ISSN: 0975-833X

Available online at http://www.journalcra.com

International Journal of Current Research
Vol. 18, Issue, 06, pp.37551-37555, June, 2026
DOI: https://doi.org/10.24941/ijcr.50660.06.2026

INTERNATIONAL JOURNAL OF CURRENT RESEARCH

RESEARCH ARTICLE

OCCUPATIONAL, LIFESTYLE, AND RESIDENTIAL FACTORS INFLUENCING THE HEALTH OF INFORMATION TECHNOLOGY PROFESSIONALS: A COMPREHENSIVE REVIEW

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ARTICLE INFO

Article History:
Received 27th March, 2026
Received in revised form
24th April, 2026
Accepted 25th May, 2026
Published online 30th June, 2026

Keywords:
Information Technology Professionals, Sedentary Behaviour, Musculoskeletal Disorders, Apartment Living, Occupational Health, Mental Health, Ergonomics, Social Support, Lifestyle Factors

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ABSTRACT

The Information Technology (IT) industry has emerged as one of the most influential sectors driving economic growth, innovation, and digital transformation globally. Despite its numerous contributions, the occupational characteristics associated with IT work have introduced several health-related challenges. Prolonged computer usage, sedentary work patterns, excessive screen exposure, occupational stress, irregular sleep schedules, and limited physical activity have been identified as major factors affecting the health of IT professionals. Furthermore, increasing urbanization and dependence on apartment-based residential environments may indirectly contribute to reduced physical movement, diminished social interaction, and lifestyle-related health risks. This review examines the combined influence of occupational, lifestyle, and residential factors on the physical, psychological, and social well-being of IT professionals. Evidence from existing literature suggests a growing prevalence of musculoskeletal disorders, visual fatigue, metabolic abnormalities, sleep disturbances, psychological stress, and social isolation among technology workers. The review also discusses preventive and promotive strategies, including ergonomic interventions, regular physical activity, stress management, social engagement, and holistic health practices. Promoting a balanced lifestyle is essential for sustaining long-term health, productivity, and quality of life among IT professionals.

Citation: **Soharani, G.** ***2026.*** *"*Occupational, Lifestyle, and Residential Factors Influencing the Health of Information Technology Professionals: A Comprehensive Review". ***International Journal of Current Research, 18, (06), 37551-37555.***

INTRODUCTION

The rapid expansion of the Information Technology (IT) sector has significantly transformed contemporary work environments and lifestyle patterns. Advances in digital technologies have increased workplace efficiency, enabled remote working arrangements, and enhanced global connectivity. However, these developments have also altered traditional occupational practices, leading to increased screen time, prolonged sitting, reduced physical activity, and greater dependence on technology in both professional and personal settings. Information Technology professionals typically perform computer-intensive tasks that require sustained attention, repetitive movements, and extended periods of sedentary work. Simultaneously, urbanization has contributed to a growing preference for apartment-based residential living, characterized by limited physical space, increased automation, and reduced opportunities for outdoor activities. These occupational and environmental changes may collectively influence physical health, psychological well-being, and social functioning. The present review aims to examine the major occupational, lifestyle, and residential factors affecting the health of IT professionals and to discuss evidence-based strategies for promoting long-term well-being.

Sedentary Work and Musculoskeletal Health: Prolonged sitting represents one of the most common occupational exposures among IT professionals. Daily work activities often involve extended computer use, virtual meetings, software development, data analysis, and other screen-based tasks requiring minimal physical movement.

Extended sedentary behaviour has been associated with various musculoskeletal complaints, including:

- Neck pain and stiffness
- Shoulder discomfort
- Lower back pain
- Hip tightness
- Reduced flexibility of lower limb muscles
- Postural imbalances
- Decreased muscular endurance

Inadequate workstation design, poor ergonomic practices, and prolonged static postures may further exacerbate biomechanical stress on the musculoskeletal system. Repetitive

strain and sustained muscle loading can contribute to chronic pain syndromes and reduced functional capacity. Studies consistently demonstrate that ergonomic interventions, periodic movement breaks, stretching exercises, and posture correction strategies can significantly reduce the incidence and severity of work-related musculoskeletal disorders.

Visual Health and Digital Screen Exposure: Digital screens constitute the primary work interface for most IT professionals. Continuous visual engagement with computers, laptops, tablets, and mobile devices may contribute to a range of ocular symptoms collectively referred to as Computer Vision Syndrome (CVS) or Digital Eye Strain.

Common manifestations include

- Eye strain
- Dry eye symptoms
- Blurred vision
- Headaches
- Visual fatigue
- Reduced concentration

Several workplace factors influence the severity of these symptoms, including prolonged screen exposure, inadequate lighting, improper monitor positioning, and insufficient visual breaks. The implementation of preventive measures such as the 20–20–20 rule, optimization of screen ergonomics, maintenance of appropriate viewing distances, and conscious blinking practices has been shown to reduce visual discomfort and improve occupational performance.

Lifestyle Factors and Metabolic Health: The sedentary nature of IT occupations often contributes to reduced energy expenditure and increased susceptibility to lifestyle-related disorders. Long working hours may limit opportunities for regular exercise and encourage unhealthy dietary habits, including frequent consumption of processed foods and sugar-sweetened beverages.

Potential health consequences include

- Overweight and obesity
- Hypertension
- Type 2 diabetes mellitus
- Dyslipidemia
- Cardiovascular disease
- Metabolic syndrome

Research indicates that prolonged sedentary behaviour independently increases cardiometabolic risk, even among individuals who engage in occasional physical activity. Therefore, integrating regular exercise, active commuting, healthy dietary practices, and workplace wellness programs may help mitigate these risks.

Psychological Stress and Mental Well-Being

The IT profession is frequently characterized by high workloads, tight project deadlines, continuous technological adaptation, and performance-related pressures. These occupational demands may contribute to increased levels of psychological stress and emotional exhaustion.

Common psychological concerns among IT professionals include:

- Occupational stress
- Anxiety
- Burnout
- Depressive symptoms
- Emotional fatigue
- Reduced job satisfaction

Work-related stress may negatively affect productivity, interpersonal relationships, and overall quality of life. Furthermore, chronic stress has been associated with adverse physiological effects, including sleep disturbances, immune dysfunction, and cardiovascular risk. Organizational support, stress-management training, mindfulness practices, and healthy work-life balance strategies play important roles in promoting psychological resilience.

Sleep Disturbances and Circadian Disruption

Adequate sleep is essential for cognitive functioning, emotional regulation, and physical health. However, irregular work schedules, extended screen exposure, night shifts, and global project collaborations may disrupt normal sleep patterns among IT professionals.

Common sleep-related problems include:

- Delayed sleep onset
- Insufficient sleep duration
- Poor sleep quality
- Circadian rhythm disturbances
- Daytime fatigue

Exposure to blue light emitted by electronic devices may suppress melatonin secretion and interfere with normal sleep physiology. Sleep deprivation has been associated with impaired concentration, reduced productivity, increased accident risk, and long-term metabolic and cardiovascular complications.

Apartment Living and Health Implications: Urban housing patterns have increasingly shifted toward apartment-based living. Many IT professionals prefer apartment residences because of convenience, proximity to workplaces, enhanced security, and access to modern amenities. While apartment living offers several advantages, certain characteristics may influence health behaviours. These include:

- Limited indoor space for physical activity
- Reduced exposure to natural environments
- Dependence on elevators rather than stair use
- Increased indoor sedentary activities
- Reduced opportunities for neighbourhood interaction

In some residential settings, inadequate ventilation, restricted sunlight exposure, and limited recreational areas may further affect physical and psychological well-being. Nevertheless, the health impact of apartment living varies considerably depending on building design, environmental quality, and community engagement opportunities.

Social Connectedness and Community Health

Technological advancements have enabled remote communication and virtual collaboration; however, excessive reliance on digital interactions may reduce face-to-face social engagement. Social isolation and reduced community participation have been associated with poorer mental health outcomes and decreased life satisfaction.

Strong social relationships contribute to:

- **Emotional support**
- **Stress reduction**
- **Improved coping abilities**
- **Better mental health outcomes**
- **Enhanced quality of life**

Participation in family activities, community programs, recreational groups, and social gatherings may strengthen interpersonal relationships and promote overall well-being among IT professionals.

Preventive Strategies and Health Promotion

Addressing the multifactorial health challenges faced by IT professionals requires a comprehensive and integrated approach. Key recommendations include:

Occupational Interventions

- Ergonomically designed workstations
- Sit-stand desks where feasible
- Regular posture assessment
- Scheduled movement breaks

Lifestyle Modifications

- Daily physical exercise
- Balanced nutrition
- Weight management
- Reduced sedentary time

Mental Health Promotion

- Stress-management programs
- Mindfulness and relaxation techniques
- Counselling support services
- Work-life balance initiatives

Sleep Hygiene Practices

- Limiting screen exposure before bedtime
- Maintaining consistent sleep schedules
- Creating conducive sleep environments

Social and Community Engagement

- Family participation
- Community involvement
- Recreational activities
- Development of supportive social networks

CONCLUSION

The health of Information Technology professionals is influenced by a complex interaction of occupational demands, lifestyle behaviours, and residential environments. Prolonged sitting, excessive screen exposure, occupational stress, insufficient physical activity, disrupted sleep patterns, and reduced social interaction collectively contribute to various physical and psychological health concerns. Apartment-based urban living may further reinforce sedentary behaviours and limit opportunities for natural movement and community engagement. Promoting health among IT professionals requires a multidimensional approach incorporating ergonomic practices, physical activity, mental health support, healthy sleep habits, and social connectedness. Future research should focus on longitudinal investigations examining the long-term effects of occupational and residential factors on health outcomes and evaluating the effectiveness of targeted intervention strategies. Such efforts are essential for enhancing both employee well-being and organizational productivity in the rapidly evolving digital era. Health Implications of Occupational Stress, Apartment Living, and Sedentary Lifestyle among IT Professionals

Health Implications of Occupational Stress, Apartment Living, and Sedentary Lifestyle among IT Professionals

Occupational Stress and Mental Well-Being: Information Technology (IT) professionals operate in highly competitive and rapidly evolving work environments characterized by demanding schedules, strict deadlines, continuous technological advancements, and performance expectations. Such occupational demands often expose employees to prolonged periods of stress, which can adversely affect both psychological and physical well-being. Persistent occupational stress has been associated with mental exhaustion, anxiety, burnout syndrome, sleep disturbances, reduced job satisfaction, and emotional instability. Over time, chronic stress may impair interpersonal relationships, diminish work performance, and negatively influence overall quality of life. Therefore, organizations should prioritize the development of healthy workplace environments that support work–life balance, stress management, employee assistance programs, and psychological well-being.

Apartment Living and Urban Lifestyle: Rapid urbanization and the expansion of the IT sector have contributed to an increasing preference for apartment-based living among professionals. Apartments provide several advantages, including convenience, security, accessibility, and proximity to workplaces. However, this residential pattern may also present certain lifestyle challenges. Many IT professionals spend substantial portions of their day indoors due to remote work arrangements, digital entertainment, and online services. In some apartment settings, opportunities for natural ventilation, outdoor recreation, and spontaneous social interaction may be limited.

Potential concerns associated with apartment living include reduced physical activity, increased indoor confinement, dependence on artificial ventilation systems, limited neighborhood interactions, and greater reliance on digital technologies for daily tasks. These factors may indirectly

reinforce sedentary behaviors already prevalent among individuals engaged in computer-based occupations.

Technology, Convenience, and Physical Activity: Technological advancements have transformed daily living by increasing convenience and reducing physical effort. Household appliances such as washing machines, dishwashers, robotic vacuum cleaners, food delivery services, and online shopping platforms have significantly simplified routine activities. While these innovations improve efficiency and save time, excessive dependence on automation may contribute to reduced daily energy expenditure. When combined with sedentary occupational patterns, diminished physical activity may increase the risk of weight gain, reduced physical fitness, muscular weakness, poor posture, and metabolic dysfunction. Consequently, conscious efforts to incorporate regular movement and exercise into daily routines are essential for maintaining physical health and preventing lifestyle-related disorders.

Social Relationships and Emotional Resilience: Human health is profoundly influenced by the quality of social relationships. Family members, friends, neighbors, and colleagues serve as important sources of emotional support, helping individuals cope with occupational pressures and life challenges. Strong social connections have been consistently associated with improved mental health, lower stress levels, enhanced emotional resilience, and greater life satisfaction. Conversely, social isolation and loneliness may adversely affect psychological well-being and increase vulnerability to stress-related disorders. Maintaining regular contact with family, nurturing friendships, engaging in community activities, and fostering supportive workplace relationships can strengthen emotional resilience and contribute to overall well-being.

Lifestyle Diseases and Healthy Aging: The cumulative effects of sedentary behavior, unhealthy dietary habits, chronic stress, inadequate physical activity, and prolonged screen exposure may significantly increase the risk of lifestyle-related diseases. These health conditions often emerge during middle adulthood and may substantially impair quality of life and occupational productivity.

Common lifestyle-related disorders associated with sedentary living include:

- Obesity
- Type 2 Diabetes Mellitus
- Hypertension
- Dyslipidemia
- Cardiovascular Diseases
- Osteoarthritis
- Sleep Disorders

Given the long-term consequences of these conditions, early preventive interventions and health-promoting behaviors are crucial for ensuring healthy aging and sustained professional performance.

Holistic Approaches to Health Promotion: Health promotion among IT professionals should adopt a holistic perspective that addresses physical, psychological, social, and personal dimensions of well-being. Comprehensive wellness strategies may contribute significantly to disease prevention and quality of life enhancement.

Physical Health Promotion

Recommended practices include:

- Daily stretching exercises
- Periodic walking breaks during work hours
- Stair climbing whenever feasible
- Regular aerobic exercise
- Postural correction and ergonomic awareness

Mental Health Promotion

Strategies for maintaining psychological well-being include:

- Mindfulness practices
- Relaxation techniques
- Music-based relaxation interventions
- Effective time management
- Stress reduction and coping strategies

Social Well-Being Enhancement

Social health may be strengthened through:

- Active family engagement
- Participation in community activities
- Positive neighborly interactions
- Maintenance of supportive friendships

Personal and Spiritual Well-Being

For individuals who value spiritual practices, activities such as prayer, meditation, chanting, reflective thinking, and gratitude exercises may provide emotional comfort and psychological stability. These approaches should be viewed as complementary wellness practices rather than substitutes for evidence-based medical care when health concerns arise.

Recommendations

Based on the identified occupational and lifestyle challenges faced by IT professionals, the following recommendations are proposed:

- Promote ergonomically designed workstations to reduce musculoskeletal strain.
- Encourage regular movement breaks during working hours.
- Increase awareness regarding the health risks associated with prolonged sedentary behavior.
- Utilize apartment open spaces, gardens, and recreational areas for daily physical activity.
- Strengthen family bonds and social support systems.
- Implement workplace wellness and employee assistance programs.
- Promote mental health literacy and stress management interventions.
- Encourage healthy dietary habits and adequate sleep hygiene.
- Facilitate community engagement and social interaction among apartment residents.
- Support holistic and preventive approaches to long-term health and well-being.

Conclusion

A complex interplay of occupational demands, lifestyle practices, residential environments, and social relationships influences the health status of IT professionals. Prolonged sitting, excessive screen exposure, occupational stress, apartment-centered living, and reduced physical activity collectively contribute to an increased risk of physical and psychological health problems. Nevertheless, these risks can be substantially mitigated through ergonomic interventions, regular exercise, healthy social relationships, stress management practices, and balanced lifestyle choices. A comprehensive approach integrating occupational health principles, individual responsibility, and supportive social environments is essential for promoting healthy aging, enhanced well-being, and sustained productivity among IT professionals.

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