



ARAŞTIRMA MAKALESİ

RESEARCH ARTICLE

CBU-SBED, 2021, 8(1): 17-22

Hemşirelik Öğrencilerinin Bilimsel Araştırmaya Yönelik Tutumları ve Akademik Öz-Yeterlik Düzeyleri Arasındaki İlişki

The Relationship Between the Nursing Students' Attitudes Toward Scientific Research and Their Levels of Academic Self-Efficacy

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Gönderim Tarihi / Received: 04.06.2020

Kabul Tarihi / Accepted: 09.10.2020

DOI: 10.34087/cbusbed. 748244

Öz

Giriş ve Amaç: Bu çalışmanın amacı hemşirelik öğrencilerinin bilimsel araştırmaya yönelik tutumları ile akademik öz-yeterlik düzeyleri arasındaki ilişkinin incelenmesidir.

Gereç ve Yöntemler: Bu çalışma kesitsel tipte tasarlanmıştır. Çalışma, Eylül 2017-Haziran 2018 tarihleri arasında Türkiye'deki bir üniversitenin hemşirelik bölümündeki 570 öğrenciyle gerçekleştirilmiştir. Veriler, Öğrenci Bilgi Formu, Bilimsel Araştırmaya Yönelik Tutum Ölçeği (BATÖ) ve Akademik Öz-yeterlik Ölçeği (AÖÖ) kullanılarak toplanmıştır.

Bulgular: Hemşirelik öğrencilerinin ortalama BATÖ skoru 91.63 ± 13.85 'dir. Öğrencilerin ortalama AÖÖ puanı 19.11 ± 3.76 'dır. Öğrencilerin toplam BATÖ ile AÖÖ puan ortalamaları arasında pozitif iyi derecede korelasyon saptanmıştır ($r = 0.416$, $p = 0.001$).

Sonuç: Çalışmamız hemşirelik öğrencilerinin bilimsel araştırmaya yönelik tutumlarının ve akademik öz-yeterlik düzeylerinin yüksek olduğunu göstermiştir. Ayrıca, çalışmada bilimsel araştırmaya yönelik olumlu tutum ile akademik öz-yeterlik düzeyi arasında pozitif bir ilişki bulunmuştur.

Anahtar kelimeler: Akademik öz-yeterlik, Bilimsel araştırma, Bilimsel araştırmaya yönelik tutum, Hemşirelik öğrencisi

Abstract

Objective: The purpose of this study was investigated the relationship between the nursing students' attitudes toward scientific research and their levels of academic self-efficacy.

Materials and Methods: This study was designed a cross-sectional type. The study was conducted with 570 the students in the nursing department of a university in the Turkey between September 2017-June 2018. Data were collected using a Student Information Form, the Attitude Toward Scientific Research Scale (ATSRS), and the Academic Self-Efficacy Scale (ASES).

Results: The nursing students' mean ATSRS score was 91.63 ± 13.85 . The mean ASES score of the students was 19.11 ± 3.76 . Moderate positive correlations were detected between mean total ASES score and mean total ATSRS score in students ($r=0.416$, $p=0.001$).

Conclusion: Our study showed that nursing students have an overall positive attitude toward scientific research and high academic self-efficacy levels. Moreover, we found a positive correlation between positive attitude toward scientific research and level of academic self-efficacy.

Keywords: Academic self-efficacy, Attitude toward scientific research, Nursing student, Scientific research.

1. Giriş

Scientific research is based on curiosity and the desire to learn. This thirst for knowledge has strengthened our

orientation toward scientific advances through our endeavors to reveal the unknown [1,2]. Therefore, scientific advancement and professionalization are

regarded as basic elements of scientific research [1]. Research involves the methodical generation of data [3,4]. In this methodical process of data generation, a problem is identified, solutions are created and applied, and the results are analyzed, compared with previous scientific data, and recorded [5-7]. However, scientific knowledge is rapidly and continuously evolving. Thus, like every profession, the nursing profession must be able to rapidly and continuously follow scientific advances and reciprocate with evidence-based scientific research in its areas of practice.

Members of the nursing profession require a certain research culture to be able to participate in studies, stay up-to-date on scientific advances, and conduct evidence-based independent/professional scientific research. To do this, individuals in information societies should be guided to develop their scientific attitudes and behaviors and participate in the research process [8]. Universities have a key role in this because via their instructors, universities have the responsibility of training students who in the future will question, conduct research, and generate new knowledge [2,3,8]. Therefore, helping nursing students gain a research-oriented perspective (applying research outcomes to clinical practice, understanding and critically evaluating research reports), creating awareness of research, giving responsibility, and developing students' identity as researchers during undergraduate education are important in terms of increasing the quality of patient care and professionalization of the nursing field [1,9].

Studies have shown that when the students are given the responsibility for scientific research, they are more motivated, see the necessity of clinical research, develop competence in evaluating research outcomes, and believe that they will be able to find time to implement the research outcomes in clinical practice and will be able to gain institutional support [10-13]. In addition, another study indicated that nursing students think scientific research increases professionalism and quality of care [3]. Despite these findings, studies in the nursing field are usually conducted by academicians, and the results cannot be applied in practice to the desired extent [5]. Studies have shown that although nurses believe in the benefits of doing research, they do not believe that the research outcomes can be implemented and consider them insufficient to solve problems faced in the clinic [11,14]. Furthermore, it is reported that inadequacy concerning scientific research in undergraduate nursing education causes a high level of anxiety and negative perspective of conducting research [6,14]. Anxiety about conducting research reduces students' sense of self-efficacy [12,13]. However, if the student feels confident and is able to act without inhibition in subjects they are interested in, their level of self-efficacy increases [11,12,15]. Students' academic self-efficacy levels influence their academic success and career plans [14]. A student's belief that they can successfully fulfill their responsibilities increases their academic performance [14,16]. High perceived self-efficacy increases the student's motivation level and strengthens their ability to

cope with new or challenging tasks [8,10,15]. Other studies have shown that low perceived self-efficacy caused students to leave their responsibilities unfinished and feel helpless [11,17]. Students who work without an effective role model in fields that are stressful and have difficult working conditions have lower perceived self-efficacy [16]. Nursing students may have reduced self-efficacy due to fear of making mistakes in both theoretical and clinical applications and having unclear expectations regarding clinical practice [18].

Nursing students will later provide healthcare services, and thus should have both a positive attitude toward scientific research and a high level of academic self-efficacy in order to be able to provide quality service. For this reason, this study was conducted to investigate the relationship between the nursing students' attitudes toward scientific research and their levels of academic self-efficacy.

2. Materyal ve Metot

2.1. Study Design

This cross-sectional study was performed in the 2017–2018 academic year with volunteer students studying in the nursing department of a university in the Ankara province of Turkey.

2.2. Study Sample and Participant Characteristics

The study population comprised 800 nursing students. No sample selection method was used in this study. All nursing students who volunteered to participate were included in the study. The study was conducted with a sample size of 570 students (71% of the study population). Students aged 18 years or older were included in the study.

2.3. Data Collection Tools

Data were collected using a student information form, the Attitude Toward Scientific Research Scale (ATSRS), and the Academic Self-Efficacy Scale (ASES). A questionnaire including these scales was given to the students by the researchers. The student information form included some sociodemographic characteristics and was prepared by the researchers based on a literature review [1,2,6,8,18]. The ATSRS, developed in the Turkish language by Korkmaz et al. (2011), is a 5-point Likert-type scale comprising 4 subdimensions [15]. Subdimensions of the scale include 'unwillingness to assist researchers', 'negative attitude toward research', 'positive attitude toward research', and 'positive attitude toward researchers'. High scores in the first and second subdimensions (unwillingness to assist researchers and negative attitude toward research) indicate a less favorable attitude, while high scores in the third and fourth subdimensions (positive attitude toward research and positive attitude toward researchers) indicate a more favorable attitude. Therefore, there is no overall score for the ATSRS, and only the four separate subdimension scores are calculated for this scale. Cronbach's alpha coefficient for the scale is 0.79 [15].

The ASES was developed by Jerusalem and Schwarzer (1981) [19] and its Turkish validity and reliability study was performed by Yılmaz, Gurcay, and Ekici (2007)

[13]. It includes 7 items scored on a 4-point Likert-type scale and its Cronbach's alpha was also reported as 0.79.

2.4. Study Procedure

After obtaining the approval of the instructors in the nursing department, the questionnaire forms were distributed by the researchers at the beginning of class. The students completed the form in about 15 minutes.

2.5. Ethical Considerations

Permission to conduct the study was obtained from the relevant institution and a university ethics committee. Participants included in the sample were informed about the study and their verbal consent was obtained.

2.6. Data analysis

SPSS version 22.0 software (SPSS Inc., Chicago, IL) was used for data analyses. Level of significance was accepted as $p < 0.05$. The data were expressed in frequency and percent distribution, mean, and standard deviation. Independent samples t test, ANOVA, and Pearson correlation analysis were used in the analyses.

3. Results and Discussion

Of the nursing students who participated in the study, 52,3% were 20 years of age or younger (mean $20,61 \pm 2,42$ years), 85,1% were female, 28,2% were second-year students (Table 1), 98,5% had a grade point average (GPA) of 2,01 or higher (mean $3,03 \pm 0,15$), and 94.9% had graduated from general high school. We found that 64,0% of the students chose the nursing profession themselves, 56,3% chose the profession for guaranteed work, 52,5% were satisfied with their department, and 58,6% felt a sense of belonging to the profession. It was also determined that 89,1% of the nursing students took a scientific research course during their studies, 29,5% followed scientific publications, 74,4% were willing to conduct scientific research, 56,6% wanted to participate in scientific research for professional/personal development, and 32,2% were unwilling to participate in scientific research due to lack of time (Table 1).

The nursing students' mean ATSR score was $91,63 \pm 13,85$. The nursing students' mean ATSR subdimension scores were $22,23 \pm 6,71$ for unwillingness to assist researchers, $20,37 \pm 6,90$ for negative attitude toward research, $25,09 \pm 5,79$ for positive attitude toward research, and $23,92 \pm 4,97$ for positive attitude toward researchers. In addition, the mean ASES score of the students was $19,11 \pm 3,76$ (Table 2).

In our study, mean total ATSR and ASES scores of fourth-year students were significantly higher than those of first-, second-, and third-year students. In addition, students who expressed satisfaction with studying in the nursing department, had a sense of belonging to the profession, and were willing to conduct scientific research had higher mean ATSR and ASES scores compared to students who responded negatively to those questions ($p < 0,001$ for all) (Table 3).

Mean ATSR and ASES scores of the nursing students did not vary significantly according to variables such as age, GPA, gender, school from which they graduated, who decided they would pursue the nursing profession, their reason for choosing the profession, and whether

Table 1. Characteristics of the Nursing Students (n: 570)

Variables	n	%
Age (years)		
≤20	298	52,3
≥21	272	47,7
Gender		
Female	485	85,1
Male	85	14,9
Year of Study		
First	161	28,2
Second	160	28,1
Third	135	24,6
Fourth	109	19,1
Basis for choosing the profession		
University entrance exam score	139	24,4
Guaranteed work	321	56,3
Love of the profession	110	19,3
Satisfaction with department		
Satisfied	271	47,5
Not satisfied	299	52,5
Sense of professional belonging		
Yes	334	58,6
No	236	41,4
Taking a scientific research course		
Yes	61	10,9
No	508	89,1
Following scientific publications		
Yes	168	29,5
No	402	70,5
Willingness to conduct scientific research		
Yes	424	74,4
No	145	25,6
Reason for wanting to participate in scientific research (n: 424)		
Professional/personal development	240	56,6
To improve quality of care	32	17,1
To follow scientific developments	50	8,8
For graduate education	100	17,5
Reason for not wanting to participate in scientific research (n: 145)		
Unsuitable working environment	26	17,9
Lack of knowledge	13	9,0
Do not consider it beneficial	14	9,7
Lack of motivation	41	28,2
Lack of time	51	35,2

Table 2. Mean ATSRS Subdimension Scores of the Nursing Students

ATSRS Subdimension	Min – Max Values	Participants' Min – Max Values	Mean ± SD
Unwillingness to assist researchers	8 – 40	8 – 40	22,23 ± 6,71
Negative attitude towards research	9 – 45	9 – 45	20,37 ± 6,90
Positive attitude towards research	7 – 35	7 – 35	25,09 ± 5,79
Positive attitude towards researchers	6 – 30	6 – 30	23,92 ± 4,97
Total ATSRS	30 – 150	40 – 150	91,63 ± 13,85

ATSRS: Attitude Toward Scientific Research Scale; Min. - Max.: Minimum – Maximum; SD: Standard deviation

Table 3. Comparison of Nursing Students' Mean ATSRS and ASES Scores Based On Certain Characteristics

Variables	n	ATSRS	ASES
Year of Study			
First ^a	161	91,24 ± 14,77	18,18 ± 3,66
Second ^b	160	90,48 ± 14,05	19,49 ± 3,80
Third ^c	135	91,13 ± 13,07	19,31 ± 4,19
Fourth ^d	109	93,65 ± 12,24	20,22 ± 3,09
		F: 2,883; p: 0,011 d-a, d-b, d-c	F: 5,092; p: 0,001 d-a, d-b, d-c
Satisfaction with department			
Satisfied	271	92,71 ± 14,09	20,18 ± 3,98
Not satisfied	299	91,00 ± 13,59	19,03 ± 3,50
		t: 3,341; p: 0,003	t: -0,476; p: 0,002
Sense of professional belonging			
Yes	334	92,77 ± 15,94	21,19 ± 3,59
No	236	90,83 ± 12,30	19,00 ± 3,90
		t: -1,651; p=0,006	t: 0,595; p: 0,010
Willingness to conduct scientific research			
Yes	424	92,00 ± 15,75	19,29 ± 3,76
No	146	90,51 ± 13,18	18,06 ± 3,72
		t: 5,042; p=0,047	t: 1,905; p: 0,016

ATSRS: Attitude Toward Scientific Research Scale; ASES: Academic Self-Efficacy Scale ; t: Significance test of difference between 2 means; F: Analysis of variance; p: Statistical analysis

they took scientific research courses or followed scientific publications ($p > 0,05$).

Moderate positive correlations were detected between mean total ASES score and mean total ATSRs score ($r: 0,416$, $p: 0,001$), ATSRs positive attitude toward researchers subdimension score ($r: 0,505$, $p: 0,001$), and ATSRs positive attitude toward research subdimension score ($r: 0,576$, $p: 0,001$). In contrast, there were weak negative correlations between mean ASES score and the ATSRs unwillingness to help researchers ($r: -0,319$, $p: 0,001$) and negative attitude toward research ($r: -0,226$, $p: 0,001$) subdimension scores (Table 4). According to this, higher ATSRs subdimension scores for positive attitude toward research and researchers were associated with higher academic self-efficacy levels. In addition, lower ATSRs subdimension scores for unwillingness to assist researchers and negative attitude toward research were also associated with greater academic self-efficacy.

Table 4. Relationship Between ATSRs and ASES Scores

ATSRs	ASES
Unwillingness to assist researchers	r: -0,319
	p: 0,001
Negative attitude towards research	r: -0,226
	p: 0,001
Positive attitude towards research	r: 0,576
	p: 0,001
Positive attitude towards researchers	r: 0,505
	p: 0,001
Total ATSRs	r: 0,416
	p: 0,001

ATSRs: Attitude Toward Scientific Research Scale; ASES: Academic Self-Efficacy Scale; r: Correlation coefficient; p: Statistical analysis

In this study, we found that nursing students have a positive attitude toward scientific research and high academic self-efficacy levels. Studies by Celik et al. (2014) and Björkström et al. (2003) also showed that nursing students had a positive attitude toward performing scientific research [3,20]. In contrast, Ilhan et al. (2016) reported that nursing students had a negative attitude toward scientific research [1]. Our findings regarding nursing students' academic self-efficacy levels are consistent with other studies [4,21]. According to these results, positive attitudes toward scientific research and high levels of academic self-efficacy among nursing students can be considered

favorable and desirable for the profession. This is because nursing education might have helped the students to develop an awareness of scientific research and a critical perspective.

In the present study, we observed that fourth-year nursing students had a more positive attitude toward scientific research and higher levels of academic self-efficacy compared to students in the other classes. Kes and Sahin (2019) and Unver et al. (2017) also found that fourth-year nursing students had a more positive attitude toward scientific research than more junior students [8,22]. Furthermore, studies by Karadag et al. (2011) and Zengin (2007) showed that academic self-efficacy level increases as students progress through their studies [4,23]. Similar results were also obtained in other studies [6,7]. These findings suggest that fourth-year students' attainment of greater scientific knowledge, skill, and experience may impact their willingness to follow research reports, use new information they acquire in clinical internships, and get support from academicians.

Our results indicated that students who were satisfied with studying in the department of nursing and had a sense of belonging to the profession had positive attitudes toward scientific research and high levels of academic self-efficacy. This is consistent with some earlier reports [2,14]. According to these results, satisfaction with their department and feeling that they belong and are well suited to the nursing profession increases the students' academic self-efficacy by promoting their participation in scientific activities, learning of the research process, professional self-confidence, and problem-solving and critical thinking skills.

We also found in this study that willingness to conduct scientific research was associated with a positive attitude toward scientific research and high level of academic self-efficacy. The same relationship was reported in studies by Sabzvari et al. (2009), Aydin et al. (2015), and Konuk Sener et al. (2016) [10,11,24]. Willingness to conduct scientific research may strengthen nursing students' professional knowledge and skills and enhance their academic self-efficacy.

There was a moderate positive correlation between attitudes toward scientific research and academic self-efficacy levels in the nursing students in our study. According to the results of our study, the students' academic self-efficacy level increases as their attitude toward scientific research becomes more positive. We could not find any studies in the literature that made a similar comparison. The results of our study suggest that increases in students' scientific knowledge, skill, and experience are associated with greater competence and willingness to follow research reports, participate in studies, collaborate with researchers, and implement research outcomes in patient care in the clinical setting.

4. Conclusion

Our study showed that nursing students have an overall positive attitude toward scientific research and high academic self-efficacy levels. Moreover, we observed a positive correlation between positive attitude toward

scientific research and level of academic self-efficacy. The students' year of study, satisfaction with their department, sense of belonging to the profession, and willingness to conduct scientific research were also associated with their attitude toward scientific research and academic self-efficacy levels. Undergraduate nursing curricula should emphasize participation in learning activities (conferences, panels, symposiums) that foster favorable attitudes toward scientific research and promote academic self-efficacy.

5. Acknowledgements and Disclosures

The authors would like to thank the students who voluntarily participated in this study.

The data were collected after receiving approval from the hospital and The Clinical Research Ethics Committee of a Toros University (NO. 09/2018).

Study design: DA, BS; data collection and analysis: DA, BS and, manuscript preparation: DA, BS.

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