

Management Role in Taking Healthy Sitting Posture among Workers

ARTICLE INFO

Article Type
Original study

Authors

Parisa Hosseini-Koukamari^{1*}, *PhD* candidate

Mohtasham Ghaffari², *PhD*Sedigheh Sadat Tavafian³, *PhD*Ali Ramezankhani⁴, *PhD*

How to cite this article

Hosseini-Koukamari P., Ghaffari M., Tavafian SS., Ramezankhani A. Management Role in Taking Healthy Sitting Posture among Workers. IJMPP. 2020; 5(1): 287-292.

¹School of Public Health and Safety, Shahid Beheshti University of Medical Sciences, Tehran, Iran. ²Environmental and Occupational Hazards Control Research Center, School of Public Health and Safety, Shahid Beheshti University of Medical Sciences, Tehran, Iran. ³Department of Health Education and Health Promotion, Faculty of Medical Sciences, Tarbiat Modares University. ⁴School of Public Health and Safety, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

* Correspondence

Address: Department of Public Health, School of Public Health and Safety, Shahid Beheshti University of Medical Sciences, Tehran, Iran. Tel: +982122432040-41

Tel: +982122432040-4 **Fax:** +982122432037 **P.O.Box:** 1983535511

Email: Aranezankhani@sbmu.ac.ir

Article History

Received: May 19, 2020 Accepted: May 30, 2020 ePublished: Jun 15, 2020

ABSTRACT

Aim: In recent years, there has been an increasing interest in workplace health-related problems. The issue of Musculo Skeletal Disorders (MSD) has received considerable critical attention. Taking healthy posture has a pivotal role in prevention of MSD. In this study the management roles in taking proper sitting posture in workplace were assessed. Method and Istruments: A Semi-structured interview according to purposive sampling was conducted with a convenience sample of office workers working in Shahid Beheshti University of Medical Sciences (SBUS). Interviews were recorded and transcribed into MAXQDA software version. Content analysis was used to establish the presence of certain themes and concepts within the text. Findings: This study revealed that there are four determinants as management role related to taking healthy sitting behavior among workers in workplaces. These determinants including: role modeling, setting policy, management support and manager healthy mindset. **Conclusions**: The identified factors provide organizational managers with a list of factors by which they can encourage their employees to use healthy postures in the workplace leading to significant reductions in job absenteeism and insurance fees associated with health problems.

Keywords: Healthy Sitting Posture, Office Worker, Management, Qualitative Study.

Introduction

Worksite is an important public health setting due to the fact the majority of adults spend much amounts of their daly time at work, so the working environment has an essential impact on the employees' health Addressing both the individual environment and health behavior are crucial to producing profits in worker health^[1]. Reaching a healthful workplace not only improved health for individuals but also promote health and well-being caused economic advantages companies^[2], because individuals spend the majority of their waking hours in their workplace^[3].

Investigating health of this group of people may be very vital. Meantime studies revealed that, personnel spend

extra than eight hours per day in sitting position in their working place^[4].The lengthy sitting time may also cause health related problem for the personnel^[5, 6]. Musculoskeletal Disorders (MSD) may be the most common disease among all job-related complications in modern workforce [7]. The MSD are defined as muscular pain or injuries to the human support system [8, 9]. Improper posture, meanwhile acts as a key factor leading to MSD [10-13]. Poor sitting posture in the workplace (e.g., leaning forward cause upper limb and neck pain), not only influences personal life and productivity of a worker but also it causes significant burdens on health system [14]. While we are researching the determinants of poor sitting posture, we want to look at both

individual and organizational elements to pick out perceived behavioral determinants and obstacles to a proper sitting posture in the workplace before we create effective interventions.

In creating an environment in which workers can succeed and experience wellbeing, managers play an important role^[15].Organizational management has been connected to a variety of outcomes from employee safety, health and wellbeing consisting of organizational safety environment^[16], work-related well-being ^[15, 17], occupational accidents^[17, 18] and health habits^[19, 20].Therefore, , one question that needs to be asked is which management determinants meettaking a safe sitting posture forworkers . This study set out to investigate the role of management in employees' healthy sitting behavior.

Method and Instruments

Between July 2018 and May 2019, this qualitative study was conducted to identify management role in taking proper sitting posture among office workers. The interviewees were done among college workers with mean age 42 years old. The requirement for joining the study were the ability to communicate in Farsi language and the willingness to share information.

Furthermore, the incusion criteria for the office worker wereas employed in the worksite for at least 2 years, using the computer to perform their duties, and belonging to one of the offices of Shahid Beheshti University of Medical Sciences (SBUS).

Exclusion criteria included as working on other soffice and not inclined to keep the interview on the time of the interview.

Main researcher approached each prospective participant to clarify priorities and interview question and if the participant agreed to participate in the research, a

face-to face interview with him/her was conducted.

Team members with extensive experience in health services research collaboratively formed topic interview guide that facilitated semi structured interview and promoted more detailed discussion by the participants. The researcher conducted face-to face interview at times that were most convenient for the participants. Two employees at the SBUMS were interviewed to pilot the interview schedule and process. Interviews took about 18-30 minutes to be completed. Key questions from all participants were about management role in taking a healthy sitting posture at their workplace.

Data analysis

Results were collected using MAXQUDA version 10 software to classify determinants of sate sitting posture among workers All interviews were conducted, recorded, transcribed verbatim, reviewed, coded, and immediately analyzed by the first researcher. According content analysis process, at first, each interview was read several times carefully to gain a deep understanding of the content. Later, important statements were underlined to identify initial codes or meaning units existing in the interview text. Data collection process was continued until data saturation was obtained. When no new code was produced in the last three interviews, data saturation was achieved and data collection was stopped. Moreover, the content and description of themes were discussed with two other researchers and consensus was reached on the finalized themes and descriptions of the theme content.

Findings

Of the 30 office workers who were invited to the interview, 25 approved and 5 workers refused to participate in the study because they did not want their voices to be recorded

289 kanani kandeh S.

because of their job positions.

We interviewed the remaining subjects. Our study revealed that there are four determinants linked to taking a healthy sitting posture that was considered as management factor. These determinants are as following:

Manager healthy mindset

Employee states" I suppose health isn't a critical concern as supervisor perspective, doing duty is more crucial than workers health conditions".

Another worker points out that, "I think the manager is responsible for the existence of a healthy atmosphere in the workplace, so he should also have planned health-based courses for us in the office in this regard among organizational courses." (Interview No:3). Another point is that "if the manager sees us as a vulnerable resource, we can easily ask for everything that is necessary for our health." (Interview No:5).

Manager as role model in organization

As employee argues: "supervisor as a person who is model for us, haven't any right posture during working hour". (Interview No:3).

Set healthy policy in organization

An expert's statements, "manager can efficiently set organizational healthy rules, health policy can foster worker well-being "(Interview No:10).

Another employee notes that "in my opinion, the allocation of resources for health programs is a key factor in boosting healthy behavior, for example in our company, we have held three health promotion programs related to physical activity, nutrition and stress that all employees have participated in such programs " (Interview No:4).

Manager support

On participant in this regard stated: "we don't obtain any support from the company

for doing this behavior that is came returned to management in our company" (Interview No:8)

Discussion

The purpose of current qualitative research was to identify management role to healthy sitting posture among workers. Previous researchers have identified various factors that have a critical impact on employee health, such as individual variables, task-related factors and aspects of the immediate work context, such as management behavior [21-23]

Previous evidences show that health-promoting management is principal elements for worker health. [24, 25]. Health-promoting leadership activities also paying attention to subordinate stress, encouraging subordinates to take part in health promotion activities at the workplace, and acting as a role model for health.

As role modeling, it is important to influence the cognitions and actions of others ^[26]. Managers may encourage the health-related knowledge and behavior of workers by modeling, enhancing and directing these behaviors ^[27].

Managers usually are chosen as role models because of the emotional attractiveness that comes with the power, experience, and prestige of management positions. Management attitudes often form norms and represent values at work. However, the previous study revealed that managers do not even have to be aware of their role modeling; they unconsciously imitate behaviors in companies daily [26].

Since managers 'health habits are typically measurable by others, health awareness as a primarily cognitive phenomenon can be experienced by communication as managers may be able to talk about their health-related thoughts and experiences.

According to the theory of social learning,

learning experiences related to role modeling could be motivated by three rules (26). First, individuals obtain reinforcement for crucial behaviors through role modeling. If managers have been aware of their health, it demonstrates to staff that a high-quality attitude closer to health issues is welcome at work.

Bandura (1986) proposed that several reminders support to reveal new behaviors. As a result, managers may support employees' health awareness via being a regular cue for health-related self-regulation.

Third, employees may also gain new insights by observing the health awareness of their managers, developing new attitudes and learning new behaviors. In addition, when employees observe the health awareness of their managers resulting in better health, which is called symbolic experience, according to the Social Learning Theory (Bandura, 1986), employees maybe even be more motivated to attend and reflect on their health.

A health mindset involves general knowledge about health and attention and sensitivity toward employees stress and health signals ^[24]. Kaluza et al. noted that health mindsetact as mediator between health-promoting leadership and organizational health climate ^[28]. Managers are also creating an organizational culture that promotes wellness by directly endorsing programs and showing visible support for the health of employees ^[29].

Organizational climate can also have an indirect impact on the health of employees by reducing hazards, risks or demands in addition to promoting health and safety through the establishment of safety procedures [30] As proposed by Deloy and colleagues, management support is typical as a crucial prerequisite for the success of health promotion programs in the workplace [31, 32]. Even healthy people 2010

refers to "comprehensive programs" while setting targets for health promotion at the workplace. Supporting social and physical environments are considered to be essential aspects of comprehensive programs within this framework [33].

The setting of health policy was another factor. This is in good agreement with existed evidence that clarified that managers are responsible for the established programs and policies and the allocation of resources to support the implementation of programs and policies [34].

Conclusion

Managers play an important role in employee health (a) by providing resources and making requests.In other words, management is often concerned with the well-being of employees because it will lead to outcomes that are important to the organization, including lower health care costs, reduced absenteeism/ turnover, and increased productivity. The health of workers, which defined generally, is therefore important for both individuals and organizations, and it can be argued that it is important for society as a whole to influence the health of workers on national health care costs, the level of productivity and the quality of life of their citizens[35].

Acknowledgements: This study is a part of a Ph.D. dissertation that was approved by the SBUMS ethical committee. The authors would like to thank all of the study participants.

Ethical Permission: Ethical approval was obtained from Ethics Committee of the Shahid Beheshti University of Medical Sciences (Ethics Code of IR.SBMU.PHNS. REC.1397.038). Written informed consent was obtained from individuals who participated in this study.

291 kanani kandeh S.

Author's contributions: PH, AR, MG, SST conceptualized and designed the project. PH, AR led analysis of the transcripts, and developed the manuscript. MG and SST performed the critical review. All authors reviewed and approved the final version. **Conflict of Interest**: The authors declare that they have no competing interests.

Funding: This study is funded by a research grant from the Shahid Beheshti University of Medical Sciences. The funding body did not have any role in the design of the study and collection, analysis, and interpretation of data and in manuscript writing as well.

References

- Linnan L, Bowling M, Childress J, Lindsay G, Blakey C, Pronk S, et al. Results of the 2004 national worksite health promotion survey. Am J Public Health. 2008;98(8):1503.
- 2. Black CM. Working for a healthier tomorrow: Dame Carol Black's review of the health of Britain's working age population: The Stationery Office; 2008.
- 3. Ni Mhurchu C, Aston LM, Jebb SA. Effects of worksite health promotion interventions on employee diets: a systematic review. BMC Public Health. 2010;10(1):62.
- 4. Kwon Y, Kim A, Heo J, Jeon H, Choi E, Eoma G. The effect of sitting posture on the loads at cervicothoracic and lumbosacral joints. Technol Health Care. 2018;26:409–18.
- 5. van Uffelen JG, Wong J, Chau JY, et al. Occupational sitting and health risks:a systematic review. Am J Prev Med. 2010;39:379–88.
- 6. Patel AV, Bernstein L, Deka A, et al. Leisure time spent sitting in relation to total mortality in a prospective cohort of US adults. Am J Epidemiol. 2010;172:419–29.
- 7. Yasobant S, Rajkumar P. Work-related musculoskeletal disorders among health care professionals: A cross-sectional assessment of risk factors in a tertiary hospital, India. Indian J Occup Environ Med. 2014;18(2):75–81.
- 8. Daneshmandi H, Choobineh A, Ghaem H, Karimi M. Adverse Effects of Prolonged Sitting Behavior on the General Health of Office Workers. J Lifestyle Med. 2017 7(2):69-75.
- Ng A, Hayes MJ, Polster A. Musculoskeletal Disorders and Working Posture among Dental and Oral Health Students. Healthcare (Basel). 2016

- Ma; 4(1): 13. doi: 10.3390/healthcare4010013.
- 10. Ghanbary A, Habibi E. Evaluation of Musculoskeletal disorders among computer Isfahan. Iran J Health Environ. 2015;2(3):330-4.
- Mohammadi Zeydi, Heydarnia A, Niknami SH. Predicting Factors of Worker Behavior for Proper Working Posture Based on Planed Behavior Theory. Armaghane Danesh 2008, 13(3): 111-122.
- 12. Falaki H, Akbari H, Hannani M, Motalebi M. Prevalence and postural risk factors associated with musculoskeletal disorders among medical laboratory personnel in Kashan in . ioh 2016, 12(6): 58-68. 2015;12(6).
- 13. Habibi E, Soury Sh, Abolghasemian M. The effect of three ergonomics intervention on work-related posture and musculoskeletal disorders in office workers (computer users) Gas Company of Isfahan. J Health Syst Res 2013;9(10):1041-9.
- 14. Muppavram S, Patel N, Nadeem M. Posture Alert. IEEE Region Ten Symposium2018.
- 15. Skakon J, Nielsen K, Borg V, Guzman J. Are leaders' well-being, behaviours and style associated with the affective well-being of their employees? A systematic review of three decades of research. Work and Stress 24(2):107-139.
- 16. Zohar D. Modifying supervisory practices to improve subunit safety: a leadership-based intervention model. J Appl Psychol. 2002; 87(1):156-63.
- 17. Kuoppala J, Lamminpaa A Fau Liira J, Liira J Fau Vainio H, Vainio H. Leadership, job wellbeing, and health effects--a systematic review and a meta-analysis. J Occup Environ Med. 2008; 50(8):904-15.
- 18. Kelloway EK, Mullen J Fau Francis L, Francis L. Divergent effects of transformational and passive leadership on employee safety. J Occup Health Psychol. 2006;11(1):76-86.
- 19. Bamberger PA, Bacharach SB. Abusive supervision and subordinate problem drinking: Taking resistance, stress and subordinate personality into account. Human Relations. 2006;59(6):723-52.
- 20. Whiteman JA, Snyder Da Fau Ragland JJ, Ragland JJ. The value of leadership in implementing and maintaining a successful health promotion program in the Naval Surface Force, U.S. Pacific Fleet. Am J Health Promot. 2001;15(6):437-40.
- 21. Demerouti E, Bakker AB, Nachreiner F, Schaufeli WB. The job demands-resources model of burnout. J Appl Psychol. 2001;86(3):499-512.
- 22. Montano D, Reeske A, Franke F, Hüffmeier J. Leadership, followers' mental health and job performance in organizations: A comprehensive meta-analysis from an occupational health perspective. Journal of Organizational Behavior.

- 2017;38(3):327-50.
- 23. Strickhouser JA-O, Zell E, Krizan Z. Does personality predict health and well-being? A metasynthesis.Health Psychol. 2017;36(8):797-810.
- 24. Franke F, Felfe J, Pundt A. The Impact of Health-Oriented Leadership on Follower Health: Development and Test of a New Instrument Measuring Health-Promoting Leadership. Zeitschrift für Personalforschung. 2014; 28 (1-2):139-161.
- 25. Zweber ZM, Henning RA, Magley VJ. A practical scale for Multi-Faceted Organizational Health Climate Assessment. Journal of Occupational Health.2016; Psychology, 21(2), 250–259.
- 26. Kranabetter C, Niessen C. Managers as role models for health: Moderators of the relationship of transformational leadership with employee exhaustion and cynicism. J Occup Health Psychol. 2017;22(4):492-502.
- 27. Bandura A, Walters RH. Social learning theory: Prentice-hall Englewood Cliffs, NJ; 1977.
- 28. Kaluza AJ, Schuh SC, Kern M, Xin K, Van Dick R, editors. The Importance of Organizational Health Climate for Employee Health: A Multilevel Cascading Model. Academy of Management Annual Meeting Proceedings 2018(1):11709.
- 29. Passey DG, Brown MC, Hammerback K, Harris

- JR, Hannon PA. Managers' support for employee wellness programs: An integrative review. Am J Health Promot. 2018;32(8):1789-99.
- 30. Loh MY, Idris MA, Dormann C, Muhamad H. Organisational climate and employee health outcomes: A systematic review. Safety Science. 2019;118:442-52.
- 31. DeJoy DM, Wilson MG. Organizational health promotion: broadening the horizon of workplace health promotion. Am J Health Promot. 2003;17(5):337-41.
- 32. DeJoy DM, Bowen HM, Baker KM, Bynum BH, Wilson MG, Goetzel RZ, et al., Management Support and Worksite Health Promotion Program Effectiveness. Ergon Health Aspects workComp.2009;Proceeding, PP 13-22.. doi:10.1007/978-3-642-02731-4_2.
- 33. Della LJ, DeJoy DM, Goetzel RZ, Ozminkowski RJ, Wilson MG. Assessing management support for worksite health promotion: psychometric analysis of the leading by example (LBE) instrument. Am J Health Promot. 2008;22(5):359-67.
- 34. Goetzel RZ, Henke RM, Tabrizi M, Pelletier KR, Loeppke R, Ballard DW, et al. Do Workplace Health Promotion (Wellness) Programs Work? JOEM. 2014;56(9):927-34.
- 35. Beehr TA. Interventions in occupational health psychology. J Occup Health Psychol. 2019;24(1):1.