



MAKÜ

SAĞLIK BİLİMLERİNDE GÜNCEL YAKLAŞIMLAR

CURRENT PERSPECTIVES ON  
HEALTH SCIENCES

Research Article

## Effect of academic self-sufficiency on vocational motivation levels of nursing students

Hemşirelik öğrencilerinin akademik öz yeterliliklerinin mesleki güdülenme düzeylerine etkisi

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Received 04.11.2022

Accepted 22.11.2022

Published Online 31.12.2022

Article Code CPHS2022-3(3)-3

### Keywords

academic self-sufficiency  
success  
motivation  
nurse

### Anahtar kelimeler

akademik öz-yeterlilik  
başarı  
motivasyon  
hemşire

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### Abstract

**Aim:** Self-sufficiency is the self-perception of the individual. This perception can be coping with various situations and accomplishing an activity. Motivation is one of the most important factors affecting human behavior. Our study aimed to evaluate the effect of academic self-sufficiency of student nurses on vocational motivation levels. **Materials and Methods:** We designed as a cross-sectional study. We applied the academic self-efficacy scale (ASES), motivation resources and problems scale, and sociodemographic scale to participants. **Results:** 289 people participated in our study. The mean age was  $20.5 \pm 2.21$  years. The mean of academic self-efficacy was  $16.2 \pm 3.47$ . The motivation resources and scale of problems mean was  $3.5 \pm 0.54$ . The correlation coefficient between the two scales was  $r: -0.244$ , and in the regression analysis, we observed that ASES affected MRPS. ( $R^2: 0.06$ , Durbin-Watson: 1.9,  $f: 17.1$  and  $p < 0.001$ ). **Conclusion:** Nursing students' MRPS and ASES means were moderate. ASES and MRPS were found to be affected by several variables. In addition, ASES affected MRPS, and the relationship between ASES and MRPS was negatively correlated. To increase the professional motivation levels of the students, we recommended to increase the clinical field and laboratory applications.

### Öz

**Amaç:** Çalışmamızın amacı öğrenci hemşirelerin akademik öz yeterliliklerinin mesleki motivasyon düzeylerine etkisini değerlendirmektir. **Gereç ve Yöntem:** Araştırma kesitsel bir araştırma olarak tasarlandı. Katılımcılara akademik öz-yeterlilik ölçeği (ASES), motivasyon kaynakları ve sorunları ölçeği (MRPS) ve sosyodemografik ölçek uygulandı. **Bulgular:** Çalışmamıza 289 kişi katıldı. Yaş ortalaması  $20,5 \pm 2,21$  yıl idi. Akademik öz yeterlilik ortalaması  $16,3 \pm 3,47$ 'dir. Motivasyon kaynakları ve problem ölçeği ortalaması  $3,6 \pm 0,54$  idi. İki ölçek arasındaki korelasyon katsayısı  $r: -0,244$  ve regresyon analizinde ASES'in MRPS'yi etkilediği görüldü. ( $R^2: 0.06$ , Durbin-Watson: 1.9,  $f: 17.1$  ve  $p < 0.001$ ). **Sonuç:** Hemşirelik öğrencilerinin MRPS ve ASES ortalamaları orta düzeydeydi. Hem ASES hem de MRPS'nin çeşitli değişkenlerden etkilendiği bulundu. Ayrıca ASES'in MRPS'yi etkilediği ve aralarındaki ilişkinin negatif yönlü olduğu bulundu. Hem akademik öz yeterlilik hem de mesleki güdülenme düzeylerinin yükseltilmesi için klinik saha ve laboratuvar uygulamalarının artırılması önerilmektedir.

To cite this article:

Ülgen H, Köksoy S. Effect of academic self-sufficiency on vocational motivation levels of nursing students. Curr Perspect Health Sci. 2022;3(3):109-114.

## INTRODUCTION

Self-efficacy is a person's belief in himself to perform a behavior (1). Academic self-efficacy is the belief in oneself to complete an academic task (2). The quality of education life of university students is related to their academic self-efficacy (3). The previous study suggested that the academic self-efficacy of nursing students changed over time (4). Nursing students experience various problems during their education process. These problems were dislike of the profession, poor practice, stressors created by the clinical environment, and communication problems (5, 6, 7). Motivation plays a crucial role in solving these problems. That is also very crucial in educational studies (8, 9). Studies have shown that students with high intrinsic motivation are more successful (10,11, 12).

It is crucial to train nurses who do their job lovingly and willingly. For this reason, we decided to determine the effect of the academic self-efficacy of student nurses on their professional motivation levels. In the literature, we observed that original studies examining the impact of academic self-efficacy of nurse students on their professional motivation levels are limited. It is crucial to fill this gap. Therefore, our study aims to determine the effect of the academic self-efficacy of student nurses on their professional motivation levels.

## MATERIALS AND METHODS

### Place of Study and Participant

This research was conducted on nursing students at Burdur Mehmet Akif Ersoy University. A total of 589 nursing students were studying in this department.

### Inclusion-Exclusion Criteria for The Study

This research had only one participant criterion. This criterion was determined as becoming a nursing undergraduate student.

### Study Design and Sample Size

This research was designed as a cross-sectional study. The sample was calculated using power analysis (Effect size: 0.5,  $\alpha$  err: 0.05, and power: 0.80) (12). A total of 4 classes and a minimum of 192 people 48 people in each group) were calculated.

### Data Collection Form

This form consists of three parts. These sections were sociodemographic form, academic self-efficacy scale, and motivation's resources and problems scale.

**Sociodemographic Form:** We created this part by researching the literature.

**Academic Self-Efficacy Scale (ASES):** This scale is a Likert scale consisting of 7 items total. The internal consistency of the scale is 0.79. A score between 7 points and 28 points is taken from the scale. A high score means a high level of academic self-efficacy (13).

**Motivation's Resources and Problems Scale (MRPS):** This Likert scale consists of 24 items and three sub-dimensions (intrinsic, extrinsic, and negative motivation). The internal consistency of the scale is 0.82. A high score means a high level of MRPS (8).  
Ethics Approval and Informed Consent

We obtained Ethics approval from Burdur Mehmet Akif Ersoy University Non-Interventional Clinical Research Ethics Committee (2019-45) and necessary permission from the relevant public institution. Permission for the ASES and MRPS scales was obtained from the authors via e-mail. We read the voluntary consent form before the participant filled in the parts related to the scale. Later the participant filled out the entire form voluntarily. We followed Declaration of Helsinki during the data collection.

### Statistical Analysis

The data were analyzed with SPSS (version 22.0, SPSS Inc., Chicago, IL). The results were expressed as n, %, mean  $\pm$  standard deviation ( $\bar{x} \pm SD$ ). The data were analyzed by student's t-test (t) and ANOVA test (f). Intragroup statistical differences were determined by Posthoc/Tukey lettered, and there is no statistical difference between the same letters ( $p > 0.05$ ). There was a statistical difference between different letters ( $p < 0.05$ ). Differences were considered statistically significant for  $p < 0.05$  values.

## RESULTS

A total of 289 people participated in our research. Eighteen people who filled in the data form incompletely were not included in the sample. The mean age of the participants was  $20.5 \pm 2.21$  years.

ASES score was 16.2±3.47 (min:7; max:28). MRPS score was 3.5±0.54 p (min: 2.13; max: 6.33). The difference between gender and graduated high school variables were statistically significant in ASES (respectively: p<0.03; p<0.02) (Table 1).

The education class, department's willingness to choose, reason for choosing the department, desire to change department and desire to education another department were found to be statistically significant in MRPS (p<0.05) (Table 2).

**Table 1.** The descriptive and comparative analysis of participants

Variable	n	%	ASES		MRPS	
			X±SD	Test/p	X±SD	Test/p
<b>Gender</b>	Male	72	26.6	15.2±3.22	t:0.03	3.5±0.46
	Female	199	73.4	16.6±3.47		3.5±0.57
<b>Marital status</b>	Married	7	2.6	17.7±6.92	t:0.26	3.2±0.58
	Single	264	97.4	16.2±3.34		3.5±0.54
<b>Mother's education</b>	Literate	21	7.7	16.2±3.95	f:0.88	3.6±0.45
	Primary	145	53.5	16.2±3.41		3.5±0.5
	Secondary	65	24	16.0±3.36		3.5±0.55
	High	34	12.5	16.5±3.55		3.6±0.74
<b>Father's education</b>	Literate	9	3.3	19.1±4.48	f:0.08	3.5±0.46
	Primary	98	36.2	16.5±3.37		3.5±0.48
	Secondary	91	33.6	15.9±3.45		3.5±0.54
	High	63	23.2	16.0±3.17		3.6±0.55
<b>Mother</b>	Working	62	22.5	16.6±3.37	t:0.29	3.4±0.51
	No working	209	76.8	16.1±3.44		3.5±0.55
<b>Father</b>	Working	216	79.3	16.1±3.43	t:0.45	3.56±0.53
	No working	55	19.9	16.5±3.61		3.56±0.57
<b>Income</b>	Balanced	196	72.3	16.2±3.36	f:0.08	3.5±0.55
	Low income	47	17.3	16.8±3.64		3.5±0.51
	High income	28	10.3	14.9±3.67		3.3±0.44
<b>Working of participant</b>	Working	24	8.9	17.2±3.2	t:0.16	3.5±0.6
	No working	247	91.1	16.1±3.48		3.5±0.54
<b>Graduated high school</b>	Normal high school	27	10	17±3.74 <sup>a</sup>	f:0.02	3.4±0.44
	Science	183	67.5	16.4±3.25 <sup>a</sup>		3.5±0.54
	Health	36	13.3	14.6±3.74 <sup>b</sup>		3.6±0.63
	Other	25	9.2	16.7±3.73 <sup>b</sup>		3.6±0.47

n: participant, %: participant percentage, X±SD: Mean±standard deviation, t: student t test, f: ANOVA, ASES: Academic Self-Efficacy Scale MRPS: Motivation's Resources and Problems Scale.

**Table 2.** Descriptive analysis of participants

Variable	n	%	ASES		MRPS	
			X±SD	Test/p	X±SD	Test/p
<b>Education class</b>	1th	68	25.1	16.5±3.24	f:0.07	3.7±0.50 <sup>a</sup>
	2nd	59	21.8	16.8±3.46		3.6±0.62 <sup>a</sup>
	3th	71	26.2	16.3±3.56		3.5±0.51 <sup>ab</sup>
	4th	73	26.9	15.3±3.46		3.3±0.46 <sup>a</sup>
<b>Department's willingness to choose</b>	Yes	161	59.3	16±3.2	f:0.25	3.6±0.56 <sup>a</sup>
	No	50	18.5	17±4.16		3.2±0.44 <sup>b</sup>
	Undecided	60	22.2	16.1±3.46		3.4±0.42 <sup>a</sup>
<b>Reason for deciding on the department</b>	Loving profession	84	31	15.9±3.43	f:0.27	3.8±0.58 <sup>a</sup>
	Easy job finding	131	48.3	16.4±3.58		3.4±0.47 <sup>b</sup>
	Family decision	36	13.3	15.6±3.76		3.3±0.53 <sup>b</sup>
	Insufficient exam score	20	7.4	17.3±1.63		3.4±0.49 <sup>a</sup>
<b>Desire to change department</b>	Yes	40	14.8	15.6±3.4	f:0.19	3.2±0.48 <sup>a</sup>
	No	175	64.6	16.2±3.49		3.6±0.55 <sup>b</sup>
	Undecided	56	20.7	16.8±3.36		3.4±0.44 <sup>a</sup>
<b>Desire to education another department</b>	Yes	99	36.5	15.9±3.4	f:0.51	3.4±0.52 <sup>a</sup>
	No	126	46.5	16.5±3.53		3.6±0.56 <sup>b</sup>
	Undecided	46	17	16.2±3.43		3.6±0.50 <sup>ab</sup>
<b>Type of hospital</b>	Public hospital	197	72.7	16.5±3.38	f:0.06	3.5±0.51
	Private hospital	6	2.2	18±2.83		3.1±0.42
	University hospital	48	17.7	15.7±3.65		3.7±0.61
	Training hospital	10	3.7	15.4±3.81		3.6±0.56
	Other type	10	3.7	13.9±3.21		3.4±0.72

n: participant, %: participant percentage, X±SD: Mean±standard deviation, t: student t test, f: ANOVA, ASES: Academic Self-Efficacy Scale MRPS: Motivation's Resources and Problems Scale.

In our study, the difference between ASES and gender variables was statistically significant (p<0.05). We observed that the difference between ASES and graduated high school was statistically significant (p<0.05). We found that the education class, department's willingness to choose, reason for deciding on the department, desire to change department, and desire to educate another department were statistically significant in MRPS (p<0.05).

**Table 3.** Prediction of ASES on MRPS

Model*	B	SE	Beta		LB	UB		
1	(Constant)	4.18	0.15	27.22	<0.001	3.9	4.5	
	ASES	-0.04	0.01	-0.244	-4.13	<0.001	-0.06	-0.02

\*Linear regression, Dependent Variable: MRPS, f: ANOVA, SE: Standard Error, LB: Lower Bound for %95 Confidence Interval, UP: Upper Bound for %95 Confidence Interval

The correlation coefficient between the two scales (ASES and MRPS) was -0.244. As a result of linear regression analysis, ASES affects MBPS. and this effect was statistically significant ( $r:-0.244$ ,  $r^2:0.06$ , Durbin-Watson:1.9,  $f:17.1$  and  $p<0.001$ ) (Table 3).

## DISCUSSION

The lowest 7 and the highest 28 points are obtained from the scale of ASES. A high score shows that academic self-efficacy grade is also high (13). In our study, the academic self-efficacy scores of the students were moderate ( $16.2\pm3.47$ ). We suggest that nursing students have moderate faith in academic achievement. The research of Kocaaslan et al. (14) supports our results. The average academic self-efficacy scores obtained in previous scientific studies was higher than the average of our research (15, 16). When we compared our study findings with other studies, we can say that the academic self-efficacy of the students participating in our study is lower than others. We found that the differences between the gender (higher in females than males) and high school graduation were statistically significant. There was no statistical difference between other variables. Bulfone et al. (4), while women's academic self-efficacy increases over time, men's self-efficacy decreases. These findings support our findings regarding gender (17, 18, 19, 20), but some studies do not support this finding (5,21, 22, 23). The fact that female nursing students took more roles in academic studies may have affected the ASES mean. In addition, the higher adoption of the female nursing profession may also affect the mean ASES. In some studies, there is no statistical difference (24). This situation may have affected both the high school education and university education of students. The difference between academic self-efficacy scores and high school graduation was statistically significant. This difference stems from the health vocational high school. In the graduated high school variable, we found that the difference within the group resulted from the average of the health vocational high school option. Again, the study of Bulfone et al. (4) supports our results.

In our study, the MRPS score mean of the students

was moderate. In another study, the MRPS score mean of the students was high (25). It has been shown in the literature that motivation can be affected by various variables. Graduating from high school is effective on motivation (26). While the in-group difference between the variables of the class studied, the willingness and the reason for choosing the nursing department, and the desire to change the nursing department was found to be statistically significant, there was no in-group difference in the other variables. When the mean score of the MRPS scale was examined within the group of the class studied, the mean of the third and fourth grades was lower than the other groups, and the statistical difference stemmed from this. In our study, among the reasons for the decrease in professional motivation levels towards the last year, may be due to the lack of sufficient clinical conditions for the practise of nursing theoretical knowledges. The fact that students felt clinically inadequate may have negatively affected their levels of professional motivation. When the variable of willingness to choose the nursing department was evaluated in terms of MRPS averages, the statistical difference was significant. This difference was due to the difference in the mean for all options. When the variable of the reason for choosing the nursing department was examined, the option to love the profession was found to be higher on average than the other options, and a statistical difference was observed. Among other reasons, employment opportunities, family desire, and the nursing profession may have been preferred (27,28,29). Doing something willingly is a situation that increases intrinsic motivation. The high choice of liking the profession may be related to this. When the willingness to change the nursing department was examined, the mean of the "no" option was higher than the mean of the other option. Supporting this variable, when the variable of reading another department after studying the nursing department was evaluated within the group, the "yes" option was found to be lower than the other options on the mean.

In our study, we found ASES affects MRPS (negative correlation). Contrary to our study finding, in research conducted by Cengiz et al. (25), a positive correlation was found between the general self-efficacy of nursing students and their professional motivation levels. In the study of Okuroğlu (2022),



the relationship between academic self-efficacy and the clinical performance of nursing students correlated positively (30). Students with high academic self-efficacy have higher academic success. This result may be related to the fact that academically successful students prefer to be academicians rather than nurses. In addition, the students participating in the congresses are generally academically successful students who want to become academicians in the future.

## CONCLUSION

Nursing students' MRPS and ASES averages were moderate. Both ASES and MRPS scores were found to be affected by several variables. Also, ASES was found to affect MRPS. The negative correlation was found between the academic self-efficacy and their professional motivation. Increasing academic self-efficacy is crucial because it is related to academic success. This situation will indirectly positively affect the nursing profession. However, according to our study results, a negative correlation was found between ASES and MRPS. Academic success is crucial for the quality of the nursing profession, which can prepare them well for the profession. Therefore, it would be beneficial to conduct studies aimed at positively increasing the impact of academic self-efficacy on professional motivation. To increase the professional motivation levels of the students, it is recommended to increase the clinical field and laboratory applications.

**Acknowledgements:** We would like to thank all the participants who participated in our study.

**Disclosure of Funding and Conflicts of Interest:** This research was not supported by any institution or organization. The authors have no conflicts of interest to report.

**Declaration of Competing Interest:** The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

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