Effect of Psychological Characteristics on Job Performances of Workers at Residential Homes for the Disabled

Kyung-seok Seo*, Sung-Je Cho**

Abstract: The purpose of this research was to analyze the effect of psychological characteristics on job performances of workers at residential homes for the disabled. For the study, a survey was conducted on 170 workers at residential homes for the disabled in Gyeongsangbuk-do (Sangju-si, Andong-si and Yecheon-gun) from the 7th of October to 11th of November, 2016. For the analysis, SPSS WIN 18.0 and Amos 21.0 programs were used to conduct t-test, one-way analysis of variance, correlation analysis and multiple regression analysis at a significance level of 5%. The research results were as follows. First, it was found that the psychological characteristics of workers at residential homes for the disabled vary significantly upon their work loads. Second, the differences in job performances of workers at the residential homes for the disabled with their general characteristics were analyzed; it was revealed that the job performance of the workers varies significantly with their education levels, positions and monthly incomes. Third, the job performance of workers at the residential homes for the disabled was found to be having positive correlation with their psychological characteristics as follows: self-esteem (r=.363, p<.001) and self-efficacy (r=.275, p<.001), while having negative correlation with depression (r=-.267, p<.001). This paper is required to be used as a primary source for political development on the enhancement of the psychological characteristics of workers at residential homes for the disabled.

Keywords: Residential homes for the disabled, workers, psychological characteristics, job performance, social welfare

1. INTRODUCTION

1.1 Necessities for the Research

Workers at the residential social welfare facilities are required to provide the residents the food, clothing and shelter, as well as the rehabilitation services so that they can conduct normal social activities. Thus, socialization can be considered as one of the most important jobs of workers at the residential social welfare facilities, as they not only serve the residents, but also pay special attention to the residents who are likely to be isolated or discriminated in the society [1]. Specifically for workers at the residential homes for the disabled, enhancing the quality of life of the disabled is a critical role besides providing the general services including food, clothing and shelter to the residents. Accordingly, in order to enhance the quality of life of the disabled, the working conditions of the workers at the residential homes for the disabled must be improved. The reason for this is that there is a positive correlation between the working condition and the job performance.
[2]. Furthermore, there are studies that have been reporting the importance of improvement of job performances of the workers at the residential homes for the disabled in the enhancement of the services at the facilities. Thus, in order to raise the level of satisfaction of the residents in the residential homes for the disabled, improvement of service-oriented leadership and service-oriented attitudes are necessary. Therefore, it is argued that raising the level of satisfaction of workers with the facility can improve the service-oriented attitudes and leadership, and ultimately improve the quality of services [3]. Accordingly, the psychological characteristics of workers at the residential homes for the disabled are very important in pursuing the service-oriented leadership and attitudes. For the foregoing reasons, studies have been conducted on the psychological characteristics of workers at the welfare facilities.

A preceding research on the psychological characteristics of workers at the welfare facilities - specifically on how the workers of occupational rehabilitation facilities for the disabled find their work interesting, have potentials to develop and have prospects - reported that the level of job satisfaction of the workers have positive influences on their psychological health [4]. This report implies that the higher the level of satisfaction on the working condition or the institution, the healthier the workers are psychologically. Also, it was revealed that the job stress and depression, psychological traits of workers at the residential homes for the disabled, have negative influences on the empowerment and organizational effectiveness: the higher the level of job stress and depression, the lower the degree of empowerment and organizational effectiveness [5].

Thus, the psychological state of workers at the residential homes for the disabled is considered to be very critical in the empowerment and organizational effectiveness. Furthermore, it was also argued that there are significant correlations between the personal traits of workers at the residential homes for the disabled children and the environmental characteristics, self-efficacy and job satisfaction [6].

Likewise, researches show that the empowerment and organizational effectiveness of residential homes for the disabled are negatively influenced by psychological characteristics of the workers, job stress and depression. Yet, there is a lack of studies on the influences of the psychological characteristics of workers at the residential homes for the disabled on their job performance. Thus, the existing researches are mainly focused on the influence of job satisfaction of workers at the residential homes for the disabled on the quality of life [4], the influence of social and psychological characteristics of workers at the residential homes for the disabled on the organizational effectiveness [5] and the influence of the psychological traits of workers at the residential homes for the disabled children on their job satisfaction [6]. In fact, there are only a small number of existing studies on the general and psychological characteristics on the workers at the residential homes for the disabled.

Accordingly, this study aims to analyze the factors related in considering the importance of psychological characteristics of workers at residential homes for the disabled on their job performances. Therefore, the purpose of this research is to analyze the effects of psychological characteristics of workers at residential homes for the disabled on their job performances.
1.2 Research Questions
The detailed research questions are as follows:
1. How do the psychological characteristics of workers at residential homes for the disabled vary with their general characteristics?
2. How does the level of job performance of workers at residential homes for the disabled varies with their general characteristics?
3. What are the effects of psychological characteristics of workers at residential homes for the disabled on their job performances?

2. Research Method

2.1 Research Target
For this study, a survey was conducted on 170 workers at residential homes for the disabled in Gyeongsangbuk-do (Sangjoo-si, Andong-si and Yecheon-gun) from the 7th of October to 11th of November, 2016. The sample size was calculated using Cohen’s sample size formula on G*Power 3.1, a test power analysis program. At the 5% of significance level, 95% of test power and 0.15 of medium effect power, the minimum sample size was calculated to be 119. Accordingly, from the total number of 200 sets of survey data, the non-responses and unreliable responses were excluded, leaving 170 sets of data for analysis.

2.2 Research Method
Before starting the survey, the survey respondents were informed sufficiently about the purpose and method of completing the survey. The survey was conducted in a form of self-reporting and individual interviews with the respondents.

2.3 Research Tools
The research tools consist of 9 terms on the demographical characteristics, 20 terms on psychological characteristics and 11 terms on the job performance. The detailed classification and evaluation on each variables are as follows:

2.3.1 Demographical Characteristics
The terms developed in Investigation on the Local Social Health [7] were edited and modified to be used as the investigation tool. Questions on the following demographical characteristics of the targets were added on the survey: gender, age, marital status, religion, education level, years of service, position, monthly income and work load.

2.3.2 Psychological Characteristics Scale
The scale for Psychological characteristics of Lim Hyeonjo [8] (2012) was used as the investigation tool. The questions on subfactors of Psychological characteristics consist of 4 terms for Self-efficacy, 10 terms for Self-esteem and 6 terms for Depression. The scale for the survey questions was arranged in Likert’s 5-point scale.

2.3.3 Job Performance Scale
The survey questions origin from Tseng & Fan (2011) and developed by Kim Gyeongsuk (2015), [8] were used to measure the level of job performance. The questions on subfactors consist of 3 terms for efficiency, 3 terms for effectiveness and 5 terms for working condition - total number of 11 terms. The 5-point scale of Likert was used.
2.3.4 Data Processing and Analysis

The collected data were analyzed using SPSSWIN 21.0 program. First, in order to investigate the general characteristics of the worker at residential homes for the disabled, a frequency analysis was conducted. Second, SPSSWIN 18.0 was used to conduct t-test and one way analysis of variance at the significance level of 5%. Third, in order to study the effects of psychological characteristics of the workers on their job performance, correlation analysis and multiple regression analysis were conducted.

2.4 Verification of Reliability

The different methods of verifying reliability are as follows: test-retest method (used to compare the results of using the same measuring tool before and after a certain period of time), alternative-form method and internal consistency method. In this research, Cronbach’s α coefficient was used to analyze the reliability and the detailed research result are on <Table 1>.

| Division                  | Factors                  | Number of Terms | Cronbach’s α |
|--------------------------|--------------------------|-----------------|---------------|
| Psychological characteristics | Self-efficacy             | 4               | .762          |
| Psychological characteristics | Self-esteem              | 10              | .819          |
| Psychological characteristics | Depression              | 6               | .920          |
| Job Performance           | Efficiency                | 3               | .638          |
| Job performance           | Effectiveness             | 3               | .683          |
|                           | Working condition         | 5               | .763          |

Table 1. Verification of reliability of the psychological characteristics and job performance of workers at the residential homes for the disabled

3. Research Results

3.1 General Characteristics of Workers at Residential Homes for the Disabled

The result of investigation on the general characteristics of workers at residential homes for the disabled is as on <Table 2>. The respondents consist of 38.8% of males and 61.2% of females. The proportion of the respondents in each age group is in the following order, 43.5% in ‘30-39’, 34.7% in ‘40-49’, 15.9% in ‘50-59’, 4.7% in ‘less than 30’ and 1.2% in ‘60 or older’. For education level, 58.2% responded ‘junior college graduate’, 26.5% ‘college graduate’, 7.1% ‘grad school graduate or higher’, 5.9% ‘high school graduate’ and 2.4% ‘lower than high school graduate’. Also, 79.4% of the respondents were married, 17.1% were single and 1.8% were both in groups of ‘divorced’ and ‘bereaved’. 46.5% said they believe in ‘no religion’, 24.7% in ‘Buddhism’, 16.5% in ‘Christianity’, 7.8% in ‘others’ and 4.7% in ‘Catholic’. For years of service, 36.5% have worked for ‘1-15 years’, 22.8% for ‘1-5 years’, 21.8% for ‘6-10 years’, 15.5% for ‘16 years or longer’ and 5.9% for ‘less than 1 year’. The majority of the respondents were ‘convalescence supporter / rehabilitation teacher’ (73.9%), followed by ‘nutritionist/cooker/hygienist’ (9.4%), ‘nurse/physical therapist/occupational therapist’ (8.2%), ‘secretary/manager’ (6.5%) and ‘director’ (2.4%). Also, 69.4% said their monthly income is ‘2-3 million won’, 19.4% ‘3-4 million won’, 8.2% ‘2 million won or less’, 19.4% ‘4-5 million won’ and 12.5% ‘5 million won or more’. Regarding the work load, 32.4% of the total responded that they are overloaded with work: 65.3% ‘moderate’, 27.1% ‘overloaded’, 5.3% ‘heavily overloaded’ and 2.4% ‘not very overloaded.’
3.2 Descriptive Statistics on Social Support and Job Performance

3.2.1 Psychological characteristics

The result of descriptive statistics on the psychological characteristics is on <Table 3>. The average for overall psychological characteristics is 3.67: 'Self-esteem' (M=3.66), 'Self-efficacy' (M=3.43) and 'Depression' (M=2.15).

| Division               | N  | Max. | Min. | Ave. | σ   |
|------------------------|----|------|------|------|-----|
| Psychological characteristics | 170 | 2.00 | 5.00 | 3.43 | .71 |
| Self-efficacy          | 170 | 2.40 | 5.00 | 3.66 | .53 |
| Depression             | 170 | 1.00 | 4.83 | 2.15 | .80 |

3.2.2 Job Performance

The result of descriptive statistics on the job performance is on <Table 4>. The average for overall psychological characteristics is 3.38: 'Efficiency' (M=3.47), 'Working condition' (M=3.42) and 'Effectiveness' (M=3.22).

| Division               | N  | Max. | Min. | Ave. | σ   |
|------------------------|----|------|------|------|-----|
| Job Performance        | 170 | 2.33 | 5.00 | 3.47 | .52 |
| Efficiency             | 170 | 2.00 | 5.00 | 3.22 | .52 |
| Working condition      | 170 | 2.00 | 5.00 | 3.42 | .54 |
| Job performance        | 170 | 2.36 | 4.91 | 3.38 | .44 |
3.3 Validation of Research Questions

3.3.1 Differences in the psychological characteristics of the workers at residential homes for the disabled due to their general characteristics

The differences in the psychological characteristics of the workers at residential homes for the disabled due to their general characteristics were investigated and the result thereof is as on <Table 5>.

position and monthly income were found to be not influential at the significance level of 5%. The workers who reported to be overloaded with work (M=3.44) had higher psychological characteristics (t=-3.977, p<.001) than the workers who reported to be having moderate work load (M=3.79).

Table 5. Descriptive statistics on psychological characteristics

| Factor                          | N  | Ave. | o  | t/F  | p   | Scheffe |
|---------------------------------|----|------|----|------|-----|---------|
| Gender                          |    |      |    |      |     |         |
| Male                            | 66 | 3.67 | .58| -0.75| 940 | -       |
| Female                          | 104| 3.68 | .53|      |     |         |
| Age Group                       |    |      |    |      |     |         |
| 39 or younger                   | 82 | 3.66 | .55|      |     |         |
| 40-49                           | 59 | 3.65 | .55| .709 | 493 | -       |
| 50 or older                     | 29 | 3.78 | .53|      |     |         |
| Education Level                 |    |      |    |      |     |         |
| Lower than high school graduate | 14 | 3.64 | .72| 2.989| 093 | -       |
| Junior college graduate         | 99 | 3.60 | .50|      |     |         |
| College graduate or higher      | 57 | 3.82 | .57|      |     |         |
| Marital Status                  |    |      |    |      |     |         |
| Married                         | 141| 3.67 | .54| -238 | 812 | -       |
| Religion                        |    |      |    |      |     |         |
| No religion                     | 79 | 3.68 | .57|      |     |         |
| Christianity                    | 28 | 3.73 | .56|      |     |         |
| Buddhism                        | 42 | 3.68 | .51|      |     |         |
| Others                          | 21 | 3.57 | .54|      |     |         |
| Years of Service                |    |      |    |      |     |         |
| Less than 5 year                | 48 | 3.80 | .54|      |     |         |
| 6-10 years                      | 37 | 3.65 | .57| 1.782| 171 | -       |
| 11 years or longer              | 85 | 3.62 | .54|      |     |         |
| Position                        |    |      |    |      |     |         |
| Director/Secretary/manager       | 15 | 3.78 | .61|      |     |         |
| Nurse/physical therapist/occupational therapist | 14 | 3.80 | .55| 911 | 437 | -       |
| Nutritionist/cooker/hygienist   | 16 | 3.79 | .64|      |     |         |
| Convalescence supporter/rehabilitation teacher | 125 | 3.63 | .53|    | |         |
| Monthly Income                  |    |      |    |      |     |         |
| Less than 3 million won         | 132| 3.66 | .55| .820 | 408 | -       |
| 3 million won or more           | 38 | 3.74 | .55|      |     |         |
| Work Load                       |    |      |    |      |     |         |
| Overload                        | 55 | 3.44 | .56| -3.77| .001| -       |
| Moderate                        | 115| 3.79 | .51|      |     |         |

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

The result shows that the psychological characteristics of workers at residential homes for the disabled varies significantly with their work load, whereas the gender, age, education level, marital status, religion, years of service,
3.3.2 Differences in the level of job performances of the workers at residential homes for the disabled due to their general characteristics

The differences in the job performances of the workers at residential homes for the disabled due to their general characteristics were investigated and the result thereof is as on <Table 6>.

Table 6. Descriptive statistics on job performance

| Division          | N  | Ave | σ  | t/F | p     | Sch en   |
|-------------------|----|-----|----|-----|-------|----------|
| Gender            |    |     |    |     |       |          |
| Male              | 66 | 3.40 | .47 | .494 | .022  | -        |
| Female            | 104| 3.36 | .42 |     |       |          |
| Age Group         |    |     |    |     |       |          |
| 39 or younger     | 82 | 3.30 | .40 |     |       |          |
| 40-49             | 59 | 3.41 | .43 | 2.989 | .053  | -        |
| 50 or older       | 29 | 3.52 | .49 |     |       |          |
| Education Level   |    |     |    |     |       |          |
| Lower than high school graduate | 14 | 3.48 | .52 | 2.989 | .053  | -        |
| Junior college graduate | 99 | 3.29 | .39 |     |       |          |
| College graduate or higher | 57 | 3.51 | .48 |     |       |          |
| Marital Status    |    |     |    |     |       |          |
| Married           | 141| 3.40 | .45 | 1.656 | .100  | -        |
| Single            | 29 | 3.25 | .40 |     |       |          |
| Religion          |    |     |    |     |       |          |
| No religion       | 79 | 3.31 | .44 | 1.188 | .316  | -        |
| Christian         | 28 | 3.44 | .36 |     |       |          |
| Judaism           | 42 | 3.42 | .41 |     |       |          |
| Others            | 21 | 3.47 | .59 |     |       |          |
| Years of Service  |    |     |    |     |       |          |
| Less than 5 year  | 48 | 3.43 | .45 |     |       |          |
| 6-10 years        | 37 | 3.29 | .44 | 2.992 | .373  | -        |
| 11 years or longer| 85 | 3.38 | .44 |     |       |          |
| Position          |    |     |    |     |       |          |
| Director/Secretary | 15 | 3.70 | .57 | 4.110 | .007  | -        |
| Nurse/physical therapist/occupational therapist | 14 | 3.31 | .39 |      |       |          |
| Nutritionist/cook/cooker/hygienist | 16 | 3.53 | .51 |      |       |          |
| Convalescence supporter/rehabilitation teacher | 125 | 3.33 | .40 |      |       |          |
| Monthly Income    |    |     |    |     |       |          |
| Less than 3 million won | 132 | 3.33 | .41 | -2.678 | .008  | -        |
| 3 million won or more | 38 | 3.54 | .50 |      |       |          |
| Work Load         |    |     |    |     |       |          |
| Overload          | 55 | 3.32 | .50 | 1.992 | .008  | -        |
| Moderate          | 115| 3.37 | .41 |      |       |          |

** p<.01

The result shows that the job performance of workers at residential homes for the disabled varies significantly with their education level, position and monthly income, whereas the gender, age, marital status, religion, years of service and work load were found to be not influential at the significance level of 5%.

The level of job performance were found to be higher for education level with college graduate of higher (M=3.51), followed by those with less than high school graduate (M=3.48) and junior college graduate (M=3.29) (F=5.251, p<.01). Also, level of job performance were found to be higher for director/Secretary/manager (M=3.70), followed by nutritionist/cook/cooker/hygienist (M=3.53), convalescence supporter/rehabilitation teacher (M=3.33) and nurse/physical therapist/occupational therapist.
(M=3.31) (F=4.190, p<.01). Lastly, workers with monthly income of less than 3 million won (M=3.33) showed higher level of job performances than those with income of 3 million won or higher (M=3.54) (t=−2.678, p<.001).

3.3.3 Effects of the psychological characteristics of the workers at residential homes for the disabled on their job performances

The correlation between psychological characteristics of the workers at residential homes for the disabled on their job performances was investigated and the result thereof is as on Table 7.

Table 7. Correlation between psychological characteristics of the workers at residential homes for the disabled on their job performances

| Division                | Psychological Characteristics | Job Performance |
|-------------------------|------------------------------|-----------------|
|                         | Efficacy | Depression | Total | Efficacy | Depression | Total |
| Psychological Characteristics | Self-efficacy | 1 | 1 | 1 | |
|                         | Self-esteem | 507 | 1 | 1 | |
|                         | Depression | -3.84 | -366 | 1 | |
| Psychological Characteristics | 762 | 1 | 1 | 1 | |

Job Performance

| Effective | Working condition | Job Performance |
|-----------|-------------------|-----------------|
| 154 | -196 | 292 |
| 340 | -276 | 297 |
| -182 | -141 | -293 |
| 285 | 247 | 349 |
| 1 | 549 | 1 |
| 1 | 578 | 1 |
| 1 | 819 | 1 |
| 1 | 891 | 1 |

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

The result shows that the job performance of workers in resident homes for the disabled has positive correlations with self-esteem (r=.363, p<.001) and self-efficacy (r=.275, p<.001), and has negative correlation with depression (r=−.267, p<.001). Specifically, the efficiency and working condition factors of the job performance showed positive correlations with the self-efficacy and self-esteem factors of psychological characteristics and showed negative correlation with depression, while the effectiveness factor of the job performance showed significant positive correlation with self-efficacy and self-esteem factors only.

4. CONCLUSION

The purpose of this study was to investigate the effects of psychological characteristics on the workers at the residential homes for the disabled on their job performance. The results of the research are as follows.

Firstly, the differences in the psychological characteristics of workers at residential homes for the disabled were investigated. As a result, the psychological characteristics of the workers varied significantly depending on their work load, where as their gender, age, education level, marital status, religion, years of service, position and monthly income were found to be not influential at the significance level of 5%. The workers who reported to be overloaded with work (M=3.44) had higher psychological characteristics than the workers who reported to be having moderate work load (M=3.79) (t=−3.977, p<.001). Such result is in accordance with a previous study [10], which reported that there is a backward correlation between delinquency of children and exhaustion of
workers and concluded that the exhaustion can be prevented when the works of each worker is clearly divided according to the work analysis on the facility of social workers, and thus the sense of responsibility and autonomy of the workers are improved. The result implies that workers at local children center can find psychological stability when they feel a sense of responsibility and autonomy with their works.

Secondly, the differences in level of job performance of workers at residential homes for the disabled were investigated. As a result, it was found that the job performance of workers at residential homes for the disabled varies significantly with their education level, position and monthly income, whereas the gender, age, marital status, religion, years of service and work load were found to be not influential at the significance level of 5%. The level of job performance were found to be higher for education level with college graduate of higher (M=3.51), followed by those with less than high school graduate (M=3.48) and junior college graduate (M=3.29) (F=5.251, p<.01). Also, level of job performance were found to be higher for director/Secretary/manager (M=3.70), followed by nutritionist/cooker/hygienist (M=3.53), convalescence supporter/rehabilitation teacher (M=3.33) and nurse/physical therapist/occupational therapist (M=3.31) (F=4.190, p<.01). Lastly, workers with monthly income of less than 3 million won (M=3.33) showed higher level of job performances than those with income of 3 million won or higher (M=3.54) (t=-2.678, p<.001). Such result is in accordance with a previous study [11], which reported that the wage, promotion and years of services of worker at welfare facilities for the elderly have significant influences and resulted that the level of job satisfaction was the highest for nutritionists, secretaries and managers - except for 1 director and 1 doctor - and also high for nurses (physical or rehabilitation therapists), who tend to have the expertise and more direct interactions with the elderly, while the level of job satisfaction is low for cooks, drivers/guards and officers. The result indicates that the level of job performance varies with educational levels, positions and monthly incomes of workers.

Thirdly, the correlation between psychological characteristics and job performance of workers at residential homes for the disabled was analyzed. As a result, it was revealed that the job performance of workers in resident homes for the disabled has positive correlations with self-esteem (r=.363, p<.001) and self-efficacy (r=.275, p<.001), and has negative correlation with depression (r=-.267, p<.001). Specifically, the efficiency and working condition factors of the job performance showed positive correlations with the self-efficacy and self-esteem factors of psychological characteristics and showed negative correlation with depression, while the effectiveness factor of the job performance showed significant positive correlation with self-efficacy and self-esteem factors only. Such result corresponds to a study [10], which showed that the exhaustion of workers will be prevented when the works of each worker is clearly divided according to the work analysis on the facility of social workers, and thus the sense of responsibility and autonomy of the workers are improved. It also agrees with a study [12], which from the correlation between working condition, job satisfaction and self-esteem, showed that high autonomy in working enhances the level of job satisfaction.
and self-esteem, whereas low autonomy in working causes stronger intention of changing job.

There is a necessity for further researches on the influences of emotional labor of workers at the residential homes for the disabled on the quality of their services.

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Author Biography

Kyung-seok Seo  [Lifetime member]

• Feb. 2002 : Graduate School of Social Welfare, Daegu University (Master of Social Welfare)
• Feb. 2008 : Graduated from Catholic University of Daegu Graduate School of Social Welfare Ph.D.
• Sept. 2016 ~ Present : Ph.D program at Dongbang Graduate School of Culture; Department of Education

<Research Interests> Information, Education, Social Welfare,

Sung-Je Cho  [Regular Member]

• February 1977 : Hongik University; Department of Electric Computing (Ph.D in Natural Science)
• March 2007 ~ Present : Professor of Dongbang Graduate School; Department of Education

<Research Interests> Culture contents, multimedia education, information security, database