# The Effect of School Nutritionists' Self-efficacy and Ego-resilience on Their Organizational Commitment

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### Abstract

This study examined the effects of nutritionists' self-efficacy and ego-resilience on organizational commitment. Surveys were conducted against 108 school nutritionists in elementary, middle, and high schools in K-city and U-city from April 15 to April 30, 2019. Self-efficacy, ego-resilience, and organizational commitment scales were used as research tools, and PASW 22.0 for Windows was used for data processing. The study's results were as follows: First, self-efficacy, ego-resilience, and organizational commitment as perceived by school nutritionists were found to have significant correlations. Second, self-efficacy and ego-resilience perceived by school nutritionists affected organizational commitment. This study is important because it provides political measures and suggestions regarding school nutritionists, who are nutrition experts that can support healthy school life, by verifying how the self-efficacy and ego-resilience of nutritionists can improve organizational commitment levels.

Keywords: Self-efficacy, Ego-resilience, Organizational commitment, Nutritionist, School

### 1. Introduction

Because adolescents are transitioning from childhood to adulthood, they have many physical developmental characteristics. As it is an essential time for many physical changes, they must maintain a balanced nutritional state based on good dietary habits [1]. In addition, it is necessary to form desirable dietary habits and a balanced nutritional state during adolescence because habits formed in adolescence are challenging to change once you reach adulthood [2]. However, living standards in Korea have changed recently with the changes in family structures, the social participation of women, and the increase in national income, bringing about the emergence of convenience-focused culinary culture. This resulted in poor dietary habits in adolescents, such as increased consumption of processed or fast foods and indiscriminate and excessive consumption of nutrients, leading to a serious nutritional imbalance [3].

In addition to these socio-environmental characteristics, expectations for nutrition education with professional nutritional information are increasing in the face of an indiscriminate supply of various health foods through mass media and the flood of unaccounted health-related information. Since the School Meals Act was enacted in Korea in 1981, school meals were provided in all elementary, middle, and high schools nationwide

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until 2003, achieving a quantitative growth of school meals. As the importance of school meals has been highlighted with the expansion of school meals, there has also been an increase in the consumers' interests and demands regarding the overall quality of school meals and nutrition management, including services related to school meals, as well as ingredients and foods provided in the school meals. There can be social conflicts between workers in different positions within the school nutritionist organization due to differences in perception. Such conflicts within the organization become a factor of job stress for the members and can be an important variable that can affect the behavior and attitude of workers in the organization.

On the other hand, one way to overcome this problem is through self-efficacy, as self-efficacy acts as a variable that significantly affects problem-solving when faced with a new environment. Existing studies show that when conflict within the organization gets bigger, it harms organizational commitment, and improving self-efficacy has meaningful relations in overcoming such negative effects [4][5].

Organizational commitment refers to the affection for the workplace, the psychological attachment the member feels toward the organization, or the positive attitude and tendency to fulfill organizational goals [6][7][8]. Recent studies have been accumulating on the organizational commitment of teachers in schools [9][10][11][12]. Therefore, it is necessary to review the variables that affect the organizational commitment of nutritionists and improve the work environment to improve the organizational commitment of school nutritionists. Different variables have been suggested to influence the organizational commitment of nutritionists positively. Still, above all, the concept of ego-resilience as an internal variable of the nutritionist has emerged as a new perspective for explaining and analyzing the commitment behavior of teachers [13][14]. Recently, there have been various studies on egoresilience as a factor that affects organizational commitment in public servants and education [15][16][17]. In [15]'s study, ego-resilience was a mediating variable between the job stress of regional public servants and their organizational commitment, positively affecting organizational commitment. Therefore, this study seeks to analyze the effect of the relationship between self-efficacy, ego-resilience, and organizational commitment through existing studies. The following research questions were selected to achieve the purpose of the study.

The following research questions were selected to achieve the purpose of the study.

First, what is the relationship between self-efficacy, ego-resilience, and organizational commitment of school nutritionists?

Second, how do school nutritionists' self-efficacy and ego-resilience affect their organizational commitment?

### 2. Research method

#### 2.1. Research subject

Surveys were conducted against 121 school nutritionists in elementary, middle, and high schools in K-city and U-city from April 15 to April 30, 2019. After excluding negligent responses, 108 questionnaires were processed statistically and used for analysis.

#### 2.1.1. General background of research subjects

Upon examining the general background of the research subjects, the highest percentage of nutritionists in their 40s was 59 respondents (54.2%). In experience, the highest was more

than five years and less than ten years, with 42 respondents (38.4%). The highest school type was an elementary school with 80 nutritionists (74.2%), 66 respondents worked in schools with more than  $5 \sim$  less than ten workers cooking (61.1%), and 58 respondents worked in schools with less than 1000 students who were provided meals (53.2%).

#### 2.2. Research tool

#### 1) Self-efficacy

In this study, the nutritionists' self-efficacy scale was completed with references to existing studies [18]. This scale consists of 25 questions on the sub-factors of general and personal self-efficacy. The reliability coefficient of the self-efficacy scale was .92, total self-efficacy was .91, general self-efficacy was .91, and personal self-efficacy was .95.

### 2) Ego-resilience

The ego-resilience scale of [19] was used to measure the ego-resilience of nutritionists. The scale consists of 29 questions on the following four sub-factors: confidence, the efficiency of interpersonal relations, optimistic attitude, and anger control. In the reliability coefficient of the ego-resilience scale, total ego-resilience was .64, confidence was .86, the efficiency of interpersonal relations was .85, the optimistic attitude was .84, and anger control was .64.

# 3) Organizational commitment

This study uses the questionnaire modified and translated by [20] to measure organizational commitment. The questionnaire consists of 14 questions, four of which are on affective commitment, five on continuance commitment, and five on normative commitment. The reliability coefficient of the organizational commitment measurement tool was .87, an affective commitment was .77, a continuance commitment was .60, and a normative commitment was .77.

# 2.3. Research procedure

A preliminary survey was conducted against 15 school nutritionists from April 1 to April 3, 2019, to modify and supplement inappropriate questions. This survey was distributed via email and institution visits from April 15 to April 30, 2019. Questionnaires were collected from 108 school nutritionists for final analysis.

# 2.4. Data analysis

From the collected data, frequency and percentiles were first calculated to examine the demographic characteristics of research subjects and the reliability of the research tools was calculated using Cronbach's accoefficient. Correlation analysis was performed to investigate the correlation between variables, and the effect of each variable was examined through multiple regression analysis.

#### 2.5. Research results

This study investigated the relationship between self-efficacy and ego-resilience perceived by nutritionists and organizational commitment. The research results for each research question are as follows.

# 2.5.1. correlation between the self-efficacy, ego-resilience, and organizational commitment of school nutritionists

The results of analyzing the relationship between school nutritionists' self-efficacy, egoresilience, and organizational commitment are shown in [Table 1].

Table 1. Correlation between self-efficacy, ego-resilience, and organizational commitment

Variable	Self-efficacy	Ego-resilience	Organizational commitment	
Self-efficacy	1			
Ego-resilience	.23**	1		
Organizational commitment	.60**	.45**	1	
M	3.38	3.71	3.51	
SD	.76	.54	.58	

<sup>\*\*</sup>p<.01

The correlation coefficient between self-efficacy and organizational commitment was r=.60(p<.01), and the correlation coefficient between ego-resilience and organizational commitment was r=.45(p<.01). The correlation coefficient between self-efficacy and ego-resilience was r=.23(p<.01). Significant positive correlations were found between all variables.

# 2.5.2. effect of school nutritionists' self-efficacy and ego-resilience on organizational commitment

Stepwise regression analysis examined the effect of school nutritionists' self-efficacy and ego-resilience on organizational commitment. Before the regression analysis, the Durbin-Watson value, confirming residual independence, was 1.84, close to 2. The result of the VIF value, confirming multi-collinearity, was 1.00~1.09, which is less than 10. The results of the stepwise regression analysis are shown in [Table 2].

Table 2 Relative effects between self-efficacy, ego-resilience, and organizational commitment

Model	Independent variable	В	β	t	R2	R2 change	F
1	(Constant)	1.95		13.29			119.08***
	Self-efficacy	.46	.60	10.91***	.36	.36	
2	(Constant)	.82		3.66			90.94***
	Self-efficacy	.40	.52	10.09***	.46	.10	
	Ego-resilience	.36	.33	6.38***			

<sup>\*\*</sup>p<.01, \*\*\*p<.001

As shown in the results in [Table 2], in model 1, the effect of self-efficacy ( $\beta$ =.60) on organizational commitment was 36%. Self-efficacy had the largest effect when comparing self-efficacy ( $\beta$ =.52) and ego-resilience ( $\beta$ =.33) with the standardized coefficient. This additional model 2 showed an explanatory power of 46%, an increase of 10%.

### 3. Conclusion

This study aimed to verify the relationship between school nutritionists' self-efficacy, egoresilience, and organizational commitment and analyze the effect of self-efficacy and egoresilience on organizational commitment. The following is a discussion of the results of this study focused on the research questions.

First, upon analyzing the correlation between school nutritionists' self-efficacy and organizational commitment, there was a significant positive correlation between self-efficacy and organizational commitment. [10] studied the relationship between teachers' self-efficacy and empowerment to organizational commitment, where self-efficacy was found to have a significant positive relationship with organizational commitment. Such results demonstrate that, unlike other educational institutions or organizations, organizations with only a small number of members are characterized by intimate bonds between the members, and the role of self-efficacy is vital in leading the organization as it exerts its strengths through values and educational philosophies [21]. In addition, school nutritionists' ego-resilience and organizational commitment were found to have a significant positive correlation, and this implies that the higher the ego-resilience, the higher the perception of organizational commitment. These results are consistent with the study of [22], which analyzed the effect of teachers' ego-resilience and organizational commitment on happiness. Teachers' egoresilience allows them to assume positive attitudes appropriate for different stress factors in their working environment, cope well with impulsive or chronic stress situations, and recover quickly from trauma [23][24]. This enables them to overcome problems related to their organization, as ego-resilience directly affects their desire for positive resolution [17][25].

Second, upon investigating the effect of school nutritionists' self-efficacy and egoresilience on their organizational commitment, self-efficacy was found to directly affect organizational commitment with an explanatory power of 36%. Nutritionists with high selfefficacy recognize the value of their members and inspire creativity to induct voluntary participation and devotion of the members, as well as increase organizational effectiveness by improving the sense of calling and responsibility [26][27]. These results will increase the nutritionists' emotional attachment to the organization, their understanding of calling, and their level of organizational commitment. Organizational commitment was improved even further with the addition of ego-resilience in the inner and psychological aspects of the nutritionist, along with their self-efficacy. These results support the existing studies [13][25] on ego-resilience and organizational commitment. Existing studies argue that teachers with high ego resilience tend to feel more confident and competent in various problem situations or complex interpersonal relationships [28], leading to excellent problem-solving and communication skills belowand directly affecting adaptability and commitmentbelow. Such studies provide a solid basis for explaining the results of this study, where ego-resilience and organizational commitment have significant effects. Given that nutritionists with high egoresilience can adapt to and control stressful situations they face, it can be expected that nutritionists with high ego-resilience will have a greater level of coping to understand the stress as a challenge, rather than perceiving it negatively and control it positively, even if they encounter difficulties due to simultaneous demands, which is a characteristic common for their job.

Such results examine the effect of school nutritionists' self-efficacy and ego-resilience on organizational commitment. The nutritionist's organizational commitment is considered an essential factor in exhibiting expertise to support nutritional education and healthy school life for students. This study is significant because it identifies relationships between variables that

increase organizational commitment and provides implications of social and political directions for developing plans to support this.

Based on the results of this study, the following limitations can be suggested.

First, research subjects in this study were limited to K and U cities, so its results cannot be generalized to nutritionists across the country. Subsequent studies will be required for a more in-depth investigation into the organizational commitment of nutritionists across Korea.

Third, subsequent studies are necessary to analyze organizational commitment, considering the organizational environment, the characteristics and factors of the members, and the distinctiveness of schools in particular situations, and to investigate the effects and relationship of other variables to support positive organizational commitment.

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