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# The Relationship between CognitiveHardinessagainst Life Stressesand Coping Styleswith an Emphasis on Gender Differences

# SamanehGhahremani<sup>1\*</sup>, Seyed Mohammad Kalantarkousheh<sup>2</sup>

 MA in Carrier Counseling, Faculty of Psychology and Education Sciences, Department of Counseling, AllamehTabataba'i University, Tehran, Iran.
 Assistant Professor, Department of Counseling, Faculty of Psychology and Education Sciences, AllamehTabataba'i University, Tehran, Iran.

# Abstract:

This studyintended to examine the relationship between cognitive hardiness against lifestresses and coping styleswith an emphasis ongender differences. Adescriptive research method was used. Thepopulation is comprised of teachersfrom differenteducational areasof Tehran, Iran. There were 141 subjects:41 males and 100 females. We used the following questionnaires: Stressful Life Events Screening Questionnaire (SLESQ), Coping Inventory for Stressful Situations (CISS), General Health Questionnaire (GHQ-28) and Ahvaz Hardiness Inventory(AHI). For data analysis, the Pearson correlation test, independent t-test, and multiple regression analysis were performed. The results showed significant positive relationship betweenhardiness, coping ability, and life stress. Thus, an increasein psychological hardiness would result in the increase of task-orientedcoping ability. On the other hand, there is a negative relationship betweenhardiness andemotion-oriented copingstyle. The results also showed thatmendeal withproblemsusingtask-oriented and avoidance-oriented copingstyles, while emotion-oriented coping is used by women. No significant difference was noted betweenmen and women according to hardiness. The findingsindicatedthe effect of individuals' hardinesson their employment ofan effectivecoping styleindealing with lifeevents and stresses, sothat the findingscan beusedin the fields ofcounselingand therapy.

Keywords: Stress, Copingstyle, Hardiness, Gender

#### Introduction

Modern life is accompanied by many complexities and difficulties such as social and family transformation, dangerous diseases, environmental pollution, war, and competition each of which can alone put a lot of pressure and stresson individuals. Living in such a world requires a bilities, skills and good planning in order to increase the adjustment and stability in the face of difficulties and adversity besides keeping one 's health. Stress factors cannot be completely eliminated, but people must be trained how to interpret stressors and how to use effective methods to deal with the problems they face.

\*Corresponding author: SamanehGhahremani

Whenfacedwith problems, people show various reactions whichcan beemotional, behavioral, or cognitive, and sometimesmay lead them to a problem-solving orthat may divert them from the problem in which their recognitionplaysan important role in the management process of the problem. High levels ofstress have a devastating effectonindividuals 'focuson dealing with thepsychological pressures. Health specialists believe that stress is a majorinfluenceon people's lives which is closely related tomental health (Abedalhafez, Altahayne, & Alhaliq, 2002). Stressis ageneral response to environmental demands and pressures accompanied with limited resources to dealeffectively with them (Hamid, 2013). Stressis a situation that occurs a result of a conflict between the individual and the environment, causing inconsistency between the requirements of the situation and the individual 's biological, psychological, and social resources (Dehkordi, 2011). Although in little amounts stress can be apositive influence on the increase of motivation and be a stimulus deal with problematic situations, a large amount of stress can make individuals feel angry, feared and frustrated, and also endangers physical and mental health (Giga, Cooper, & Faragher, 2003). Several studies in the field of health psychology have shown that stress, anxiety and other similar factors can affect lifequality (Mitchell, 2006). Failure to deal effectively with stress can cause undesirable changes in behavioral psychological processes and threaten health ((Besharat, 1386).

Studies have shownthat the typeand severity of reactions against stress adopted by individuals does not always have a direct relationship with the stressors, but are primarily related to how they understand the events and also associated with the degree of danger and threats perceived (sabet, 2005).

Studieshave also indicated that the relationship between stress and mental health is influenced by anumber of variables such as personality traits, coping styles, and gender (Berrocal, Pennato, & Bernini, 2009; Brebner, 2001; Pallant & Lae, 2002; Penley & Tomaka, 2002).

A great bulk of studies is inconsistentin examining the amount of experiencing stress based on gender differences (Moreland & Dumas, 2008). Nevertheless, some researchershave shownthat women have reportedmorestressful experiences as compared to men(McDonough & Walters, 2001). In another research, (Matud, 2004) gendervariable can and every element of the stress process (e.g. determining whether as ituation is stress fullow not; influencing coping strategies, health consequences, stress responses).

A study by Walton(2002) showedthat people withhigh levelsof positive perceived stress, usually use 'venting' strategy, while those with lower perceived stressuse 'denial's trategy. Besharat(1386) also showed the effect of personality characteristics on employed coping strategies.

Methods ofcopingwithstressfulcircumstancesvary according to each individual which can be used to examinecopingstyles. Coping is expending conscious psychological behavioral effort to solve personal and interpersonal problems, and seeking to master, reduce, minimize or tolerate stressful events or conflicts (Larijani & Besharat, 2010).

According toLazarusandFolkman(1984), copingisa set ofbehavioral responsesaimed at minimizing the pressures of a stressfulsituation. Gallagher, South, & Oltmanns,(2003), believe that coping is the individual 'semotional, cognitive and behavioraleffortsto overcome, endure, or minimize theeffects ofstresswhen confrontingapsychological pressure. Therefore, in a comprehensive definition of coping it can beacknowledged thatcoping isprimarilya process; secondly,cognitive assessmentplays amajor rolein coping; thirdly, copingdepends oncognitive,emotionaland behavioralefforts; fourthly,copingis employedto maintainmental health.

Copingprocess is mainly composed of cognitiveand behavioral procedures employed to managestress. In the coping process, learned behavioral responses reducestress, via limitation the importance of dangerous orunpleasantsituation(Besharat, 1386). Copinghastwomajorfunctions: 1. Regulation ofunpleasantemotions, and 2. Taking an action change improve bothering problem (Karademas & Kalantzi-Azizi, 2004). Coping strategies divided into two categories of task-oriented and emotion-oriented coping. Task-oriented coping strategies include: Active problem-solving techniques used to solve the stress fulrelationship between selfanden vironment. The most important these strategies include: confrontive coping, aggressive efforts, seeking social support, efforts to get emotional and informative support from others, and problem-solving (Compas, Connor-Smith, Saltzman, Thomsen, & Wadsworth, 2001).

On the other hand, emotion-oriented strategies include practices based on which individuals achieve the optimal level of emotional adjustment and the ability to deal within tense emotions and critical situations (Saarni, 1999). The most notable emotion-oriented strategies include: self-concept, attempt to regulate and control one's own emotions, distancing, attempt to break away from the situation, reappraisal/adaptation, attempt to find a positive meaning from the experience with an emphasis on personal growth (Taylor, 1999).

Masoudnia and Ebrahim(2008)showedthat individuals withhigh levelsofself-esteemuse emotion-orientedcoping strategies including reappraisal/adaptation.

Recent researches have shown that the type of coping strategy employed affects mental health as well as physical well-bein(Piko, 2001). Latifian(1384) also concluded that there is a relationship between personality factors and

coping strategies used. Gender can also have an important role in the determination of employed coping strategies. Shapiro, McCue, Heyman, Dey, & Haller(2010) showed that men usually use task-oriented coping methods, while women prefer to employ solutions based on emotion, social support, emotional experience and wishful thinking. The results of this study also emphasized the effect of coping styles on mental health. Wilson, Pritchard, & Revalee(2005) also showed that there is a significant difference between both genders in coping style scores.

Anotherpsychological structure that can be predicted to be crucial in the face of life events is 'hardiness'. Hardiness is a stable personality structure comprising the three related general components of 'commitment', 'control', and 'challenge that functions as a resistance resource in the encounter with stressful conditions (Kobasa, Maddi, & Kahn, 1982). Hardy individuals are committed to what they do and devote themselves to their goals, feel dominant, determinative, and recognize life challenges as motivating opportunities for personal growth rather than deprival or threats to security (Kobasa, 1979).

Different studies indicate that there is a positive relationship between hardiness, physical well-being and mental health. Hardiness as an innersource of strengthreduces the negative effects of stress, and prevents the occurrence of physical and psychological disorders (Brooks, 2003; Kobasa, 1979). Another study has shown that individuals with high hardiness uset as k-oriented coping methods while those with low hardiness employemotion-oriented coping methods instress fulsituations (Giga, et al., 2003). It also has been shown that individuals with low hardiness would be afflicted by cardiaccoronary disease, cholesterol and blood pressure in the long run, while people with high hardiness will remain immune from the negative effects of stress (Brydon, Magid, & Steptoe, 2006).

Researchers in a study have concluded thatnursemanagers with high hardinessascompared tothose with low hardiness suffer from lower levelsof stressand enjoybettertask-orientedcoping skills(Beirami, 1391). Other researchers haveindicated that individuals with highlardinessas compared to their low hardy counterparts assess stressful situations less threatening and more manageable and employmore effective coping strategies (Besharat, 1386). Another research has shown that hardiness reduces the stress fulness of events, as well as the psychosomaticar ous alderived from them, it also has a positive effect on individuals 'health (Kobasa, et al., 1982). (latifean, 1384) showed that instress fulsituations those with a higher level of hardiness enjoy more mental health as compared to those with lower levels of hardiness.

Accordingly,this studyutilizing studies discussed in the introduction tries to answer the question that 'how people react to the stresses of life?' In other words, 'how factors such as different levels of stress and coping styles affect the lives of people by amount of hardiness, and how would the role of gender be described?' Therefore, following hypotheses are proposed:

- 1. There is a significant difference between men and women in terms of stress, hardiness and cognitivecoping styles.
- 2. Stressandcopingstylecanpredict amount of hardiness.

#### Materials and methods

## Participants and sampling methods:

The population is comprised of teachers from different educational areas of Tehran, Iranwithan average age of 29 to 50. The sample consists of 200 teachers selected by available sampling method, among whom the question naires were distributed. Among two hundred question naires were distributed only 141 (100 females and 41 males) were returned to the researcher.

### **Research instruments**

- 1. The Stressful Life Events Screening Questionnaire (SLESQ): SLESQwas developedbyPickle(1971) as a general post-traumatic event screening questionnaire for use in non-treatment seeking samples. The SLESQ is a 13-item self-report screening measure designed to assess lifetime exposure to a variety of traumatic events. The measure was developed in the context of a research study that required a comprehensive self-report traumatic event exposure screening questionnaire to be administered to a large pool of respondents. The Cronbach's  $\alpha$  coefficientobtained in this study was 0.85.
- 2. Coping Inventory for Stressful Situations (CISS): Thequestionnaire was developed by Endler and Parker (1994)) and was translated into Persian by Akbarzadeh (1376). Respondents are asked to rate each of the 48 items on a five-point Likert-type rating scale ranging from (1) "Not at all" to (5) "Very much." The CISS focuses on three major dimensions of coping in response to a stressful situation: Task-oriented, Emotion-oriented, and Avoidance-oriented coping. The multidimensional approach to the assessment of coping with stressful situations provides great precision in predicting preferred coping strategies. There are also two subscales for the Avoidance-oriented scale: Distraction, and Social Diversion. Cronbach's  $\alpha$  reliability coefficient of the questionnaire have been reported 0.81 and its

validityhasbeen proventhrough different researches conductedon Iranian population(Ahmadi, 1380). This study used the three major methods of coping (Task-oriented, Emotion-oriented, and Avoidance). The reliability obtained using Cronbach's  $\alpha$  for each of the major dimensions of coping was 0.84, 0.68 and 0.80 respectively.

- **3. General Health Questionnaire**(**GHQ**):**GHQ**-28 was developed as a screening tool to detect those likely to have or to be at risk of developing psychiatric disorders by Goldberg and Hiller (1979), whose items are selected from an original 60-item questionnaire. The questionnaire like the original one is composed of 4 sub-scales, each of which has 7 questions. Recognition scales of GHQ-28 are as follows: (1) somatic symptoms (items 1-7), (2) anxiety/insomnia (items 8-14), (3) social dysfunction (items 16-21), and (4) depression (items 22-28). There are different methods to score the GHQ-28. It can be scored from 0-3 for each response with a total possible score on the ranging from 0-84. Using this method a total score of 22 is usually the threshold for the presence of distress. The criterion validity of the questionnaire is 0.78, the alpha reliability coefficient is 0.90, and Cronbach's αis 0.97. Houman (1376) reported the alpha coefficient for the questionnaire in its Iranian normalization (0.85). We used all four subscales in this study.
- **4. AhvazHardinessInventory**(**AHI**): Theinventory was developed and validated by Kiumarsi, et al. (1377). AHI is a 27-item instrument containing 4 options for each item and its measurement is Likerty based. The inventory is in the range of 0 to 81. High score on this question naire indicates a high psychological hardiness. Kiumarsi, et al. (1377) reported the reliability coefficients of the question naire in retest and Cronbach's  $\alpha$  methods 0.84 and 0.76 respectively. The Cronbach's reliability obtained in this study was 0.71.

#### Results

69.9% of the study population were females and 30.1% were males. Table 1 reports the descriptive analysis for research scales separately for males and females.

	Statistical index Scale	min	max	error	Standard deviance	mean	number
Cognitive Hardiness	Male	20	72	10.65	10.75	53.87	41
	Female	22	76	0.85	8.52	55.34	100
Stress	Male	0	22	0.59	3.78	1.75	41
	Female	0	36	0.43	4.38	2.14	100
Task- oriented Style	Male	35	75	1.45	9.30	56.58	41
-	Female	31	68	0.80	8.01	49.9	100
Emotion- oriented Style	Male	19	44	1.07	6.88	23.03	41
	Female	10	43	0.67	6.78	29.70	100
Avoidance Style	Male	19	45	0.90	5.80	31.04	41
•	Female	17	47	0.61	6.18	25.66	100

Table1. Descriptive analysis for scales by gender

LevineF-test was conducted to examine thehomogeneity of variances in the two groups of men and women, the results of which are given Table 2.

Table2.LevineF-test forhomogeneity of variances according to gender

VariablesIndex	Avoidance Style	Emotion- oriented Style	Task-oriented Style	Stress	Cognitive Hardiness
df 1	1	1	1	1	1
df2	139	139	139	139	139
F	0.367	0.139	2.25	0.68	2.73
Sig	0.56	0.71	0.14	0.41	0.10

Considering the sample size in each group, and the establishment of the hypothesis of equal variances (Levine F test), independent t-test was used to determine the significance of differences between the two groups in any of the variables.

Table3.Independent T-testfor the differencesbetween men and women

Statistical index scale	Significance level	r	Т	df	Difference
Cognitive Hardiness	0.05	0.39	0.86	139	-1.46
Stress	0.05	0.62	0.49	139	6.68
Task-oriented Style	0.05	0.001	4.29	139	6.65
Emotion-oriented Style	0.05	0.001	5.26	139	3.38
Avoidance Style	0.05	0.003	3.01	139	-1.28

According to Table 3, theresults indicate significant differences between men and women in all the three styles of coping (task-oriented, emotion-oriented and avoidance) (p< 0.05). The results indicate that there are significant differences between men and women according to the means of the two groups based on task-oriented, emotion-oriented and avoidance styles. With respect to the scores mean, men employ task-oriented and avoidance coping styles more than women do. Table 3 shows that there is no significant difference between men and women in cognitive hardiness and stress.

Table4. Correlation coefficients of predictor variables (stress, copingstyles) according to cognitive hardiness

CriteriaPredicator	Avoidance Style	Emotion-oriented Style	Task-oriented Style	Stress
Cognitive hardiness	0.19*	-0.34**	0.25*	0.32**

<sup>\*</sup>p<0.05 \*\*p<0.01

As shownin Table4, there was a significant positive relationship between cognitive hardiness and stress, task-oriented and avoidance copingstyles, while there was a negative relationship between the cognitive hardiness and emotion-oriented copingstyle.

Multiple regression analysis was used to examinewhich of the predicator sub-scales can playa more important roleinpredicting cognitive hardiness. After confirming the establishment of the basic assumptions of multiple regression analysis, the model was tested, the results of which are presented in Table 5.

Model	sig	$R^2_{adj}$	$R^2$	R	F	MS	df	Total square
Regression	0.001	0.29	0.31	0.55	15.88	933.48	4	3733.95
Residual						58.76	136	7991.03
Total							140	11724 98

Table 5 - Regression analysis of hardiness prediction by predictor scales (stress and coping styles)

As shown in Table 5, the significance level is less than 0.05, indicating the significance of regression at a level of 95%. Index  $R^2_{adj}$  "corrected coefficient of multiple determination" suggests that task-oriented, emotion-oriented, and avoidance coping styles, and stress subscales can predict 29% of the cognitive hardiness among men and women. Given the significance of the entire model, we used t-test to investigate which variable or variables have a significant effect on the model.

	Table 6 - Coefficients	<ul> <li>standardized and un-standar</li> </ul>	rdized t-statistic variables ent	ered into regression equation
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Predictive variable	Significance			Regression coefficients	
	level	sig	t-test	Standardized	Un- standardized
Constant	0.05	0.001	11.198		50.71
Stress	0.05	0.039	2.09	0.15	0.33
Task-oriented style	0.05	0.001	5.36	0.43	0.44
Emotion-oriented style	0.05	0.001	-5.41	-0.46	-0.56
Avoidance style	0.05	0.147	-1.46	-0.12	-0.18

Table 6 shows that the factors of *stress* (0.15) and *task-oriented style* (0.43) have a significant positive effect on the cognitive hardiness at a level of 5%. Table 6 indicated that an increase in these factors would result in an increase in cognitive hardiness among men and women. Emotion-oriented coping style (-0.56) has a significant negative effect on the cognitive hardiness, thus an increase in emotion-oriented coping style would result in the reduction of cognitive hardiness.

# **Discussion and Conclusion**

This research aimed to study the issue of "how people react to stress?" In other words, it examined the effect of factorssuch asstress, coping styles, individuals 'hardiness and related gender differences. The resultsshowed that individuals with high hardiness and usingtask-orientedcoping rather thanemotion-orientedenjoy morementalhealth. Theresults of this study were in line with the resultsofZhou(2008) which examined therelationship between coping styles, self-esteem and personal and mental health factors among Chinese students and indicated that mental health is correlated with coping styles and stress. Therefore, to reduce health problems we should reduce stress and passive avoidance coping.

Vergara, Smith and Keele(2010) examined the coping responses amongstudents, theresults of which showed that lower levelsof stressaresignificantlycorrelated with active coping responses. In other words, a reduction in stresswill result in application of positive coping styles. The present study also showed that task-oriented coping style reduces stress.

Shokri(1390) in his studyshowed thatwomenwould obtainhigher scores in avoidance and emotion-orientedcopingstyles, while men earn higher scores in task-oriented coping style. Another research by Misra(2000) concluded that womenhadhigher scores and experienced more stress than menonstressors. The results of another study indicated that task-oriented and emotion-oriented coping styles are in higher priority than avoidance coping. Furthermore, men use avoidance coping more than women (Tasaddoghi, 1391). The study findings also showed that men score higher than women in task-oriented coping and avoidance; women also use emotion-oriented coping style more than men.

This study is also in line(Hamid, 2013) which examined the effect of effective stress coping strategies on mental health among students, the results of which indicated that individuals with a high level of hardiness enjoy more mental healththan those with lower levels of psychological hardiness. It also showed that their amount of somatic and anxiety symptoms, insomnia and depression were much lower than their un-hardy counterparts. The results of present study also indicated that there is a positive significant correlation between hardiness, coping and stress in life which means the increase of hardiness would result in the increase of task-oriented coping which is also in line with the results of Kooshaba, et al. (2006).

Narimani (1386) concluded that there is a significant positive relationship between hardiness, thinking style, social skills and academic achievement. He also indicated that hardiness makes individuals react to life events with a special and stable style. Kobasa and colleagues(1982) and Zakin and colleagues (2003) reported that hardy individuals consider life events as comprehensible and diverse. In contrast, un-hardy individuals usually have a sense of alienation towards events, disability, feel threatened, and have less control over them. Brooks (2003) in his study found that individuals with high hardiness have a positive interpretation of life changes, prevent stress and rarely complain of physical symptoms. In fact, hardy individuals employ more adaptive methods of coping in dealing with life's problems. The findings of Brooks (2003) are in line with the present study in showing that hardiness and use of effective coping strategies is highly effective on mental health.

Antonovsky(1979) and Lazarus (2004) suggest that a reduction in the amount of hardiness against life problems is associated with a feeling of stress, anxiety or depression.(Narimani, 2010) showed that perceived stress is associated with life satisfaction among students.Shokri (1390) found that women use emotion-oriented and avoidance coping styles, while task-oriented style is use by men. All the studies mentioned above are in line with the findings of the present study.

Study results suggest that the variables of Hardiness, Stress, and Coping styles can be predictors of health. Considering the fact that the present study was conducted on teachers in Tehran, similar researches are needed to generalize the obtained results. In this regard, further research on several groups with a greater sample size is recommended. Using of different age groups to enjoy the possibility of results comparison is also suggested. Furthermore, classes and workshops can be held to reduce stress and train effective coping styles.

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