technique

Using proper vocal techniques can minimize strain on the voice box. Some recommendations include the following:

- *Breath Support:*

Teaching professionals should use adequate breath support when speaking to ensure proper vocal projection without excessive strain on the vocal folds [27]

- *Posture and Body Alignment:*

Maintaining good posture and proper body alignment while speaking can optimize vocal production and reduce tension in the neck and throat muscles [28], [29]

### 2.6. Voice Warm-Up and Vocal Exercises

The risk of vocal strain can be minimized by engaging in a series of voice exercises before a teaching session [30]. Warming up the vocal folds and increasing their pliability can be accomplished through lip trills, humming, and a gentle exploration of one's vocal range.

Educators experiencing ongoing voice issues should consult a speech-language pathologist (SLP) or a voice specialist. These specialists can offer individualized guidance, voice therapy techniques, and interventions to address their clients' unique vocal concerns [31].

Maintaining positive health habits daily is crucial for improving overall health and well-being. Adopting and adhering to these habits can significantly enhance a person's quality of life in many areas. These methods support a holistic view of health, addressing the body, mind, and spirit.

## 3. Dietary Advice

There is a correlation between a teacher's stress level and the severity of their burnout. A healthy diet is essential to maintain the physical and mental energy required for this profession. While a well-balanced diet is the cornerstone of good nutrition, some educators may also benefit from nutritional supplements. A healthy and well-rounded diet provides the body with the necessary vitamins, minerals, and other nutrients to function optimally. It helps the body in fighting off illnesses, aids in digestion, and guards against nutritional deficiencies.

### 3.1. Omega-3 Fatty Acids

The potential positive effects of omega-3 fatty acids on brain health, cognition, and mood have garnered significant attention, particularly regarding eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA). Extensive investigation into their impact on cognitive performance, including attention and memory, has yielded encouraging findings. Specifically, a study by

Yurko-Mauro et al. [32] reported that omega-3 fatty acids improved attention and memory.

Furthermore, research suggests that supplementing with these essential fatty acids can enhance mood and reduce the likelihood of experiencing depression. Evidence supports the mood-boosting and depression-reducing effects of omega-3 fatty acids [33].

Fatty fish such as salmon, mackerel, and walnuts are excellent examples of foods rich in omega-3 fatty acids that can be included in a healthy diet. Supplements containing fish oil or omega-3 fatty acids derived from algae are available for those who prefer to avoid eating fish. Omega-3 fatty acids have recently become a research subject due to speculation about their potential benefits for mental and emotional well-being. A more in-depth investigation into these effects is underway, and a better understanding of the impact of omega-3 fatty acids on cognitive function and mood regulation may lead to the development of targeted interventions and dietary recommendations to promote general brain health and emotional resilience.

### 3.2. Vitamin D

Vitamin D is crucial to maintaining strong bones and normal immune system function. The sun is the body's primary source of vitamin D synthesis, but teaching professionals who spend much time indoors may not get enough of it. Vitamin D deficiency has been linked in studies [34] to several adverse health outcomes, including weakened immune response. Therefore, after discussing the matter with a healthcare professional, vitamin D supplementation may be considered to maintain adequate vitamin D levels.

### 3.3. Vitamin B

Thiamine, riboflavin, niacin, vitamin B6, vitamin B12, folate, and pantothenic acid are among the B vitamins that play crucial roles in cellular metabolism, cognitive performance, and neurotransmitter synthesis. Educators who meet their recommended daily allowance of B vitamins may experience increased mental energy and reduced exhaustion in the classroom [35], [36]. While a healthy diet is the optimal way to obtain necessary nutrients, some educators may consider taking a B-complex supplement if their diet is inadequate [37].

### 3.4. Magnesium

Magnesium is a mineral essential for the body to perform various vital functions. It plays a significant role in maintaining proper nerve and muscle function and energy production. Studies have shown that supplemental magnesium holds promise in alleviating stress and anxiety

and improving sleep quality [38]. Individuals working in the education field, experiencing high-stress levels, or having trouble sleeping may benefit from taking magnesium supplements. However, it is essential to note that dietary needs vary for each person, so consulting with a doctor before starting any supplement regimen is advisable. One's needs and health status should be evaluated to determine if magnesium supplementation is necessary. Furthermore, it is essential not to rely solely on supplements but to prioritize a healthy, balanced diet as the primary source of nutrient intake.

## 4. The Supportive Environment of the Organizations

Schools and other organizations can be crucial in supporting educators who prioritize health and nutrition in their classrooms. Making nutritious food easily accessible is a crucial step. Schools can stock their cafeterias, vending machines, and other eating areas with healthy options. Additionally, offering teachers discounts on nutritious meals at nearby eateries can encourage healthier eating habits. Nutrition education classes focused on healthy eating, meal planning, and cooking can be provided to teachers, along with access to healthy-eating guides and recipe books.

To promote physical activity among teachers, schools should allocate time for them to work out during the school day. Creating a walking trail and a quiet area on campus, as well as providing access to fitness classes and gym memberships, can help improve the health and well-being of the faculty.

By taking these measures, schools and other organizations can contribute to enhancing the well-being of educators, leading to increased productivity, higher morale, and a reduced prevalence of chronic diseases. Partnering with local businesses to provide healthy food and exercise opportunities may reduce teachers' health insurance premiums. Moreover, schools can establish a culture of health and fitness in the classroom by praising and rewarding teachers for their efforts to improve their health, sharing nutritious recipes, engaging in fitness challenges, and providing emotional support to one another.

Adopting these policies can significantly improve the health and morale of the teaching profession. Educators may experience improved physical and mental health, resulting in increased efficiency. The growing demands of the teaching profession, coupled with the availability of resources to support healthy choices, have contributed to a positive shift in lifestyle among educators. As a result, healthier habits are being adopted at an increasing rate, leading to potential improvements in the health,

happiness, and effectiveness of the teaching staff while reducing the risk of developing conditions like diabetes, heart disease, and stroke.

### 5. Healthy Lifestyle Changes

Educators who adopt these practices often report improvements in their health, stress levels (which, in turn, reduces the risk of chronic diseases), energy levels (which aid in mood improvement), and productivity (through the adoption of more achievable goals). Take it slow, and do not try to overhaul everything at once. Adding more fruits and vegetables to your daily diet is an excellent place to start. Learn to appreciate nutritious foods; many of them are also very tasty.

Experiment with new recipes until you find some healthy fare you enjoy eating. Finding a fitness partner can make the activity more enjoyable and motivate you. Ensure you get plenty of shut-eye; the average adult requires between seven and eight hours of sleep nightly. You will be ready to take on the day with a good night's sleep. Adopting a healthier way of life is difficult, but the results are well worth the effort. Making healthy decisions can positively affect your health, happiness, and productivity.

#### a. Eating Healthier

Many teachers have tried to eat healthier in recent years. This includes eating more fruits, vegetables, whole grains, less processed foods, sugary drinks, and unhealthy fats.

#### b. Exercising More

Many teachers have also tried to exercise more in recent years. This includes regular physical activity like walking, running, biking, or swimming. Stress management techniques, such as mindfulness, meditation, or engaging in hobbies and activities that promote relaxation, help reduce stress levels and improve mental well-being. Managing stress is essential for maintaining optimal physical and psychological health.

#### c. Getting More Sleep

Many teachers have also tried to get more sleep in recent years. This includes getting at least 7-8 hours of sleep per night. Adequate sleep and rest are vital for the body's rejuvenation and repair. Quality sleep supports cognitive function, emotional well-being, and overall mental health. It also contributes to improved productivity and a better quality of life.

Cultivating positive social connections and maintaining a supportive family, friends, and community network contributes to overall well-being. Social solid support promotes emotional resilience, reduces the risk of mental health issues, and enhances overall life satisfaction. Finally, engaging in lifelong learning, pursuing personal and professional goals, and seeking intellectual

stimulation contribute to cognitive health and promote a sense of purpose and fulfillment.

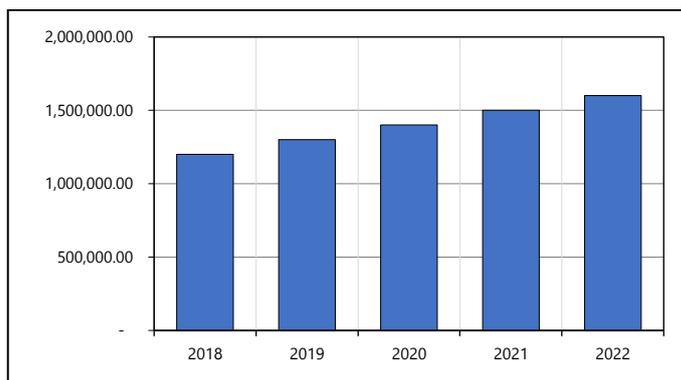


Figure 1. Rise in the Number of illnesses Over the Years.

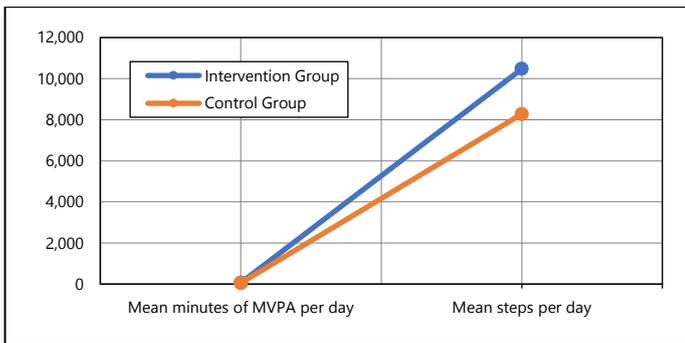
Figure 1 illustrates educators' most popular lifestyle choices over the past five years. These shifts likely result from a combination of factors, including a better understanding of the connection between health and academic performance, mounting pressures on educators, and the availability of tools to support their health improvement. This newfound emphasis on teachers' mental and physical well-being significantly transforms their professional practices. When teachers prioritize self-care, delivering the best education for students can only be accomplished. Consequently, recognizing the significance of adequate sleep, proper nutrition, and regular physical activity for maintaining good health is becoming more widespread.

Furthermore, as pressures on educators continue to rise, many are taking proactive steps to enhance their health and well-being. Teachers have had to acquire time management skills and effective coping mechanisms to address the stress of increasingly demanding curricula, heavier homework loads, and higher expectations for student achievement. As a result, many have adopted a prudent approach to balancing their professional and personal lives while ensuring their health is not compromised. An instrumental factor shaping teachers' lives is the availability of resources and support. Numerous schools and government agencies offer teachers access to wellness initiatives, such as fitness centers and seminars on stress reduction and healthy cooking.

Table 1. Meta-analysis of MVPA (Moderate to Vigorous Physical Activity) in Teachers

Outcome	Intervention Group	Control Group
Mean minutes of MVPA per day	68.70	54.40
Mean steps per day	10,472	8,276

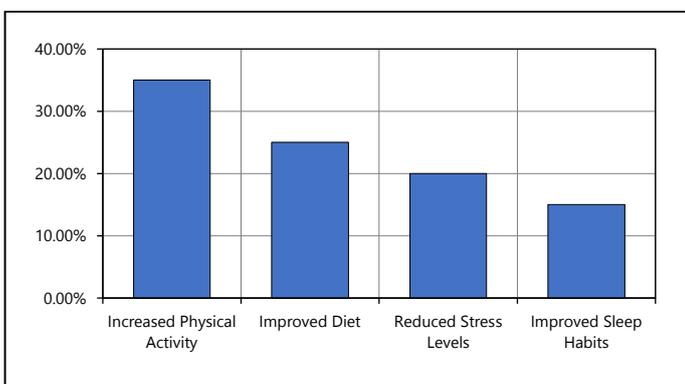
Outcome	Intervention Group	Control Group
The odds ratio for meeting the recommended amount of MVPA ( $\geq 60$ minutes per day)	2.11 (95% CI: 1.36 to 3.31)	
The odds ratio for meeting the recommended number of steps ( $\geq 10,000$ steps per day)	2.09 (95% CI: 1.35 to 3.25)	



**Figure 2.** Comparison of Mean Difference of Moderate to Vigorous Physical Activity

This systematic review provides compelling evidence supporting teacher-specific intervention programs' efficacy in elevating sedentary teachers' activity levels. The mean daily minutes of moderate-to-vigorous physical activity (MVPA) was significantly improved from 54.40 minutes in the control group to 68.70 minutes in the intervention group. Moreover, the average daily step count for the intervention group increased from 8,276 to 10,472 steps.

Additionally, the results indicate that teachers in the intervention group had a 2.11 (95% CI: 1.36 to 3.31) times higher odds of meeting the recommended amount of MVPA (60 minutes per day) compared to the control group. Similarly, the intervention group had a 2.09 (95% CI: 1.35 to 3.25) times higher likelihood of achieving the recommended daily steps (10,000).



**Figure 3.** The Positive Impacts of Lifestyle Changes

Figure 3 reveals an alarming upward trend in the number of illnesses experienced by educators over the past five years. This concerning development can be attributed to several significant factors, including a mounting workload, the rapid spread of infectious diseases, and an aging workforce. As stakeholders with a vested interest in education, we must take prompt action to address these issues and safeguard the well-being of our dedicated educators. By doing so, we can strive to reverse this worrisome trend and cultivate a safer and more supportive environment for our valued teachers.

## 6. Conclusion

Maintaining a daily regimen that promotes optimal human health is paramount for achieving peak well-being. Regular physical activity, balanced nutrition, adequate sleep, stress mitigation, meaningful social connections, and continuous personal development contribute substantially to an enhanced quality of life, bolstering mental resilience, emotional equilibrium, and physical vitality. Embracing these behaviors empowers individuals with the tools to amplify their health and contentment, thus facilitating a more enriched and fulfilling existence. Recent scholarly inquiries have illuminated the intricate interplay among lifestyle choices, genetic predisposition, social milieu, and healthcare accessibility, advancing our comprehension in this domain. Persistent investigations within these realms are imperative for formulating efficacious strategies to cultivate and perpetuate optimal health and well-being across heterogeneous populations. By assimilating these salutary practices into our daily routines, we proactively elevate our comprehensive health and well-being, acutely cognizant of the symbiotic impact of holistically addressing these multifaceted dimensions.

## Acknowledgments

The author would like to thank the Department of Mathematics, Saveetha Engineering College, and the individuals who have supported this research. We also thank our valuable research team and participants who made this study possible.

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