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BINARY LOGISTIC ANALYSES ON RESPONSES OF BEING HEALTHY AND UNHEALTHY TO POSITIVE AND NEGATIVE MINDSETS IN CAREGIVERS

Ji-Won Hwang

Department of Nursing, Kyung-dong University, South Korea <u>chiwon0909@kduniv.ac.kr</u>

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ABSTRACT

This study is a descriptive research study on self-perceived evaluations of their health in caregivers: (1) Background: It starts with questions about whether caregivers with patients think of being healthy just by themselves. These healthy caregivers have positive minds. And they are less stressful than others; (2) Methods: Perceived health status (healthy and unhealthy) was evaluated as a response to factors including demographic characteristics, positive psychological capital, and job stress (negative) and using binary logistic analysis; (3) Results: 79 of the perceived good healthy group were compared with 98 of the perceived bad healthy group, total number of which was 177. The mean score of positive psychological capital of the perceived good healthy group was higher than the other (64.0 ± 8.2 : 61.2 ± 8.0). And the mean score of Job stress of the perceived good healthy group was lower than the other (98.9 \pm 11.0 : 102.2 \pm 10.7); (4) Conclusions: In this study, the caregiver group of being healthy had higher positive psychological capital and had lower job stress than the other group.

Keywords: caregiver, positive psychological capital, job stress

1. INTRODUCTION

1.1 The Need for Research

The Korean society is expected to enter the super-aged society in 2025 at 9.81 million, [1]. In the Resident Registration Data of South Korea as of the end of 2023, the number of people in their 70s and older was 6,319,402, which exceeded that of those in their 20s (6,197,486). And life expectancy, which had been 79.6 years in 2008, is being extended to 83.6 years in recent data from the National Statistical Office, [1], and is predicted to rise after that continuously. The increase in the elderly population in South Korea is related to the prevalence of chronic diseases, [1]. The number of elderly people living alone in South Korea is 9.1%, and they require the help of family members or caregivers. From the Labor and Sexual Harassment Counseling Case Report (2022~2023) of the Seoul Senior Care Workers General Support Center, long-term

care workers are neglected in the basic management of labor, and their jobs are unstable due to easy dismissal, and they experience unilateral contract failure from the care beneficiaries, which adversely affects not only being guaranteed stable working hours but also calculating retirement pay, [6]. In addition, they are excluded from the benefits of social insurance as workers and are exposed to sexual and other harassment or unfair work, [6]. Their job stress as the negative mindset adversely affects their health [7] and their organizational performance [8] with turnover intention [7]. Conversely, the positive mindset increases the happiness of individuals and organizations by forming close bonds between oneself and others [9], has a positive effect on organizational performance [10], and is recognized as capital. It is necessary to find a way to improve the health of caregivers by identifying the caregiver's job stress, subjective health status, and positive psychological capital and identifying the correlation between these variables. It is intended to promote high-quality care services by raising caregivers' health levels in an era when social care is required.

1.2 Research Purpose and Research Question

This study aims to identify the caregiver's positive psychological capital, job stress, and perceived health status as basic data for developing a caregiver social support program. The research problems are as follows. First, "Is there a difference in perceived health status according to general characteristics (including work characteristics), positive psychological capital, and job stress?" Second, "Are positive psychological capital and job stress related to caregivers (including Nursing care workers) and perceived health status?"

2. RESEARCH METHOD

2.1 Research Design

This study is a descriptive research study to verify the relationship between positive psychological capital, job stress, and perceived health status of caregivers (including Nursing care workers).

2.2 Study Subjects, Data Collection and Ethical Considerations

This study was conducted based on survey data collected to prepare basic data for the development of a caregiver social support program under the support of Kyung-dong University in 2023 and the Korea Research Foundation in 2024. The survey was conducted using a structured questionnaire from June 1, 2023 to August 31, 2023. Using the G*power 3.1.9.4 program, Odds ratio 2.4, significance level 0.05, power ((1-B) 0.85, R^2 other X 0.6, and when X distribution Lognormal was applied the minimum number of samples was 101 people. Research ethics were explained to caregivers who agreed to this study, and a total of 220 questionnaires were collected, of which 177 were finally analyzed, excluding missing questionnaires.

2.3 Research Tools

2.3.1 Perceived health status

Perceived health status is the National Quality of Life Index among the OECD countries and the National Statistical Office's indicator system, and healthy and very healthy are defined as healthy groups, and the rest are used as unhealthful groups, [11].

2.3.2 Job Stress

This study used the tool to measure 'Korean job stress' [12]. It consists of 4 questions for job demand, four questions for job autonomy, 3 questions for relationship conflict, 2 for job insecurity, 4 for the organizational system, 3 for inappropriate compensation, and 4 for workplace culture, and is a Likert 4-point scale. The development author allowed the use of the tool, and the original tool was used without modification. The reliability of the tool was Cronbach's α =.82.

2.3.3 Positive Psychological Capital

The Korean version of the Positive Psychological Capital Scale (K-PPC), which was adapted and modified from the positive psychological capital tool jointly developed by Luthans, Youssef & Avolio [13], was used [14]. It obtained permission from the site that owns the copyright of the positive psychological capital tool and the developer of the K-PPC tool. The reliability of the development tool was Cronbach's α =.90.

3.4 Data Analysis

The SPSS 27.0 statistical program was used to analyze the following

A. Presenting technical statistics of the subject's general characteristics (including work characteristics)

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- B. The chi-square test, Fisher exact test, and independent sample t-test were conducted to evaluate the differences in general characteristics (including work characteristics), positive psychological capital, and job stress distribution between the Perceived Health group and the Unhealthy group.
- C. Multiple Logistic Regression was conducted to evaluate the relationship between general characteristics (including work characteristics), positive psychological capital, job stress, and Perceived health.

3. THE RESULTS OF THE STUDY

3.1 Distribution of general characteristics (including work characteristics) and positive psychological capital, average and standard deviation of job stress

This study looked at gender, age distribution, marital status, and final education level as general characteristics for 177 caregivers (including caregivers). The gender showed a distribution of 0 males (0.0%)and 177 females (10.0), and the age group showed a distribution of 4 males (2.2%) under 50 years old, 66 (37.3%) from 50 to 59 years old, 96 (54.2%) from 60 to 69 years old, and 11 (6.2%) over 70 years old. The marital status showed a distribution of 129 married (72.9%), 6 unmarried (3.4%), 9 divorces (5.1%), 29 widowed (16.4%), and separated 4 (2.2%), and the final academic background was 6 unschooled (3.4%), 4 elementary schools (2.2%), 34 middle schools (19.2%), and 119 high schools (19.2%), and 119 high schools(67.2%), 14 university students (7.9%). There was no graduate school. Work characteristics were examined regarding job type, certificate, place of work, work experience, etc. The ratio of occupations was 89 nursing care workers (50.3%) and 88 caregivers (49.7%), of which 173 (97.7%) had a nursing care worker license and 2 (1.1%) had a nursing assistant license. Two had no qualifications. In the case of workplaces, 81 university hospitals (45.8%), 12 general hospitals (6.8%), 69 nursing hospitals (39.0%), 2 other hospitals (1.1%), and 13 other facilities (7.3%) had no response to working in nursing facilities. The period of employment in care services was less than 5 years. The distribution was (52.6%), 52 people (29.4%) for more than 5 years and less than ten years, 50 people (28.2%) for more than 10 years and less than 15 years, 24 people (13.6%) for more than 15 years and less than 20 years, and 11 people (6.2%) for more than 20 years. Table 1 shows the average and standard deviation of positive psychological capital and job stress by general characteristics (including work characteristics).

| Total (N=177) n $\binom{96}{7}$ | Job psychology, | Job stress, M±SD | | | | | |
|---|--|--|--|--|--|--|--|
| | | | | | | | |
| | | | | | | | |
| | 62.4 ± 8.2 | 100.7 ± 10.9 | | | | | |
| | | | | | | | |
| $\langle 50 $ 4 (2.2) 66.5 ± 4.4 100.8 ± 10.8 | | | | | | | |
| 66 (37.3) | 63.5 ± 7.7 | 103.9 ± 10.5 | | | | | |
| 96 (54.2) | 62.1 ± 8.6 | 100.1 ± 10.9 | | | | | |
| 11 (6.2) | 57.5 ± 6.6 | 91.7 ± 8.7 | | | | | |
| Married statu | 18 | | | | | | |
| 129 (72.9) | 62.8 ± 7.8 | 100.6 ± 11.3 | | | | | |
| 6 (3.4) | 63.0 ± 9.9 | 107.0 ± 7.3 | | | | | |
| 9 (5.1) | 61.1 ± 10.1 | 100.8 ± 10.1 | | | | | |
| 29 (16.4) | 60.6 ± 8.7 | 101.1 ± 9.5 | | | | | |
| 4 (2.2) | 65.0 ± 12.6 | 92.0 ± 12.0 | | | | | |
| Education | | | | | | | |
| 6 (3.4) | 57.5 ± 4.3 | 102.7 ± 11.9 | | | | | |
| 4 (2.2) | 69.8 ± 5.7 | 92.5 ± 5.1 | | | | | |
| 34 (19.2) | 61.2 ± 9.0 | 97.9 ± 10.3 | | | | | |
| 119 (67.2) | 62.9 ± 8.2 | 101.4 ± 11.2 | | | | | |
| 14 (7.9) | 61.9 ± 6.3 | 103.9 ± 8.7 | | | | | |
| 0 (0.0) | | | | | | | |
| Occupation | | | | | | | |
| 89 (50.3) | 63.6 ± 7.1 | 103.8 ± 9.6 | | | | | |
| | (%) Sex 0 (0.0) 177 (100.0) Age group (yean 4 (2.2) 66 (37.3) 96 (54.2) 11 (6.2) Married statu 129 (72.9) 6 (3.4) 9 (5.1) 29 (16.4) 4 (2.2) Education 6 (3.4) 4 (2.2) 34 (19.2) 119 (67.2) 14 (7.9) 0 (0.0) Occupation | (%) $M\pm SD$ Sex0 (0.0).177 (100.0) 62.4 ± 8.2 Age group (years)4 (2.2) 66.5 ± 4.4 66 (37.3) 63.5 ± 7.7 96 (54.2) 62.1 ± 8.6 11 (6.2) 57.5 ± 6.6 Married status129 (72.9) 62.8 ± 7.8 6 (3.4) 63.0 ± 9.9 9 (5.1) 61.1 ± 10.1 29 (16.4) 60.6 ± 8.7 4 (2.2) 65.0 ± 12.6 Education6 (3.4) 57.5 ± 4.3 4 (2.2) 69.8 ± 5.7 34 (19.2) 61.2 ± 9.0 119 (67.2) 62.9 ± 8.2 14 (7.9) 61.9 ± 6.3 0 (0.0).Occupation | | | | | |

[Table 1] General characteristics (including work characteristics), positive psychological capital, and job stress descriptive statistics

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| coragivar | 88 (49.7) | 61.2 ± 9.0 | 97.7 ± 11.3 | | | |
|-----------------------------|----------------|----------------|------------------|--|--|--|
| caregiver | · / | | 97.7±11.5 | | | |
| Certification | | | | | | |
| care worker | 173 (97.7) | 62.6 ± 8.1 | 100.5 ± 10.9 | | | |
| nursing assistant | 2 (1.1) | 56.5 ± 5.0 | 110.0 ± 11.3 | | | |
| no certification | 2 (1.1) | 56.0 ± 15.6 | 112.0 ± 8.5 | | | |
| | Workplace | | | | | |
| university | 81 (45.8) | 61.1 ± 9.3 | 97.3 ± 11.1 | | | |
| general | 12 (6.8) | 61.5 ± 9.1 | 100.8 ± 11.2 | | | |
| nursing | 69 (39.0) | 63.6 ± 6.8 | 104.6 ± 9.7 | | | |
| other | 2 (1.1) | 61.5 ± 5.0 | 97.0 ± 11.3 | | | |
| nursing facility | 0 (0.0) | • | | | | |
| etc | 13 (7.3) | 65.5 ± 5.2 | 102.2 ± 9.1 | | | |
| | Work period (y | rear) | | | | |
| Five or less | 40 (22.6) | 64.3 ± 8.2 | 100.5 ± 9.7 | | | |
| 5 or more but less than 10 | 52 (29.4) | 62.4 ± 7.9 | 101.6 ± 11.6 | | | |
| 10 or more but less than 15 | 50 (28.2) | 61.3 ± 7.3 | 101.9 ± 11.8 | | | |
| 15 or more but less than 20 | 24 (13.6) | 62.7 ± 9.9 | 100.3 ± 10.2 | | | |
| 20 or more | 11 (6.2) | 60.5 ± 9.0 | | | | |

3.2 Analysis of perceived health status differences by general characteristics (including work characteristic), positive psychological capital, and job stress

Of the 177 subjects, 79 were in the perceived good health status group and 98 in the perceived bed health status group. Table 2 shows the distribution of general characteristics (including work characteristics), positive psychological capital, and the verification of differences in perceived health due to job stress. As a result of the chi-square test and Fisher exact test, there was no relationship between the general characteristics (including work characteristics) and perceived health of the subject. A normality test and an independent sample t-test were performed to evaluate the mean difference between positive psychological capital, job stress, perceived good health status group, and perceived bed health status group. As a result, there was a significant mean difference between the two groups in the perceived good health status group and the perceived bed health status group in positive psychological capital (p=0.025<0.05) and job stress (P=0.047<0.05).

| characteris | tie es), positive psycho | | 0 | | |
|-------------|--------------------------|------------------|-------------|---------|--|
| | | Perceived health | · · | | |
| | | n(%) or M±SD | | | |
| | unhealthy | healthy | Total | p-value | |
| Total | 98 | 79 | 177 | | |
| | Sex | | | | |
| Male | 0 (0.0) | 0 (0.0) | 0 (0.0) | | |
| Female | 98 (100.0) | 79 (100.0) | 177 (100.0) | | |
| | Age group | (years) | | - | |
| < 50 | 2 (2.0) | 2 (2.5) | 4 (2.3) | | |
| 50 ~ 59 | 36 (36.7) | 30 (38.0) | 66 (37.3) | | |
| 60 ~ 69 | 53 (54.1) | 43 (54.4) | 96 (54.2) | | |
| >70 | 7 (7.1) | 4 (5.2) | 11 (6.2) | 0.95 | |
| | Married | status | | | |
| married | 68 (69.4) | 61 (77.2) | 129 (72.9) | | |
| unmarried | 3 (3.1) | 3 (3.8) | 6 (3.4) | | |
| divorced | 6 (6.1) | 3 (3.8) | 9 (5.1) | | |
| bereaved | 19 (19.4) | 10 (12.7) | 29 (16.4) | | |
| separated | 2 (2.0) | 2 (2.5) | 4 (2.3) | 0.71 | |
| | Educa | tion | | | |
| uneducated | 5 (5.1) | 1 (1.3) | 6 (3.4) | | |
| elementary | 2 (2.0) | 2 (2.5) | 4 (2.3) | | |

| [Table 2] Analysis of perceived health status differences by general characteristics (including work | |
|--|--|
| characteristic cs), positive psychological capital, and job stress | |

| م 11 م | 10(104) | 15(100) | 24(10.2) | |
|--------------------------------|----------------|-----------------|------------|--------|
| middle | 19 (19.4) | 15 (19.0) | 34 (19.2) | |
| high | 65 (66.3) | 54 (68.4) | 119 (67.2) | |
| college | 7 (7.1) | 7 (8.9) | 14 (7.9) | |
| graduate | 0 (0.0) | 0 (0.0) | 0 (0.0)_ | 0.71 |
| | Occupa | tion | | _ |
| care worker | 45 (45.9) | 44 (55.7) | 89 (50.3) | |
| care giver | 53 (54.1) | 35 (44.3) | 88 (49.7) | 0.20 |
| | Certific | ation | | |
| care worker | 96 (98.0) | 77 (97.5) | 173 (97.7) | |
| nursing assistant | 1 (1.0) | 1 (1.3) | 2 (1.1) | |
| no certification | 1 (1.0) | 1 (1.3) | 2 (1.1) | 0.98 |
| | Workp | lace | | |
| university | 48 (49.0) | 33 (41.8) | 81 (45.8) | |
| general | 6 (6.1) | 6 (7.6) | 12 (6.8) | |
| nursing | 34 (34.7) | 35 (44.3) | 69 (39.0) | |
| other | 2 (2.0) | 0 (0.0) | 2 (1.1) | |
| nursing facility | 0 (0.0) | 0 (0.0) | 0 (0.0) | |
| etc | 8 (8.2) | 5 (6.3) | 13 (7.3) | 0.48 |
| | Work perio | od (year) | | |
| 5 or less | 18 (18.4) | 22 (27.8) | 40 (22.6) | |
| 5 or more but less than 10 | 30 (30.6) | 22 (27.8) | 52 (29.4) | |
| 10 or more but less than 15 | 32 (32.7) | 18 (22.8) | 50 (28.2) | |
| 15 or more but less than 20 | 12 (12.2) | 12 (15.2) | 24 (13.6) | |
| 20 or more | 6 (6.1) | 5 (6.3) | 11 (6.2) | |
| Positive psychological capital | 61.2 ± 8.0 | 64.0 ± 8.2 | | 0.025* |
| Job stress | 102.2 ± 10.7 | 98.9 ± 11.0 | | 0.047* |
| | | | | |

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

3.3 A Binary Logistic Regression Analysis for Evaluating Related Factors

Among the general characteristics of the subjects, in the case of gender, the size of either group of the two groups was too small to assume and analyze the normal distribution. In addition, general characteristics such as age, marital status, and final education and work characteristics such as work place, labor contract type, and shift type were also found to not satisfy the normal distribution or model suitability. Both job stress and positive psychological capital showed significant group differences in the perceived good health status and perceived bed health status groups. In the case of positive psychological capital, P=0.027<0.05, OR (95% CI) 1.04, and a unit increase in positive psychological capital increased the probability of belonging to the perceived good health status group by 0.04 times. Regarding job stress, P=0.049<0.05, OR (95% CI) 0.97, and the probability of belonging to the perceived good health status group by one unit.

| [Table 3] A binary logistic regression analysis for evaluating related factors participation |
|--|
|--|

| | Perceived health | | | | |
|----------------|------------------|---------|-------------------|---------|--|
| | unhealthy | healthy | OR(95% CI) | P-value | |
| | Age group | (years) | | | |
| < 50 | 2 | 2 | 1 (ref) | | |
| 50 ~ 59 | 36 | 30 | 0.83 (0.11, 6.28) | 0.86 | |
| 60 ~ 69 | 53 | 43 | 0.81 (0.11, 6.00) | 0.94 | |
| > 70 | 7 | 4 | 0.57 (0.06, 5.78) | 0.64 | |
| Married status | | | | | |
| married | 68 | 61 | 1 (ref) | | |
| unmarried | 3 | 3 | 1.12 (0.22, 5.73) | 0.90 | |
| divorced | 6 | 3 | 0.56 (0.13, 2.33) | 0.42 | |
| bereaved | 19 | 10 | 0.59 (0.25, 1.36) | 0.21 | |
| separated | 2 | 2 | 1.12 (0.15, 8.16) | 0.92 | |

| Education | | | | | |
|--------------------------------|------------|----------|--------------------|--------|--|
| uneducated | 5 | 1 | 1 (ref) | | |
| elementary | 2 | 2 | 5.00 (0.27, 91.52) | 0.28 | |
| middle | 19 | 15 | 3.95 (0.42, 37.50) | 0.23 | |
| high | 65 | 54 | 4.15 (0.47, 36.64) | 0.20 | |
| college | 7 | 7 | 5.00 (0.46, 54.51) | 0.19 | |
| graduate | 0 | 0 | | .0.14 | |
| | Occupa | tion | | | |
| care worker | 45 | 44 | 1 (ref) | | |
| caregiver | 53 | 35 | 0.67 (0.37, 1.23) | 0.20 | |
| | Certific | ation | | | |
| care worker | 96 | 77 | 1 (ref) | | |
| nursing assistant | 1 | 1 | 1.25 (0.08, 20.26) | 0.88 | |
| no certification | 1 | 1 | 1.25 (0.08, 20.26) | 0.88 | |
| | Work p | lace | | | |
| university | 48 | 33 | 1 (ref) | | |
| general | 6 | 6 | 1.46 (0.43, 4.90) | 0.55 | |
| nursing | 34 | 35 | 1.50 (0.78, 2.86) | 0.22 | |
| other | 2 | 0 | • | 1.00 | |
| nursing facility | 0 | 0 | • | | |
| etc | 8 | 5 | 0.91 (0.27, 3.02) | 0.88 | |
| | Work perio | d (year) | | | |
| 5 or less | 18 | 22 | 1 (ref) | | |
| 5 or more but less than 10 | 30 | 22 | 0.60 (0.26, 1.38) | 0.23 | |
| 10 or more but less than 15 | 32 | 18 | 0.46 (0.20, 1.08) | 0.07 | |
| 15 or more but less than 20 | 12 | 12 | 0.82 (0.30, 2.56) | 0.70 | |
| 20 or more | 6 | 5 | 0.68 (0.18, 2.61) | 0.58 | |
| Positive psychological capital | 98 | 79 | 1.04(1.01, 1.08) | 0.027* | |
| Job stress | 98 | 79 | 0.97 (0.95, 1.00) | 0.049* | |

OR (95% CI): odds ratio and 95% CI were estimated using univariate logistic model.

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

4. DISCUSSION

Health has become an essential keyword in Korean society, which is experiencing rapid aging and an increasing number of single-person households. According to the World Health Organization, health is not simply a disease or disability. Still, a state of physical, mental, and social well-being, makes it difficult for individual efforts to maintain and promote health. Objective indicators such as life expectancy and prevalence and the health status they feel subjectively regardless of the presence or absence of disease are an essential health criterion. The Organization for Economic Co-operation and Development also compares subjective health status between countries. When comparing the subjective health status of each country announced in 2022, 52.4% of Korea is healthy, followed by 86.4% in the United States, 71.3% in the Netherlands, 70.1% in Spain, 66.8% in Sweden, 65.1% in France, and 64.3% in Germany. It is almost at the bottom of the OECD countries. Only 44.3% of the caregivers who are the subjects of this study recognize that they are healthy, so it is necessary to raise it to 2.4% of Korea's average health status [15]. On the other hand, in Korea, perceived health status is identified in the social survey items every four years. As of 2022, 31.5% of those aged 60 or older perceived themselves as healthy, while 44.8% of participants aged 60 or older in this study perceived themselves as healthy. In addition, in this study, it was confirmed that positive psychological capital and job stress had a significant relationship regardless of whether or not caregivers themselves perceived themselves to be in a healthy state. According to J. A. Kim, J. W. Hang & M. J. Park (2020), as the positive psychological capital of blood center nurses increased by one unit, the odds ratio of the healthy group in subjective health increased significantly by 1.1 times (95% confidence interval (CI): 1.0-1.1), and as job stress increased by one unit, the odds ratio of the healthy group in subjective health increased significantly by 0.9 times [95% confidence interval (CI): 0.8–0.9]. In this study, both the healthy and unhealthful groups of perceived health conditions showed significant results, and regardless of the group, an increase in positive psychological capital by one unit increased the probability of belonging to the perceived good health status by 0.04 times. In the case of job stress, P=0.049<0.05, OR (95% CI) 0.97, and a unit increase in job stress decreased the probability of belonging to the perceived good health status by 3%. This is consistent with the results of a study on the relevance of lowering job stress as positive psychological capital increases [16][17][18][19], suggesting that positive psychological capital and job stress can be important variables in perceived health status.

5. CONCLUSIONS AND SUGGESTIONS

In this study, we tried to find ways to improve the perceived good health status of caregivers by identifying the job stress, perceived health status, and positive psychological capital of caregivers and identifying the correlation between these variables. Increasing one unit of positive psychological capital applied to all groups without distinction according to the perception of the caregiver's perceived good health status resulted in a 0.04-fold increase in the probability of belonging to the perceived good health status. In addition, in the case of job stress, increasing by one unit to P=0.049<0.05, OR (95% CI) 0.97, the probability of belonging to the perceived good health status decreased by 3%. In addition, in an international comparison of the Organization for Economic Co-operation and Development, the level of subjective health status in Korea was low (52.4% on average in 2022 in Korea). Still, the number of caregivers did not reach it (average 44.3% for survey caregivers in 2023). Considering that positive psychological capital is a capacity that can be developed through learning[20], it is necessary to increase subjective health status by developing it. In Korea, the subjective health status is identified in the social survey items every four years. As of 2022, 31.5% of people aged 60 or older perceived themselves as healthy, while 44.8% of participants aged 60 or older in this study recognized that they were healthy. This study is also meaningful in that it was confirmed that social activities need to be actively encouraged at the age of 60 to 69, considering that social activities have a positive effect on health and that there were no studies to compare and discuss differently due to the lack of research on caregivers. It is suggested to study the development and application of various programs to improve the working environment and positive psychological capital that can reduce the job stress of caregivers. Finally, Korean society provides quality care services by improving the perceived health status of caregivers through social support in an era when social care is required.

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