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Exploring the Stresses and Health of the Nurses in the Psychiatric Hospitals in Eastern Taiwan: Does the Leisure Destination Location Help Nurses Cope with Stress?

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Abstract

Background: It has been suggested that nurses who care for the mentally ill patients are exposed to increased stress and have poorer health status. Leisure and tourism have been proposed to be effective sources of stress coping. The purpose of this research was to investigate stress and health of nurses working in the psychiatric hospitals in the eastern Taiwan, which was known for its excellent tourism resources.

Methods: Samples were purposively selected from the nursing staffs of two major psychiatry hospitals in the region. Overall, 333 valid responses were gathered using Short Form-36 (SF-36) for health status and the Nursing Staffs Pressure Scale measuring job stressors.

Results: The perceived job stress varied significantly by age and job position. The perceived health status varied significantly by services, seniorities, marital, and numbers of children. The job stress correlated negatively with the health status. Family obligation and person-environment fit may explain why nurses in this particular area experience higher stress and poorer health status compared to their colleagues in the west.

Conclusion: Although nurses in the eastern Taiwan receive relatively attractive compensation package and enjoy social status in an economically less developed area with abundant tourism resources, they experience higher stress and worse health. Nursing professionals with higher socio-economic status are in fact inversely exposed to greater stress, of which detrimental to their levels of person-environment fit. Since the leisure and tourism resources may not be effective alternatives for coping with stress and the family obligation has a strong association with the poor health status, a supportive system is apparently needed.

Keywords: Psychiatric nurse; Job stress; Quality of life; Family obligation; Person-environment fit

Introduction

Nurses are inevitably exposed to an extremely stressful work environment [1-4], which in turn causes health risks, turnover, and accordingly the productivity loss to the hospitals [1]. Taiwan launched a new hospital accreditation system in 2007, which requires higher levels of caring procedures and excessive administrative works. Recent studies have shown that stress causes many health problems, such as headache, back pain, joint pain, anxiety, hypertension, and some of other somatic symptoms or cardiovascular problems [3-7]. These influence the nurses' morale and hospitals' service quality and productivity [4-11].

The perceptions of stress may vary across different demographic characteristics, including job position, seniority, experience, nature of the work (unit, shift, etc.), age, education, marital status [2-5]. Taking vacation and engaging in leisure activities be perceived as the stress coping strategies that ease the negative effects of stress [9,10,12]. Would nurses who work in a hospital located in a tourism destination that offers plenty of leisure resources experience less stress and better health? To our best knowledge, few studies, if any, have specifically addressed stress among psychiatric nurses in this kind of context [4,11,12].

Scientific studies on stress attracted scholars from a wide variety of disciplines; yet, mainstream studies focus on the interaction of personal reactions with the job environment [2,8,9,11], suggesting that the "fit" between someone's personal qualities and his/her job environment may determine the magnitude of job stress. The higher the fit between the person and his/her work environment (PE fit), the lower the possibility and magnitude of job stress [13,14]. We may infer that if the individual works in a place where the members are highly similar to each other in

terms of professional knowledge, training, and capability and, in many cases, offer supplementary hospital services [12], then the congruence between individual professional capabilities and job environments tends to be high [15]. Ironically, job stress, as perceived by the nurses in hospitals was high, and turnover rate increased accordingly [11].

As Schneider noted, the PE fit should include at least the national culture in the relation between the individual's PE fit and affective outcome [15,16]. Previous studies have generally agreed that western culture is more individually oriented, wherein an individual is separate from the environment, whereas the Confucian Oriental model is relational and "selfhood- oriented", wherein an individual is relational, behaves in response to others, and is self-cultivating in response to the social environment [13,15]. Since an individual's job stress is aligned with her or his subjective perception of PE fit, and to take the regional subculture may exist in the Easter Taiwan, we further explore how the P-E fit in this particular region affect the perceived stress and health.

Two hypotheses were then developed based on the literature review, as discussed in the introduction section.

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H1: Perceived stress levels and health status will differ significantly by respondents' demographic and job characteristics.

H2: The perceived health status is negatively correlated with the perceived stress.

Materials and Methods

Materials

The sample includes nurses from two major psychiatric teaching hospitals in the city of Yuli in Eastern Taiwan with scattered population and abundant natural sightseeing resources. Samples included nurses working in outpatient, inpatient, and acute departments, regardless of gender or ethnicity. Nurses included are registered and enrolled nurses, nursing officers, nurse practitioners. Nurses working on a part-time basis were excluded. One hospital (HS) is state owned, and it admits psychiatric patients from the entire state. The other hospital (HV) was established by the Veteran Affairs Commission for veterans, and it is open to veterans as well as the public with psychiatric problems. With the permission of the hospital directors, all questionnaires were distributed and collected through nurse supervisors of respective hospitals. To comply with the code of ethics of research, an informed consent form was printed on the first page of the questionnaire. It contained the information about the research and advised the respondents that they may reject or withdraw from the study at any time with their own will. In HS, two hundred (200) questionnaires out of which 155 contained valid responses for a response rate of 77.5%. In HV, two hundred and fifty (250) were distributed and 176 contained valid responses for a response rate of 71.2%. The grand total response rate was 74.0% (333/450). A chi-square goodness-of-test analysis result showed that the observations did not differ by gender (X²=0.678 < 3.84, df=1, α =0.05) in the sample of enrolled nurses (male 1.80% and female 98.20%, Taiwan Union of Nurse Association, 2014) [17].

Methods

This cross-sectional research adopted structured questionnaire to collect the data for analysis. A questionnaire containing two scales was used to collect the relevant data as well as demographic and job characteristics. Chinese version of the Nurse Stress Checklist was used to measure stress levels. It has been found to have acceptable reliability and validity in Taiwan [18,19]. The current research adopted the Chinese version of Short Form-36 (SF-36) to test the respondents' perceived health status. It has been found to be reliable and valid [20,21]. The data gathered were analyzed using statistical techniques of descriptive analysis, t-test, one-way ANOVA, and Pearson's Correlation using SPSS for Windows 17.0.

Results

Sample description

Of the 333 respondents, 4 (1.2 %) were male, as shown in Table 1. Most respondents were 26-30 years of age. Furthermore, 23.78% worked at the state-owned and 23.03% at the veteran hospital. Considering both hospitals, around 93% of the respondents of the current research were 40 years old or younger. Nearly 100% of the respondents were well educated with at least an associate degree, and over 60% of the respondents had a bachelor or higher degree. More than half of the nurses in these hospitals were single, 91 (58.71%) in HS and 93 (53.37%) in HV.

Most respondents earned 600 thousands NTD or lower (around 20,000 USD) per year. Among them, senior nurses were generally paid

more than 700 K per annum. This salary is considered high in the Eastern Taiwan and is sufficient to lead a good life in Eastern Taiwan, where the average income can be as low as 300 K in a less developed region. HS staffs have a higher proportion of junior employees, even though it was established more than 40 years ago while HV was established less than 20 years ago. There is no evidence to suggest that nurses in HS are exposed to higher stress compared to HV.

Description of stress and health

Although nurses in HV experienced higher stress compared to those in HS, these levels of stress were not severe, as shown in Table 2. The average stress score for the entire sample of respondents was 4.01 (s.d.=2.24) on a 9-point (0-8) scale, with average score of 3.83 (2.19) for HV and average score of 4.16 (2.21) for HS. "Personal response" seems to be the major contribution to stress among the nurses of both hospitals, with average scores of 4.29(1.96) for HS and 4.43 (1.61) for HV. "Feel tired" is the most notable item with the mode at "7" for HS and "8" for HV. The least stress nurses perceived in this research is in the dimension of competence, with a grand total average of 3.27 (1.34). This may imply that the respondents were well trained and skillful. Interestingly, nurses in HS obtained the lowest score of 3.36 (1.72) in the dimension of work concerns. This dimension comprises factors in the patient caring area, such as interactions (with physicians, patients, and other colleagues), job content, and time allocation. It is interesting to note that time pressure is the major contributor to stress among both hospitals' nurses. "Physical function" is the highest scoring dimension of the eight dimensions for nurses at case hospitals, with HS obtaining 80.87 points on a 100 points scale and HV obtaining 81.32 and with the grand average of 81.11. A higher score denotes a superior outcome from health status self-assessment. The second dimension is the issue of bodily pain. The moderate scores on this item imply that nurses do not experience body pain problems. Ironically, nurses assessed their health status as low in terms of vitality (45.45), general health (49.04), and mental health (53.91). It has to be noted that these nurses are well trained and experienced in taking care of mentally ill patients. A worried expert might find it difficult to provide satisfactory quality of care.

Demographic factors in stress and health status

Subsequently, we examined differences in stress and health status in terms of demographic factors, such as age, education, tenure, marital status, number of children, annual income, and job factors, such as hospitals, units, and work shift as independent variables. We performed independent t-test and one-way ANOVA to test the differences among independent variables in perceived health and stress levels, respectively. As Table 3 shows, the hospital did not differentiate stress and health status, as t-score was not statistically significant at p<0.05.

The results further showed that stress levels varied as a function of the respondents' seniority, unit, work shift, marital status, and number of children. Perceived health status differs according to the person's education and seniority. Hypothesis one was therefore supported.

Link stress and health status

The possible relationships between stress and health status form the core of the research. Perceived health and associated dimensions were the dependent variables, and the job stress and associated dimensions were the independent variables. The test results of Pearson's correlations are shown in Table 4. As we predicted, job stress correlated negatively with health status (r=-0.406). The fact that excess stress is harmful to people's health also applies to the nurses in a psychiatric hospital. Most health dimensions correlated also highly with the self-assessed

health status, except for mental health. Interestingly, mental health had the weakest and positive correlation with health status, which seems strange in a psychiatric hospital whose employees are supposed to be mentally strong. The personal responses to factor stress had high negative correlation with several dimensions of health status, for example, perceived health (r=-0.696), vitality (r=-0.679), and emotional limitation (r=-0.511). This dimension represents global physical and psychological manifestations and has much stronger relationships with all aspects of health status compared to other dimensions. As shown in Table 4, hypothesis two of the current research was thus supported. It is interesting to note that professional competence (PC) did not correlate significantly with "unable to complete assignment (PP)," "personal responses (PR),", and "work concerns (PW)" of the stress dimensions. Moreover, it did not correlate significantly with dimensions of "physical function", "bodily pain", "physical limitation", "general health", and "mental health" of health status. This seems to imply that nurses may perceive ill health when they are overloaded with assignments or have an unfavorable job allocation. Alternatively, nurses who perceived higher job stress and worse health status may have overestimated their ability to balance job-related and personal affairs. Less experienced nurses perceived greater stress, as Table 2 indicates. In other words, nurses in the psychiatric hospitals, especially younger ones, are somewhat naïve.

Discussion

Greater stress and poorer health among nurses in psychiatric hospitals

The levels of perceived stress were 3.72 and 3.88 for HS and HV hospitals in this research. Compared to previous studies, Lee reported the mean stress level of 3.8 [5] while Tang et al. the mean stress level of 3.44 [4]. Unlike previous studies in Taiwan, which were conducted in medical centers in the western part of Taiwan, this study was conducted with samples from psychiatric hospitals in the eastern part of the country. Test results indicated that nurses in these smaller and specialized hospitals perceive similar or higher stress levels compared to nurses in the medical centers [4,5]. Regardless of the size of a hospital, administrative works and standards required by the New Teaching Hospital Accreditation of Taiwan are the same for all accredited levels of hospitals. In the meantime, hospitals in Taiwan are forced to compete with the limited reimbursements from the National Health Insurance Bureau (NHIB), decreasing the number of nursing staff. As a result, nurses need to share more administrative works and take on greater patient care obligations than before. The average score on health status in this research was 60.16, much lower compared to those reported in previous studies. For example, a National Health Interview Survey

Hospital	State H		Vete	eran H	Hospital	St	ate H	Veteran H		
Variables	n	%	n	%	Variables	n	%	n	%	
Gender					Tenure					
F	153	98.71%	176	98.88%	3 yrs-	77	43.26%	62	34.83%	
М	2	1.29%	2	1.12%	4-6 yrs	25	14.04%	47	26.40%	
Age					7-10 yrs	27	15.17%	41	23.03%	
25-	35	22.58%	39	21.91%	11+ yrs	26	15.60%	28	15.73%	
26-30	37	23.87%	41	23.03%	Marital					
31-35	31	20.00%	31	17.42%	Single	91	58.71%	93	52.25%	
36-40	27	17.42%	35	19.66%	Married	57	36.77%	77	43.26%	
41+	25	16.13%	32	17.98%	others*	7	4.52%	8	4.49%	
Education					Annual income					
Vocational	3	1.94%	0	0.00%	600 K-	92	59.35%	95	53.37%	
College	53	34.19%	77	43.26%	610-700 K	29	18.71%	23	12.92%	
Bachelor	79	50.97%	96	53.93%	710-800 K	15	9.68%	31	17.42%	
Master+	20	12.90%	5	2.81%	810 K+	19	12.29%	29	16.29%	

Table 1: Demographic description 'Divorced and widowed

04	State	State		Veteran		Difference			
Stresses	Mean	S.D.	Mean	S.D.	A-B	t-test	Mean	S.D.	
Personal work(PP)	3.83	2.19	4.16	2.21	-0.33	0.50	4.01	2.24	
Competence(PC)	3.40	1.36	3.15	1.34	0.25	0.28	3.27	1.34	
Personal Response(PR)	4.29	1.96	4.43	1.61	-0.14	0.33	4.36	1.79	
Work concerns(PW)	3.36	1.72	3.78	1.35	-0.42	0.78	3.58	1.50	
Job stress(PJ)	3.72	1.81	3.88	1.63	-0.16	0.47	3.81	1.72	
Physical function (PF)	80.87	19.63	81.32	18.02	-0.45	0.15	81.11	18.89	
2. Role limitations, physical (RP)	61.56	11.58	61.39	12.27	0.17	0.79	61.47	12.01	
3. Bodily pain (BP)	66.67	21.23	67.86	17.65	-1.19	0.50	67.31	19.26	
4. General health (GH)	50.39	21.56	47.86	16.68	2.53	0.39	49.04	19.02	
5. Vitality (VT)	47.89	18.92	43.33	15.27	4.56	0.32	45.45	16.89	
Social function (SF)	65.24	22.31	56.55	18.89	8.69	0.19	60.59	20.51	
7. Role limitations, emotion (RE)	67.63	30.25	57.84	30.56	9.79	0.39	62.40	30.61	
8. Mental health (MH)	54.56	17.28	53.35	15.12	1.21	0.09	53.91	16.17	
Health status	58.10	20.35	58.69	18.06	-0.59	0.35	60.16	19.17	

Table 2: Mean, standard deviations, and differences between hospitals N=333 (HS=155; HV=178)

	Variable		St	ress	Health status				
		N	Mean	S.D.	t/F	Mean	S.D.	t/F	
Hospitals	HS	155	3.84	1.21	-0.68	55.65	17.69	1.51	
	HV	178	3.92	1.06		52.69	14.67		
Age	25 -	74	3.91	1.02	1.66	58.01	16.98	1.36	
	26-30	78	3.98	1.15		53.12	17.05		
	31-35	62	3.79	1.13		50.28	17.06		
	36-40	62	3.84	1.12		51.25	17.85		
	41 +	57	3.18	1.32		56.86	15.83		
Education	Vocational	3	4.22	1.14	1.10	50.01	24.49	3.218*	
	College	130	3.87	0.97		48.66	17.33		
	University	175	3.78	1.17		55.65	17.12		
	Master	25	3.05	1.03		65.57	12.04		
Tenure	3-	139	3.86	1.10	3.137 ⁻	57.15	16.56	3.286*	
	4~6	72	4.01	1.26		51.28	17.43		
	7~10	68	3.96	0.98		49.95	17.08		
	11+	54	3.32	1.09		50.18	17.16		
Units	Acute	142	3.88	0.87	4.745***	52.75	18.04	1.93	
	Chronic	96	4.25	1.23		51.04	15.83		
	LTCa	95	3.36	1.53		60.25	17.72		
Shift	Day	143	3.62	1.15	2.979 ⁺	53.69	16.58	2.21	
	Night	64	4.16	1.23		49.16	17.93		
	Rotate	126	3.93	1.17		52.27	17.68		
Marital	Single	184	4.09	1.10	7.861**	51.86	18.33	2.51	
	Married	134	3.46	1.20		58.35	17.52		
	others	15	3.98	0.56		67.53	14.01		
Children	0	210	4.08	1.10	16.023**	52.01	17.56	2.74	
	1	54	3.69	1.38		61.42	17.63		
	2	48	3.63	1.26		55.41	16.31		
	3 +	21	4.15	1.40		52.25	18.86		
early salary	60 K-	187	3.94	1.13	1.29	54.21	16.68	0.22	
	61-70 K	52	3.71	1.35		52.26	21.23		
	71-80 K	48	3.84	1.28		52.33	18.71		
	81K+	46	3.49	0.90		50.89	14.63		

Table 3: Stress and health status by demographic characteristics a LTC, Long-term care, 'p<0.05 "p<0.01, ""p<0.001

reported average scores of 70.7 for men and 75.2 for women [22]; Lee et al. reported an average score of 73.35 in a health-related quality of life study [23]; and Wang et al. indicated a slightly lower health score of 65.85 [24]. Given that the score of 70 indicates a better health status [22], nearly 80 percent of nurses in these psychiatric hospitals are in poor health. This is definitely a risky factor for the quality of health service provided to patients and for the associated costs to the hospitals; therefore, it deserves special attention.

The current research shows that nurses are not significantly different in stress and health status in terms of demographic factors and job characteristics. This means no matter what kind of personal characteristics and job nature will be, the nurses in psychiatric hospitals indifferently perceived stronger stress and poorer health status.

Avoidance approach may not work to cope with stress

The hospitals selected for this study were situated in an excellent tourism destination. Plenty of natural resources and leisure facilities are in the neighborhood and are highly accessible in terms of geographic distance and purchasing power. Compared to those who work in the hospitals in the western metropolitans, nurses in the case hospitals are in a superior position of easy access to utilize tourism resources to

cope with stress. In fact, the current research shows that nurses in the hospitals located in the eastern part of the country experience greater stress and poorer health compared to their counterparts in the west, as the previous section has discussed. Despite that the family obligation may also contribute additional effects to greater stress and poorer health, as the next paragraph will discuss, the avoidance strategy, such as escaping to the tourism activities, may not bring sustainable effects for revitalization.

Family obligation is magnified in eastern Taiwan

Consistent with a previous study [23], the current study showed that respondents who have worked in the hospital for 15 or more years perceived less stress compared to younger nurses. Family life and associated family-work conflicts could be a source of stress [13,14,18]. Current research provides additional evidence by showing that the married nurses with two or three children perceived greater stress compared to those who were single or had no children. This is particularly true in traditional Chinese society, where women are expected to assume most of the responsibility for the house, children, and older adults. This group of nursing professionals tends to exaggerate the most impactful forces of family obligation because of their self-perception of socio-economic status in such a regional sub-culture in Taiwan.

Dimen	sions	PJ	PP	PC	PR	PW	HP	1	2	3	4	5	6	7
Job stress(PJ)		1												
Persor	nal affair(PP)	0.308**	1											
Compe	etence (PC)	0.326**	-0.176	1										
Persor	nal response (PR)	0.497**	0.556**	0.106	1									
Work concern (PW)		0.385"	0.547**	0.006	0.715**	1								
Perceived health(HP)		-0.406**	-0.365"	-0.287**	-0.696**	-0.513"	1							
1.	PF (function)	-0.184 [™]	-0.196 [™]	-0.051	-0.223 ^{**}	-0.147	0.557**	1						
2.	RP (physical)	-0.312**	-0.339**	-0.077	-0.504**	-0.361"	0.785**	0.446**	1					
3.	BP (pain)	-0.188**	-0.426**	-0.028	-0.561**	-0.274**	0.642**	0.454*	0.366**	1				
4.	GH (general)	-0.282**	-0.345**	-0.056	-0.485**	-0.291"	0.622"	0.265**	0.384**	0.470**	1			
5.	VT (vital)	-0.358 ^{**}	-0.377**	-0.285 ^{**}	-0.679**	-0.338**	0.732**	0.257**	0.455**	0.472**	0.451**	1		
6.	SF (social)	-0.228**	-0.413**	-0.295**	-0.468**	-0.376**	0.774**	0.348**	0.510**	0.583**	0.439**	0.588**	1	
7.	RE (emotion)	-0.336**	-0.205**	-0.287**	-0.511 ^{**}	-0.398**	0.783**	0.267**	0.589**	0.236**	0.327**	0.474**	0.428**	1
8.	MH (mental)	-0.312**	-0.151	-0.126	-0.415**	-0.308**	0.332**	0.163	0.286**	0.158	0.147	0.254**	0.263**	0.295

Table 4: Correlation of stress and health status, N=333; *p<0.05, **p<0.01, ***p<0.001

Despite the fact that nurses in the eastern part of the country perceive greater stress compared to nurses in the western part [4,5], turnover rates in this area are lower. Noteworthy is that nurses in both parts of the country are trained by institutes under same education system, and are employed by the facilities under the same accreditation system. This suggests the presence of regional subculture. Part of the reason behind this phenomenon is due to the restricted availability of job offers in the east [17]. Another reason may stem from the perception of the socioeconomic status of nursing professionals in Eastern Taiwan's society as well as the nurses' perceived psychological contract [25] with the hospitals. The medical professionals in the Eastern Taiwan generally receive a better compensation package (similar levels of compensation plus a special allowance). Job positions with responsibility for human life offer attractive incomes, which have given the medical profession a highly respected socio-economic status in the less-developed east. As a result, nurses may perceive even stronger stress from their family obligations, for example, a better educational performance of their children, or a nicer housekeeping among others. This means that the levels of the psychological contract that bind the nurses' subjective perception of their family obligations may be stronger for those in the eastern rather than western part of the country. This may imply that nurses in Eastern Taiwan may perceive stronger family obligations because they are viewed as having higher socioeconomic status.

Since a supportive culture increases job satisfaction and organizational commitment [26], the hospitals should start establishing and maintaining a supportive atmosphere with a focus on balancing work and family obligations to enhance person-organization fit [13,14,26]. Special care is needed in a particular subculture.

Conclusion

The nurses in the hospitals that were included in this study did not perceive stress and health status significantly differently. These hospitals fare worse compared to those in the western part of Taiwan in terms of turnover, costs, and service quality. Thus, the nursing professionals in the eastern psychiatric hospitals are expected to be exposed to higher than average stresses, increasing their risks of both poor person-environment fit and organizational commitment. The "personal response" has the greatest association with almost every aspect of poor health status and thus needs special attention. Despite the compensation package and the social status associated with being a nursing professional, the respondents perceived not only the

stresses from their jobs, but also stresses from family and society, and consequently, they experienced poorer health status. Unless the nurses engage in stress-coping activities, stresses may not subside. Nurses have manifold opportunities to engage in stress-relieving activities because the hospital is situated in a district surrounded by abundant leisure or sightseeing resources. Eastern Taiwan is well known for its excellent natural resources and tourism sites. However, precious resources of this kind may not be relied on as sources of stress relief. Administrators at all levels of the hospitals should establish and maintain an effective and easily accessible support system to enhance the nurses' organizational commitment and properly address the individual-specific stress sources (i.e., family and society in particular). Eventually, this may foster a person-environment fit. The higher the degree of person-environment fit, the higher the job satisfaction and the better the health status.

Excess stress may be detrimental to health. Although the current research showed a moderate level of relationship between perceived stress and health status, personal response to stress has a detrimental effect on health. The professionals are well compensated with generous allowances. As a result, these female professionals are forced by the traditional culture to meet high standard in keeping or managing her family. This implies that effective stress management strategies should be customized to specific needs of each individual. A periodical and close monitoring of each individual nurse's family obligation would be able to generate effective and timely advices or assistance.

This research is among the first to link the concept of personenvironment fit with nurses' stress and one of the first to consider social factors in the PE fit. Thus, it may contribute to our understanding of stress and health among nurses, particularly those working in psychiatric hospitals. First, a generous compensation program may merely satisfices the psychiatric nurses' basic need. Second, the current research provides evidence for the deficiency of an avoidance strategy. This implies that hospitals cannot rely solely on locating a tourism destination to help workers' deal with stress. Third, social and economic status in a society can impose additional pressure on the workers. Fourth, the social desirability of the captioned environment can affect the levels of person-environment.

Limitations and Future Research Recommendation

Although the sample distribution in this research was not significantly different from the national data, the results may not be fully representative of the population and thus need to be interpreted

carefully. Other limitations are that the study did not establish the causal relationship between perceived stress and health status. Furthermore, the effects of social desirability on the levels of PE fit were not statistically different, and they need to be empirically tested in the future. Additionally, health status was measured by subjective grading using a self-administered questionnaire. Accordingly, additional objective measures may be needed to support the real health status of the respondents.

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