

# Artuklu Health

Research Article / Araştırma Makalesi

# **Empathy and Perceptions of Spirituality and Spiritual Care Among Turkish Nursing Students: A Correlational Study**

# Türk Hemşirelik Öğrencilerinin Empati Düzeyleri ile Maneviyat ve Manevi Bakım Algıları Arasındaki İlişki: Korelasyonel Bir Çalışma

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### **ABSTRACT**

**Introduction:** This study aimed to determine the relationship between nursing students' levels of empathy and their perceptions of spirituality and spiritual care

**Methods:** This descriptive, correlational study included a sample of 401 nursing students in their second, third, and fourth years at a state university's nursing faculty. Data were collected using the Introductory Information Form, the Toronto Empathy Scale, and the Spirituality and Spiritual Care Rating Scale.

Results: The students' mean total score on Toronto Empathy Scale was  $54.26\pm6.75$ , and their mean total score on Spirituality and Spiritual Care Rating Scale was  $65.88\pm7.99$ . A significant difference was found between the total Toronto Empathy Scale scores and variables such as gender, receiving education on spirituality and spiritual care, and the need for education on spiritual care (p<0.05). Similarly, a significant difference was also found between the total Spirituality and Spiritual Care Rating Scale and variables such as gender, the need for education on spiritual care, and the experience of providing care related to spiritual care (p<0.05). A moderate positive and significant correlation was found between the total scores of the Toronto Empathy Scale and the Spirituality and Spiritual Care Rating Scale (r=0.482, p<0.01).

Conclusion: The findings suggest that nursing students possess relatively high levels of both empathy and positive perceptions of spirituality and spiritual care. Furthermore, the study concludes that increased empathy levels are associated with more positive perceptions of spirituality and spiritual care. Based on these results, it is recommended that nursing curricula incorporate content designed to enhance students' empathy levels and perceptions of spiritual care, and that their specific skill needs in this area are addressed.

Keywords: Nursing students, Empathy, Spirituality, Spiritual care, Perception of spiritual care

# MAKALE BİLGİLERİ

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# ÖZET

Giriş: Bu çalışma, hemşirelik öğrencilerinin empati düzeyleri ile maneviyat ve manevi bakım algıları arasındaki ilişkiyi belirlemek amacıyla yapılmıştır.

Yöntem: Bu tanımlayıcı, ilişkisel çalışma, bir devlet üniversitesinin hemşirelik fakültesinde öğrenim gören ikinci, üçüncü ve dördüncü sınıf 401 hemşirelik öğrencisinden oluşan bir örneklem içermektedir. Veriler Tanıtıcı Bilgi Formu, Toronto Empati Ölçeği ve Maneviyat ve Manevi Bakım Dereceleme Ölçeği ile toplanmıştır.

Bulgular: Öğrencilerin Toronto Empati Ölçeği toplam puan ortalaması 54.26±6.75 ve Maneviyat ve Manevi Bakım Dereceleme Ölçeği toplam ortalama puan 65.88±7.99'dur. Toronto Empati Ölçeği toplam puan ortalaması ile cinsiyet, maneviyat ve manevi bakım konusunda eğitim alma durumu ve manevi bakım ile ilgili eğitime ihtiyaç duyma durumu arasında anlamlı farklılık bulunmuştur (p<0.05). Maneviyat ve Manevi Bakım Dereceleme Ölçeği toplam puan ortalaması ile cinsiyet, manevi bakım ile ilgili eğitime ihtiyaç duyma durumu ve manevi bakımla ilgili bakım verme deneyimi arasında anlamlı farklılık saptanmıştır (p<0.05). Öğrencilerin Toronto Empati Ölçeği ile Maneviyat ve Manevi Bakım Dereceleme Ölçeği toplam puan ortalamaları arasında pozitif yönde zayıf düzey anlamlı ilişki bulunmuştur (r=0.482, p<0.01).

**Sonuç:** Araştırma sonuçları, hemşirelik öğrencilerinin yüksek düzeyde empatiye ve maneviyat ve manevi bakım algılarına sahip olduğunu göstermektedir. Ayrıca, öğrencilerin empati düzeyleri arttıkça maneviyat ve manevi bakım algılarının da arttığı sonucuna varılmıştır. Bu sonuçlara dayanarak, hemşirelik müfredatlarının öğrencilerin empati düzeylerini ve manevi bakım algılarını geliştirmek için tasarlanmış içerikler içermesi ve bu alandaki özel beceri ihtiyaçlarının karşılanması önerilmektedir.

Anahtar Kelimeler: Hemşirelik öğrencileri, Empati, Maneviyat, Manevi bakım, Manevi bakım algısı

# 1. Introduction

Empathy is the ability of a nurse to understand and share the feelings of a patient by placing themselves in the patient's situation, enables them to feel and understand the patient's physical and psychological needs and alleviate their suffering (Peng et al., 2020). This skill helps nurses fully comprehend patients' needs during nursing practice and make informed decisions (Ağaçdiken and Aydoğan, 2017). Empathy is a crucial skill for nursing students in their clinical practice (Jia-Ru et al., 2022). Nursing students with higher levels of empathy are reported to demonstrate strong compassion and humanistic care behaviors. This is because they are better able to accurately interpret both the verbal and non-verbal behaviors of patients, assess the emotional state of patients and their families from their perspective, understand their internal experiences, and meet their physical, psychological, social, and spiritual needs (Wang et al., 2022).

In today's world, with the extension of adulthood (Ng et al., 2022), chronic and life-limiting diseases impose a significant burden on patients (Cao et al., 2022). Patients particularly face physical, economic, and psychosocial challenges, which lead to suffering on physical, psychological, social, and spiritual levels (Kang et al., 2021). Consequently, spiritual care needs emerge as a priority during the disease process (O'Brien et al., 2019). The concept of spirituality is defined as "the effort to understand and accept one's relationships with oneself and others, their place in the universe, and the meaning of life, which stems from experiences gained throughout life" (Gürsu and Ay, 2018). Spirituality becomes especially prominent during difficult situations like illness (Weathers et al., 2016). It provides hope, strength, comfort, and peace, while also alleviating pain and suffering, and facilitating acceptance of the illness (Miller et al., 2022; Oliveira et al., 2021). Spiritual care practices in nursing interventions include therapeutic approaches such as building trust with the patient, showing empathy, understanding the patient's concerns and values, and respecting and considering their religious beliefs (Taylor et al., 2019). During spiritual care practices, nurses can empathize, help patients discover the value of life, find meaning, and support their physical, psychological, and spiritual well-being (Donesky et al., 2020; Musa, 2020). However, subjective approaches to spiritual care, insufficient assessment of patients' spiritual needs, and inadequacies in providing spiritual care hinder effective spiritual care practices (Caldeira et al., 2016). Studies report that nursing students'

perceptions of spirituality and spiritual care are generally low to moderate (Bulut and Meral, 2019; Okuyan and Kerkez, 2023; Wang et al., 2022). It is emphasized that the best way to teach the nature of spiritual care and equip students with necessary skills in this area is through education (Petersen et al., 2017). Enhancing nursing students' perceptions of spiritual care during their education is considered essential for their ability to provide effective spiritual care in the future. Nursing students with a strong perception of spiritual care are better able to meet patients' and their families' needs through empathy, alleviating their anxieties, and improve the quality of care and patient satisfaction by establishing a good nurse-patient relationship (Chen et al., 2018).

It is believed that nursing students possessing high levels of empathy may positively influence their perceptions of spiritual care by enabling them to better understand patients' psychological states. In the literature, the relationship between nursing students' perceptions of spiritual care and empathy has been examined through the mediating role of various factors (Zhao et al., 2022; Wang et al., 2022). However, no study has directly addressed the relationship between nursing students' empathy levels and their perceptions of spirituality and spiritual care. The primary aim of this research is to clearly establish the relationship between nursing students' levels of empathy and their perceptions of spirituality and spiritual care, thereby providing a significant contribution to the literature on this topic.

# **Research Questions**

- What are the empathy levels and perceptions of spirituality and spiritual care among nursing students?
- Do empathy levels of nursing students differ based on their demographic characteristics?
- Do nursing students' perceptions of spirituality and spiritual care differ based on their demographic characteristics?
- Is there a relationship between nursing students' levels of empathy and their perceptions of spirituality and spiritual care?

# 2. Methods

# 2.1. Study Design, Setting and Sample

The study employed a descriptive and correlational design. It was conducted with second-, third-, and fourth-year nursing students at a nursing faculty in the Central Anatolia region of Turkey. Data were collected between May 15, 2024, and June 4, 2024, via face-

to-face interviews conducted by the researchers during students' class breaks. In each class, the researchers explained the research and its objectives before distributing the questionnaires.

The inclusion criteria were: (1) agreement to participate in the study complete completion of the survey forms, (2) no barriers in verbal communication, and (3) enrollment in the second, third, or fourth year of the nursing program during the study period. Exclusion criteria were: first-year students, as they were deemed to lack sufficient clinical experience in the hospital environment to have an in-depth perspective on providing spiritual care to patients, and international students, as their perceptions of spiritual care might be influenced by cultural factors. This aligns with other research that acknowledges the importance of cultural factors in spiritual care.

The study population comprised 533 second-, third-, and fourth-year nursing students at the faculty where the study was conducted. The aim was to reach the entire population without selecting a sample. Ultimately, 401 students voluntarily agreed to participate and were reached. The participation rate was 75.2%.

# 2.2. Data Collection Tools

Data were collected using the "Introductory Information Form," "Toronto Empathy Scale (TES)," and "Spirituality and Spiritual Care Rating Scale (SSCRS)."

Introductory Information Form: Prepared pursuant to previous studies (Zhao et al., 2022; Wang et al., 2022), the form consisted of a total of 7 items, including age, gender, income, grade level, training status on spirituality and spiritual care outside of the normal academic curriculum (seminars/courses/certificates, etc.), need for education on spiritual care, and experience of caregiving related to spiritual care.

Toronto Empathy Scale (TES): TES was developed by Spreng et al. (2009) and adapted to Turkish language by Totan et al. (2012). The single-domain 13-item scale is aimed to determine the level of empathy in individuals. Items are scored as 1 'never', 2 'rarely', 3 'sometimes', 4 'often' and 5 'always'. Questions 1, 3, 5, 7–9, 11, and 12 are reverse coded. The total score from the scale is at least 13 and at most 65, and the higher the score, the higher the level of empathy. The Cronbach's alpha value of the scale is 0.79 (Totan et al., 2012). In the present study, Cronbach's alpha value was 0.83.

Spirituality and Spiritual Care Rating Scale (SSCRS): The scale was developed by McSherry et al. (2002), and the validity and

reliability study for the Turkish language was conducted by Ergül and Temel (2007). The five-point Likert-type scale includes 17 items with responses ranging between "1=definitely do not agree" and "5=totally agree." Thirteen items are scored directly (1, 2, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, and 17) and four items are scored conversely (3, 4, 13, and 16). The lowest and highest score on the scale is 17 and 85, respectively. Higher total scores are indicative of a higher level of perception of spirituality and spiritual care. The Cronbach's alpha value of the scale was 0.76 (Ergül and Temel, 2007). In the present study, the Cronbach's alpha value was 0.83.

# 2.3. Data Collection Process

The study data were collected by the author using face-to-face interviews with the students in the classroom between May and June 2024. Prior to the data collection, the students were informed about the research, and their verbal and written consent was obtained. Completing the surveys took approximately 15 minutes. Anonymity and confidentiality were ensured.

# 2.4. Data Analysis

The Statistical Package for the Social Sciences Version 25 software package was used to analyze study data. Normal distribution of data conformity was assessed by skewness, kurtosis values and Kolmogorov-Smirnov test. Skewness and Kurtosis were used to test the normal distribution hypothesis for the variables prior to data analysis. If these values are in the range -2 to +2 means that the data have a normal distribution (George and Mallery, 2010). All data met the normal distribution hypothesis in the range of -2-+2 except for the SSCRS score. SSCRS does not conform to normal distribution because p<0.05 was found in Kolmogorov-Smirnov test. Statistical parameters were expressed as mean±standard deviation, median, number, and percentage. For the purpose of analysis, independent samples t-test, one-way analysis of variance, Mann-Whitney U test, Kruskal-Wallis test, and Pearson and Spearman correlation analysis were used. In the correlation evaluation, r $\leq$ 0.25 is very weak; 0.26 $\leq$  r  $\leq$ 0.49 is weak;  $0.50 \le r \le 0.69$  is moderate;  $0.70 \le r \le 0.89$  is strong;  $0.90 \le r \le 1$  is very strong (Erdoğan et al., 2018).

# 2.5. Ethical Consideration

Ethics committee approval (Date: April 2, 2024, Decision No: 2024/27) was obtained from the Health Sciences Scientific Research Ethics Committee of a university. Application permission was also obtained from the dean's office of the relevant faculty (Date: April 25, 2024, Number: E-81647866-900-742936)

to conduct the study. Permission to use the scales was obtained from the corresponding authors via email. All participants who agreed to participate in the study were informed about its purpose, and their verbal and written consent were obtained. This study was prepared, implemented, and reported according to the Strengthening the Reporting of Observational Studies in Epidemiology statement and in accordance with the ethical principles outlined in the Declaration of Helsinki (Von Elm et al., 2014).

#### 3. Results

**Table 1.** Descriptive Characteristics of Students (n=401)

Age (year) X±SD (Min- Max)	21.60± Female	1.40 (19	-27)	
T	Tamala		-21)	
Gender	Ciliaic	319	79.6	
Gender	Male	82	20.4	
I	Lower	24	6	
Income Level	Medium	342	85.3	
F	Higher	35	8.7	
2	2	103	25.7	
Class 3	3	169	42.1	
4	1	129	32.2	
Receiving training on spirituality	Yes	57	14.2	
and spiritual care outside the	1 68	31	14.2	
normal academic curriculum	No	344	85.8	
(Seminar/course/certificate etc.)	10	511	05.0	
Need for training on spiritual care	Yes	161	40.1	
Need for training on spiritual care	No	240	59.9	
Caregiving experience related to Y	Yes	56	14	
spirituality and spiritual care	No	345	86	

X=Mean, SD=Standard Deviation, Min=Minimum, Max=Maximum.

The mean age of the students was  $21.60\pm1.40$  years; 79.6% were female, 85.3% had a middle-level income, and 42.1% were third-year students. About 85.8% of the students did not receive any training on spirituality and spiritual care, 59.9% thought that they did not need training on spiritual care, and 86% did not have any caregiving experience in spirituality and spiritual care (Table 1).

Table 2 shows the mean scores, minimum—maximum values, and Cronbach's alpha coefficients of the scales. The students' mean total score on the empathy scale was  $54.26\pm6.75$ , and their mean total score on the spirituality and spiritual care scale was  $65.88\pm7.99$ .

Table 2. Total Mean Scores of TES and SSCRS

	X±SD	Min-Max	Cronbach Alpha
TES	54.26±6.75	30-65	0.83
SSCRS	65.88±7.99	25-85	0.83

SSCRS=Spirituality and Spiritual Care Rating Scale, TES=Toronto Empathy Scale, X=Mean, SD=Standard Deviation, Min=Minimum, Max=Maximum.

Significant differences existed between gender, training status on spirituality and spiritual care, need for training on spiritual care, and the mean total score of TES (p<0.05). There was a significant difference in gender, the need for training on spiritual care, the caregiving experience related to spiritual care, and the mean total score of the SSCRS (p<0.05) (Table 3).

Table 3. Comparison of Total Score Averages of TES and SSCRS according to Students' Descriptive Characteristics (n=401)

Variables		TES X±SD	Test Value	р	SSCRS Median (Min-Max)	Test Value	p	
Gender	Female	54.93±6.27	t=7.215	0.001	66 (33-85)	U=9864.500	0.001	
Gender	Male	51.64±7.85	t=7.213		64 (25-82)			
	Lower	53.45±6.82			64.50(25-79)	KW=1.637	0.441	
Income Level	Medium	54.43±6.33	F=0.466	0.631	66(32-85)			
	Higher	53.17±10.04			65(33-81)			
	2	54.58±5.56		0.809	67(32-82)	KW=0.841	0.657	
Class	3	54.10±6.73	F=0.213		65(42-85)			
	4	54.22±7.62			66(25-85)			
Receiving training on spirituality and spiritual	iving training on spirituality and spiritual Yes 56.54±6.2				66(25-83)			
care outside the normal academic curriculum			t=0.004 <b>0.008</b>	t=0.004 <b>0.0</b>			U=9490.000	0.698
(Seminar/course/certificate etc.)	No	53.88±6.67			66(32-85)			
Need for training on spiritual care	Yes	55.30±5.96	t=2.070 <b>0.009</b>	67(25-85)	U=15980.00	0.003		
Need for training on spiritual care	No	53.56±7.16		65(32-85)				
Caregiving experience related to spirituality	Yes	55.71±6.15	t=0.596	0.065	68(25-81)	U=7838.00	0.023	
and spiritual care	No	54.02±6.82	1-0.390		66(32-85)	0-7638.00		

t=Independent Simple T Test, F=One Way Anova, U=Mann-Whitney U, KW=Kruskal-Wallis, TES=Toronto Empathy Scale, SSCRS=Spirituality and Spiritual Care Rating Scale

There was a positive, weakly significant correlation between the students' mean total scores from TES and SSCRS (r=0.482, p<0.01). There was no significant correlation between the age variable and TES and SSCRS (p>0.05) (Table 4).

**Table 4.** The Relationship Between Scale Scores and Age Variable

		TES	SSCRS
Age(year)	r	-0.052	-0.14 <sup>b</sup>
	p	$0.299^{a}$	0.781
TES	r	1.000	0.482**
	p		$0.000^{b}$
SSCRS	r	0.482**	1.000
	р	$0.000^{b}$	

\*\*Correlation is significant at the 0.01 level (2-tailed), \*Pearson Correlation (Normal Distribution). \*b Sperman Correlation (Abnormal Distribution)

### 4. Discussion

In the present study, the students' empathy levels (54.26±6.75) were high. This contrasts with previous studies that reported moderate empathy levels in nursing students (Hamaideh et al., 2024; İlter and Ovayolu, 2023; Wang et al., 2022). This finding suggests that the students' empathy skills, including their ability to perceive patients' emotions, address their physical and psychological needs, and alleviate their suffering, are well-developed. Empathy is a skill that can be cultivated through education and practice (Robinson et al., 2023), and prior research has highlighted the importance of incorporating empathy training into the nursing curriculum (Atta et al., 2024). Therefore, it is plausible that these nursing students benefit from effectively structured coursework designed to foster empathy from the beginning of their undergraduate education.

In this study, female students exhibited higher levels of empathy. This aligns with previous research consistently demonstrating that female students tend to have higher empathy levels than their male counterparts (Aktaş et al., 2018; Atta et al., 2024; Strekalova, 2019). However, some studies have reported no significant relationship between gender and empathy levels in nursing students (Hamaideh et al., 2024; İlter and Ovayolu, 2023; Liu et al., 2023). These discrepancies may be attributable to variations in students' cultural backgrounds, upbringing, and personal values.

Students who receive education on spirituality and spiritual care often demonstrate higher levels of empathy. Prior research indicates that training in spiritual care can enhance empathic communication skills (Kang and Yong, 2019; Petersen and Schiltz, 2020). It is plausible that participation in spiritual care

programs beyond the standard curriculum contributes to the development of empathy. Incorporating additional educational content into the nursing curriculum can increase the visibility of spiritual nursing care in clinical practice, promote a culture of spiritual care, and improve nurses' understanding and knowledge of spirituality (Hawthorne and Gordon, 2020). Incorporating additional educational content into the nursing curriculum can increase the visibility of spiritual nursing care in clinical practice, promote a culture of spiritual care, and improve nurses' understanding and knowledge of spirituality. In the present study, a substantial proportion (40.1%) of participants expressed a need for training in spiritual care, while only 14.2% had received such training. This is consistent with previous findings indicating that a large majority (87.7%-89.3%) of nursing students desire training in spiritual care, yet only a small fraction (7.4%-9.2%) have access to it (Zhao et al., 2022; Wang et al., 2022). This highlights a prevalent international issue. The unmet need for spiritual care training may contribute to empathy levels not reaching their full potential. Addressing this gap is crucial for improving nursing students' empathy and their ability to provide holistic care.

In the present study, students' perceptions of spirituality and spiritual care levels (65.88±7.99) were high. Similarly, other studies reported that nursing students had high perceptions of spirituality and spiritual care (Akkuş and Karabağ Aydın, 2022; Balay-Odao et al., 2024; Çetintaş et al., 2021; Musa 2020; Zhao et al., 2022). Nevertheless, there are also other studies which reported that nursing students' perceptions of spirituality and spiritual care were at lower and medium levels (Bulut and Meral, 2019; Okuyan and Kerkez, 2023; Wang et al., 2022). Although it is well-established that the training provided for spiritual care during undergraduate education increases students' knowledge and skills about spiritual care, there are deficiencies in this field in the nursing curriculum (Petersen and Schiltz, 2020). It can be said that although it is inadequately included in the curriculum, it is effective in raising students' awareness and positive perceptions.

Female students had higher perceptions of spirituality and spiritual care. Similarly, it was reported that female students had higher perceptions of spirituality and spiritual care. (Akkuş and Karabağ Aydın, 2022; Aslan and Unsal 2021; Çetintaş et al., 2021). The female students' perceptions of spiritual care are expected to be higher than the male students since female students can express their emotions more easily and traditionally

assume more of a caregiving role (Akkuş and Karabağ Aydın, 2022). Notwithstanding the above, other studies reported that the gender variable was not related to the level of spirituality and spiritual care perceptions in nursing students, unlike the results of the present study (Balay-Odao et al., 2024; Bulut and Meral, 2019; Okuyan and Kerkez, 2023; Zhao et al., 2022). This difference may be because male students were the minority in the sample groups in such studies.

Students in need of training in spiritual care had higher perceptions of spirituality and spiritual care. Similarly, it was suggested that students who needed training on spiritual care had higher levels of spirituality and spiritual care perceptions, and it was reported that the majority of the students heavily needed training (Çetintaş et al., 2021; Okuyan and Kerkez, 2023; Zhao et al., 2022). Addressing the training needs for spiritual care requested by the students is necessary to increase their perceptions of spiritual care. Additionally, it was a promising result that students were willing to receive training on spiritual care and wanted to improve themselves in this field. The fact that students were aware of the need for training in this field during their undergraduate education suggested that they would be sensitive in meeting the spiritual care needs of their patients in the future.

Students with caregiving experience related to spiritual care had higher levels of perceptions of spirituality and spiritual care. It was found that students who practiced spiritual care in their clinical practice had higher perceptions of spirituality and spiritual care (Bulut and Meral, 2019). Unlike the results of the present study, it was reported that there was no relationship between students' spiritual care practice status and their perceptions of spirituality and spiritual care (Akkus and Karabağ Aydın, 2022). In such studies, it was reported that students provided spiritual care at lower rates in clinical practice. It can be suggested that students cannot provide spiritual care due to inadequate knowledge and skills in spiritual care practice. It was reported that it was possible to provide students with skills through training (Petersen et al., 2017). Therefore, eliminating students' lack of training can increase their spiritual care practice skills and allow them to provide further spiritual care in clinical practice.

In the present study, as the empathy levels of the students increased, their perceptions of spirituality and spiritual care increased as well. Similarly, in previous reports, it was shown that the empathy levels of the students were positively correlated

with their perceptions of spirituality and spiritual care (Zhao et al., 2022; Wang et al., 2022). Students with higher empathy could more accurately understand the patient's verbal and nonverbal behaviors and practice spiritual care in a compassionate and humanistic way (Chen et al., 2018). Nursing students with a higher level of spiritual care perception can share their feelings and empathize with their patients while providing them with spiritual care.

#### 4.1. Limitations

One limitation of this study is the disproportionate representation of female students among the participants. Another limitation stems from the reliance on students' self-reported data, which may be subject to bias.

### 5. Conclusion

In conclusion, this study found that students exhibited high levels of empathy and positive perceptions of spirituality and spiritual care. Furthermore, a positive correlation was observed between empathy levels and perceptions of spirituality and spiritual care. Gender, training in spirituality and spiritual care, and the perceived need for such training were found to influence students' empathy levels. Additionally, gender, the need for training in spiritual care, and caregiving experience related to spiritual care affected students' perceptions of spirituality and spiritual care. Based on these findings, it is recommended that students receive support in clinical practice to translate their knowledge into practical empathy and spiritual care skills. Providing experienced mentors during clinical practice can enhance their ability to offer spiritual support through empathic engagement with patients.

# Article Information / Makale Bilgileri

**Evaluation:** Two External Reviewers / Double Blind **Değerlendirme:** İki Dış Hakem / Çift Taraflı Körleme

**Ethical Consideration:** Ethics committee permission (Date: 02.04.2024, Decision No: 2024/27) was obtained from the Health Sciences Scientific Research Ethics Committee of a university and the necessary application permission was obtained from the dean's office (Date: 25.04.2024, Number: E-81647866-900-742936) of the relevant faculty to conduct the study.

It is declared that scientific and ethical principles were complied with during the preparation of this study and all the studies used in this study were cited in the bibliography. Etik Beyan: Bir üniversitenin Sağlık Bilimleri Bilimsel Araştırmalar Etik Kurulu'ndan etik kurul izni (Tarih: 02.04.2024, Karar No: 2024/27) ve ilgili fakültenin dekanlığından çalışmanın yapılabilmesi için gerekli başvuru izni (Tarih: 25.04.2024, Sayı: E-81647866-900-742936) alınmıştır.

Bu çalışmanın hazırlanma sürecinde bilimsel ve etik ilkelere uyulduğu ve yararlanılan tüm çalışmaların kaynakçada belirtildiği beyan olunur.

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Authorship Contribution/ Yazar Katkıları:

GNK (50%) - TGK (50%)
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GNK (%50) -TGK(%50)

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