Study on the Influence of Resilience on Suicidal Impulse of the Elderly Population in City and Fishing Village

Mi-Ja Yang¹ and Sung-Je Cho²

 ¹ Department of Education at DongbangCulture Graduate University, Dong Bang Postgraduate, 60, Seongbuk-ro 28gil, Seongbuk-gu, Seoul-si, zip-code: 136-823 Receiver's,korea E-mail: <u>590isp613@daum.net.</u>
² Department of Education at DongbangCulture Graduate University, Dong Bang Postgraduate, 60, Seongbuk-ro 28gil, Seongbuk-gu, Seoul-si, zip-code: 136-823 Receiver's,korea E-mail:<u>chosj715@daum.net.</u>
* Correspoding Author: Mi-Ja Yang - Air-mail address: Dong Bang Postgraduate,
60, Seongbuk-ro 28gil, Seongbuk-gu, Seoul-si, South Korea zip-code: 136-823

Abstract

This study aims to analyze the influence of the resilience on the suicidal impulse of the elderly population in the city and fishing village. The survey was conducted on the elderly people living in city and fishing village in Jeonnam province from August 1, 2014 to September 30, 2014. T-test, correlational analysis, and regression analysis were performed by using SPSS/WIN 18.0 to measure the resilience of the elderly living in city and fishing village. The actual analysis was performed at the significance level of5%. The result of the present study indicated that the suicidal impulse of the elderly in city and fishing villagedid not have significant correlation to the care from thefamily and the society, peer social expectation, and peer positive correlation. Instead, the resilience of the elderly was shown to have influence on suicidal impulse with respect to thecommunity care and expectation factors. The implications of the present study are expected to become resources develop programs to prevent suicidal impulses of the elderly according to their resilience.

key words : Elderly population in cities and fishing villages, elderly resilience, elderly suicidal impulse, community care, social expectation

1. Introduction

1.1 Necessity of Study

Recent increase in the individual income and improvement in the medical technology have increased the average life span of the elderly and marked the entrance to the extreme ageing society. According to the National Statistics Office, the elderly suicidal rate inKorea wasthe highestamong the OECD countries in 2013;the elderly poverty has a closerelationship with the suicidal rate; and for every 100,000 elders, the suicidal rates of those between 65 - 69 years old and those between 70 - 74 years old were 107.4 and 158.6, respectively, indicating high level of suicidal rate[1]. The factors affecting elderly suicidal rate are found to be fostering cost, social welfare cost, relative poverty, elderly economic activity participation rate, and theincreased ageing ratio, in the order of frequent occurrence. In order to solve theseproblems, finding solutions of decrease the cost of elderly fostering in therapidly ageing society shallbe done first [2]. Theelderly without religion showed to have a significantly high rate of suicidal thought, and those believing their life quality to be low showed high rate of suicidal thought. Those who believed that their health wasnot good tended to have significantly high rate of suicidal thoughts, and those with depression and pain showed high rate of suicidal thought [3].

Thesuicidal rate due to disease was high for those who were not healthy. In other words, suicidal thoughts were different according to the degree of pain. Thus, it was acknowledged health condition, daily work capability, and family support, etc. On the other hand, the number of physical diseases, pain, and mental pain showed correlation to the number of suicides and the suicidal thoughts [4].

Recently, there have beenmany studies regarding the elderly suicidal rate. Mostof theprevious studies, however, were on the elder abuse and suicidal impulses, and not enough on the influence of elderly resilience on suicidal impulse, according to different regions. Therefore, this study plans to investigate the effects of resilience on the suicidal impulse of the collective group of the elderly population in city and fishing village, and discuss the importance of preventing suicidal impulses.

Studies on resilience were reported on family resilienceand ego resiliency [5]. Previous studies indicated that the family resiliencecontrols the elderly suicidal thought and quality improvement. Thus, this study aims to analyze the influence of resilience of the elderly population in city and fishing village on the suicidal impulses.

1.2 Problem Statement

Specific problems of this study are as follows.

First, what are the characteristics of the resilience of the elderly in city and fishing village and the suicidal impulse?

Second, what are the effects of the resilience of the city elderly on suicidal impulse? Third, what are the effects of the resilience of the fishing village elderly on suicidal impulse?

2. Study Method

2.1 Study Subject and Design

From August 1, 2014 to September 30, 2014, questionnaire survey was conducted on the elderly people living in cosmopolitan areas. The subjects either self-reported the questionnaires, or were paralleled with individual interviewsfor the final evaluation. The sample size of study subject was calculated by using G*Power 3.1, based on Cohen's official program. The significance levelwas set at5%, and the examination rate and effect size were set at90% and 0.5, respectively; thus the minimum sample size was calculated to be 70 people.

2. 2 Study Tool

2.2.1 Socio-Demographic Characteristics

Five questionnaire items were used as subordinate factors for the socio-demographic variable, measuring the characteristics factor tool [6], which includes gender, age, marital status, and the principal caregiver in the family. The ratio between the genders was set similarly for bothcity and fishing village.

2.2.2 Characteristics of the FactorsInfluencing Suicidal Impulse

The questionnaire for the socio-demographic characteristics [7] was used.

2.2.3 Characteristics of the Elderly Resilience Scale Factor

Thesocio-demographic characteristics factor was measured with total of six questionnaire items. The questionnaire items for the resiliencyscale characteristic factor [8] were used in the survey. Thevalidity of the elderly resilience scalewas measured by using six items, in which 1 to 6 points were attributed to "strongly disagree," "disagree," "somewhat disagree," "somewhat agree," "agree," and "strongly agree," in an ascending order.

2.3 Reliability Verification

Reliability, the measuring tool for this study, was analyzed by using Cronbach's coefficient, α , and the result is as shownin <Table 1>.

Descripti	on	Paragraph Count	Reliability		
Suicide I	mpulse	28	.932		
Family	Family Cohesion	10	.600		
Function	Family Adaptation	10	.606		
Family F	unction	20	.694		
Family I	ntimacy	5	.604		

<Table 1> Verification of Reliability in Each Area

2.4 Data Analysis Method

The data of this study werestatistically processed as follows. In order to understand the suicidal impulse according to the socio-demographic characteristics of the elderly incity and fishing village, Chi-square (χ^2) test was performed. Reliability aboutsuicidal impulse and family intimacy was determined by using Cronbach's coefficient, a. In order to understand family intimacy and suicidal impulse of the elderly in city and fishing village, t-test was performed. The result from the t-test was then analyzed through correlation analysis and multiple regression analysis. The actual analysis of the statistical analysis.

3. Study Results

3.1 Socio-Demographic Characteristics

The socio-demographic characteristics of the respondents showed a higher ratio in female forcity, as opposed to a higher ratio in male for fishing villages. In terms of the religion, those in city believed in 'Buddhism,' 'Christianity,' 'Catholics,' and 'none,' in descending order, and those in fishing village were believed in 'none,' 'Buddhism,' and 'Christianity,' in descending order. For the marital status, 75.0% and 71.0% were found to be married in city and fishing village, respectively. However, 12.0% of the respondents in city answered to have 'divorced,' showing a higher rate than that of fishing villages.

3.2 Resilience of the Elderly in City and Fishing Village and Suicidal Impulse

The results of the resilience of the elderly in city and fishing village and suicidal impulse areas shownin <Table 2>.

The average resilience was 3.39,and 3.41 for the elderly in city and fishing village, respectively, indicating not much difference. However, family care and expectation for theelderly in citywas 3.26, while that of the elderly in fishing village was 2.72. In other words, city elderlyshowed higher resilience(t=3.195, p<.01). Significant correlation in social (group)was found to be higher for the city elderly, with an average value of 3.42, as compared to those in fishing village, whose average value was 3.08 (t=2.273, p<.05). For community care and expectation, city elderly averaged 2.86, while fishing village elderly averaged 2.38, the former showing a higher resilience (t=2.708, p<.01). The significant correlation for community came out to be higher for the city elderly, with average of 2.78, while those in fishing village averaged 2.10. Again, the rating of the former groupwas higher in resilience (t=3.812, p<.001). In suicidal impulse, city elderly averaged 1.45, while fishing village elderly averaged 0.58, the former showing a higher suicidal impulse(t=17.371, p<.001).

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Category			City (N=100)		ing age .00)	t	р
		Mean	SD	Mean	SD		
Elderly	Family care and expectation	3.26	1.38	2.72	.98	3.195***	.002
Resilience	Significantinteraction at home	3.54	1.26	3.73	.85	-1.250	.213
	Society (group) care and expectation	3.24	1.04	3.08	.93	1.143	.254
	Significantinteraction in society (group)	3.42	1.16	3.08	.94	2.273*	.024
	Community care and expectation	2.86	1.27	2.38	1.23	2.708**	.007
	Significantinteraction in community	2.78	1.31	2.10	1.18	3.812***	.000
	Social expectation of the peer	3.13	1.28	3.33	1.08	-1.236	.218
	Positive interaction with peer	3.32	1.30	3.33	.76	066	.947
Elderly Resilience		3.39	.75	3.41	.68	148	.883
Suicidal Impulse		1.45	.37	.58	.34	17.371***	.000

<Table 2 >Resilienceand Suicidal Impulseof the Elderly inCity and Fishing Village

p<.05, ** *p*<.01, *** *p*<.001

3.3 Influence of Resilience of the Elderly in City on Suicidal Impulse

The result of correlation relationship between city elderly resilience and suicidal impulse is as shownin <Table 3>.

Thesubordinate factors o family did not show significant correlation to the elderly resilience and suicidal impulse.

Category		Elderly Resilience								Elderly	Suicid
		Fami	Family	Soci	Social	Commun	Commun	Peer	Peer	resilien	al
		ly	interacti	al	interacti	ity care	ity	expectati	interacti	ce	impul
		Care	on	Care	on		interactio	on	on		se
							n				
Elderly	Family	1									
Resilien	care and										
ce	on										
	Mooning	010	1								
	ful	.010	1								
	interactio										
	n at										
	home										
	Society	012	163	1							
	(group)										
	care and										
	expectati										
	Maaning	110	071	142	1						
	ful	118	.071	.145	1						
	interactio										
	n in										
	society										
	(group)										
	Commun	.002	.051	035	.017	1					
	ity care										
	and expectati										
	on										
	Meaning	- 044	129	- 012	108	097	1				
	ful	.011	.12)	.012	.100	.077	1				
	interactio										
	n in										
	communi										
	ty										
	Social	.007	.165	.045	.174	012	.044	1			
	on of the										
	peer										
	Positive	.070	.118	.130	.106	.018	.065	.154	1		
	interactio			.150	.100			.1.5 1	1		
	n with										
	peer										
Elderly l	Resilience	.000	.726	.560 ***	.160	.018	.100	.170	.190	1	
Suicida	Impulse	.011	060	078	.137	067	.157	025	.026	105	1

<Table 3> Correlation between the Resilience of the City Elderly and Suicidal Impulse

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*** p<.001

* The result of the influence of resilience on suicidal impulse of the elderly in fishing village is as shownin <Table 4>.

<table 4=""></table>	Influence	of Resilien	ce of the	e Elderly	inFishing	Village	on	Suicidal
Impulse								

Category			Dependent Variable : Suicidal Impulse					
			Standard Error	β	t	р	VIF	
(Constant)			.255		.561	.576		
Elderly	Family care and expectation	.045	.034	.128	1.331	.187	1.057	
Resilience	Meaningful interaction at home	- .044	.039	- .109	-1.122	.265	1.076	
	Society (group) care and expectation	.064	.035	.174	1.802	.075	1.066	
	Meaningful interaction in society (group)	.055	.036	.152	1.546	.126	1.102	
	Community care and expectation	.067	.028	.242	2.414*	.018	1.149	
	Meaningful interaction in community	.023	.028	.081	.830	.409	1.089	
	Social expectation of the peer	.044	.032	.138	1.388	.168	1.133	
	Positive interaction with peer	- .075	.047	- .165	-1.590	.115	1.230	
	R^2 = .204 , adj R^2 =	.134,	$F = 2.916^{**}$	•		•		
[*] p<.05, ^{**} p<.	01							

4. Discussion and Result

The presentstudy analyzed the suicidal impulse, according to the resilience of the elderly living in city and fishing village. The discussion of results is as follows.

First, elderly resilienceshowedsignificant difference between city elderly and fishing village elderly in terms offamily care, family expectation, and social (group) community care. Furthermore, suicidal impulsealso showedsignificant difference betweencity elderly and fishing village elderly. This result illustrated that the elderly suicidal thought increasedastheir health condition deteriorated, as they were more depressed, and as the sub-factors of recovery resilience, the ability to self-control and positivity, decreased.Hence, the result corresponds to that of a study about influence of recovery resilience and depression on suicidal impulse, in whichhighrecovery resilienceand low depression level were found to reduce suicidal impulse [9].

Second, the suicidal impulse of the city elderly did not show significance in relation to any subordinate factor of the elderly resilience. In other words, there was negative correlation between suicidal impulse and elderly social support, self-respect, and social participation [10.11].

Third, there wasno significant correlation between subordinate factorsofcity elderly resilience and suicidal impulse. In other words, this illustrates that there wasnegative correlation between suicidal impulse and theelderly social support, family resilience, and self-respect [9].

Based on the above findings, the following can besuggested. First, the care and expectation of thefamily and community differed for the elderly in city and fishing village. This result is expected to become fundamental resource to improve the suicidal impulse preventive policies for the elderly. Second, the suicidal impulse of the elderly in city and fishing village was not significantly correlated to the family and social care, social expectation of the peer, and positive mutual relationship with the peer. This result stresses the psychological treatment of the elderly in city and fishing village in the suicidal impulse prevention policy. Third, community care and expectation from the elderly resilience were only subfactors that showed significant influence on suicidal impulse. This result is expected to serve as fundamental resource to improve suicidal impulse prevention policy in relation the elderly resilience.

In the future, more studiesshall be conducted investigate the influence of elderly psychological factors on suicidal impulse.

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