

ARASTIRMA / RESEARCH

The Relationship Between Nursing Students' Affection towards Children and Basic Empathy and Humor Styles: A Correlational Study

Hemşirelik Öğrencilerinin Çocuk Sevgisi ile Temel Empati ve Mizah Tarzları Arasındaki İlişki: İlişkisel Bir Çalışma

Vildan APAYDIN CIRIK 1 D, Uğur GÜL 2 D, Bahar AKSOY 2 D

¹Karamanoğlu Mehmetbey Üniversitesi, Sağlık Bilimleri Fakültesi, Ebelik Bölümü, Karaman, Türkiye ²Gümüşhane Üniversitesi, Sağlık Bilimleri Fakültesi, Çocuk Sağlığı Hemşireliği Bölümü, Gümüşhane Türkiye

Geliş tarihi/Received: 07.04.2021 Kabul tarihi/Accepted: 08.08.2021

Sorumlu Yazar/Corresponding Author:

Vildan APAYDIN CIRIK, Dr. Öğr. Üyesi Karamanoğlu Mehmetbey Üniversitesi, Sağlık Bilimleri Fakültesi, Ebelik Bölümü, Karaman, Türkiye

E-posta: vildan.isil42@gmail.com **ORCID:** 0000-0002-9494-7283

Uğur GÜL, Arş. Gör. **ORCID:** 0000-0003-1428-166X

Bahar AKSOY, Arş. Gör. **ORCID:** 0000-0003-0466-5918

Abstract

Objective: Love and affection help children develop a basic sense of trust and healthy personality traits. This paper evaluated the relationship between affection towards children and basic empathy and humor in nursing students.

Material and Method: This descriptive and correlational study was conducted in the spring semester of the 2019-2020 academic year. The sample consisted of 112 nursing students who took the "Child Health and Disease Nursing" course. Participation was voluntary. Data were collected using a Descriptive Information Form, the Barnett Liking of Children Scale (BLOCS), the Basic Empathy Scale (BES), and the Humor Styles Questionnaire (HSQ).

Results: BLOCS scores were moderately and positively correlated with BES "basic empathy" subscale scores and weakly and positively correlated with BES "affective empathy" subscale scores. BLOCS scores were moderately and negatively correlated with HSQ "aggressive humor" subscale scores and positively correlated with BES "affective empathy" and HSQ "self-enhancing" and "affiliative humor" subscale scores.

Conclusion: Nursing students' empathy levels (cognitive and affective empathy) and humor styles (affiliative, self-enhancing, aggressive, and self-defeating humor style) affect their affection towards children. It is of paramount significance to determine nursing students' empathy levels and humor styles to improve pediatric nursing practices.

Keywords: Humor, child, affection, nursing students.

Öz

Amaç: Sevgi ve şefkat gören çocuklar sağlam bir güven duygusu ve sağlıklı kişilik özellikleri geliştirirler. Bu çalışmanın amacı hemşirelik öğrencilerinde çocuk sevgisi ile temel empati ve mizah tarzları arasındaki ilişkiyi belirlemektir.

Gereç ve Yöntem: Bu tanımlayıcı ve ilişkisel çalışma 2019-2020 eğitim-öğretim yılının bahar döneminde gerçekleştirilmiştir. Çalışmaya "Çocuk Sağlığı ve Hastalıkları Hemşireliği" dersini alan 112 hemşirelik öğrencisi katılmıştır. Katılım gönüllülük esasına dayalıdır. Veriler, Tanımlayıcı Bilgi Formu, Barnett Çocuk Sevme Ölçeği (BCSÖ), Temel Empati Ölçeği (TEÖ) ve Mizah Tarzları Anketi (MTA) ile toplanmıştır.

Bulgular: BCSÖ puanları, TEÖ "temel empati" alt ölçek puanlarıyla orta ve pozitif yönde ilişkiliyken, TEÖ "duygusal empati" alt ölçek puanlarıyla zayıf ve pozitif yönde ilişkilidir. BCSÖ puanları, MTA "saldırgan mizah" alt ölçek puanlarıyla orta ve negatif yönde ilişkiliyken, TEÖ "duygusal empati" ve MTA "kendini geliştirici mizah" ve "katılımcı mizah" alt ölçek puanlarıyla pozitif yönde ilişkilidir.

Sonuç: Hemşirelik öğrencilerinin empati düzeyleri (bilişsel ve duygusal empati) ve mizah tarzları (kendini geliştirici, kendini yıkıcı, katılımcı ve saldırgan) çocuklara duydukları sevgiyi etkilemektedir. Hemşirelik öğrencilerinin empati düzeylerini ve mizah tarzlarını belirlemek pediatrik hemşirelik uygulamalarını daha iyi hale getirmek için büyük önem taşımaktadır.

Anahtar Kelimeler: Mizah, çocuk, sevgi, hemşirelik öğrencileri.

1. Introduction

Love and affection help children develop a basic sense of trust and healthy personality traits (1). Health professionals, especially pediatric nurses, are responsible for showing love and affection towards hospitalized children, who may feel unloved during that period (2). Nurses' affection towards children depend on numerous factors: (1) childcare status, (2) empathic tendency levels, (3) marital status, (4) how many children they care a day, (5) where they work, and (6) whether they like playing with children, (7) like to work in pediatric units, (8) have children, and (9) have siblings. Empathy affects nurses' affection towards children (7). Empathy is defined as one's ability to put oneself in someone else's shoes to better understand what they feel or think (8). Some patients convey nonverbal messages to express their discomfort. Therefore, nurses with empathy are likely to better understand and communicate with their patients (9). It is difficult for hospitalized children to express their feelings and thoughts. Every hospitalized child has unique experiences, perceptions, thoughts, and feelings (1). Healthcare professionals who can empathize with their patients can help them experience less stress, anxiety, and depression (10, 11). Being understood by nurses makes hospitalized children feel like they are cared about and valued. They also trust the care provided by those nurses. However, there is no published research investigating the relationship between empathy and affection in nursing students. Therefore, this paper addressed the relationship between nursing students' basic empathy levels and affection towards children.

Pediatric nurses are expected to love children (1), and those with a good sense of humor can communicate better with them and show more affection towards them (12). Humor is a way of avoiding negative feelings while keeping one's feet on the ground (13). Bringing humor to someone's life is satisfying. For children, reducing stress through humor is a sign of love. Humor is also a strategy used by nurses to cope with anxiety, stress, and insecurity. Beck (1997) (14) states that nurses who use humor can better cope with difficult situations. Astedt and Isola (2001) also note that nurses who use humor as a therapeutic tool help their patients experience less stress (15). Humor helps develop a sense of trust between nurses and patients (12). Besides, nurses who use humor effectively interact better with patients (16). Humor is an essential part of pediatric nursing care. Therefore, nurses should use it to grow affection towards hospitalized children. However, there is no published research examining the relationship between humor and affection in nursing students. Therefore, this paper also looked into the effect of humor on affection in nursing students. Figure 1 shows the hypothetical model.

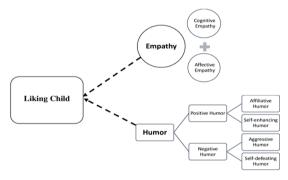


Figure 1: Hypothetical Model

1.1. Research Questions

This study sought answers to the following questions:

- 1. a.) What level of affection do nursing students have towards children?
- b.) What level of basic empathy do nursing students have?
- c.) Which type of humor nursing students use?
- 2. What is the relationship between basic empathy and affection towards children in nursing students?
- 3. What is the relationship between humor and affection towards children in nursing students?

2. Methods

2.1. Research Design

This was a descriptive and correlational study.

2.2. Sample

The study population consisted of 115 third-year nursing students. The sample consisted of 112 third-year nursing students who took the Child Health and Disease Nursing course in the 2019-2020 academic year. Participation was voluntary. There were no exclusion criteria. No sampling was performed because the goal was to include as many students in the sample as possible. The participation rate was 98.2%.

2.3. Data Collection

Data were collected online (Google Forms) by the researcher using a descriptive information form, the Barnett Liking of Children Scale, the Basic Empathy Scale, and the Humor Styles Questionnaire. The data were collected between 2019-2020 academic year summer term.

2.4. Data Collection Tools

2.4.1. Descriptive Information Form

The descriptive information form was based on a literature review conducted by the researcher (4,5,15). It consisted of 12 closed-ended questions on sociodemographic (age, gender, sibling, childcare status) and affective characteristics (communicating with children, spending time with children, approaching sick children, the effect of pediatrics on affection, wanting to be a pediatric nurse).

2.4.2. Barnett Liking of Children Scale

The Barnett Liking of Children Scale (BLOCS) was developed by Barnett and Sinsi (1990) to evaluate individuals' affection towards children (17). It was adapted to Turkish by Duyan and Gelbal (18). It consists of 14 items scored on a seven-point Likert-type scale. The total score ranges from 14 to 98. Higher scores indicate greater affection towards children. BLOCS had a Cronbach's alpha of 0.94 in this study.

2.4.3. Basic Empathy Scale

The Basic Empathy Scale (BES) was developed by Jolliffe and Farrington (2006) (19) to assess both cognitive and affective empathy. For BES, cognitive empathy is different from perspective-taking, while affective empathy is different from sympathy (19).

Therefore, it allowed us to evaluate the relationship between affection towards children and empathy more objectively.

The Basic Empathy Scale was adapted to Turkish by Topçu et al. (2010) (20). The scale consists of 20 items and two subscales: cognitive empathy (nine items) and affective empathy (eleven items). The items are scored on a five-point Likert-type scale. The total score ranges from 52 to 88. The scale had a Cronbach's alpha of 0.81 in this study.

2.4.4 Humor Styles Questionnaire

The Humor Styles Questionnaire (HSQ) was developed by Martin et al. (21) and adapted to Turkish by Yerlikaya (22). The scale consists of four subscales (self-enhancing humor, affiliative humor, self-defeating humor, and aggressive humor) under two main headings (harmonious/positive humor and incompatible/negative humor). Higher scores in a subscale indicate that one uses that kind of humor more often. The scale had a Cronbach's alpha of 0.81 in this study.

Table 1. Mean Scale Scores (n=113)

Scales		X±Sd	Min-Max	
BLOCS Total Score		83.44±13.72	33-98	
BES Total Score		71.59±5.95	52-88	
Affective empathy		29.60±3.04	18-37	
Cognitive empathy		41.99±4.95	29-55	
HSQ Total Score		121.16±20.33	73-174	
	Affiliative humor	42.11±7.44		
Harmonious/ Positive Humor	Self-enhancing humor	35.05±8.86	Harmonious/ Positive Humor	
	Aggressive humor	18.89±7.01		
Incompatible/ Negative Humor	Self-defeating humor	25.09±8.18	Incompatible/ Negative Humor	

2.5. Analysis

The data were analyzed using the Statistical Package for Social Science (SPSS, Inc.; Chicago, IL, USA, version 23) at a significance level of 0.05. The descriptive data were analyzed using mean, standard deviation, frequency, and percentage. The statistical data were analyzed using independent sample t-test, ANOVA, Mann-Whitney U test, Kruskal Wallis test, and Correlation test.

2.6. Ethical Considerations

The study was approved by the Gümüşhane University Scientific Research and Publication Ethic Committee (approval no:26753 date:08/07/2020). All nursing students were informed of the research purpose, procedure, and confidentiality before participation. Permission was obtained from the developers of the scales. All stages of the research adhered to ethical principles.

3. Results

Table 2 shows the distribution of BLOCS scores by sociodemographic characteristics. Participants who loved children, enjoyed spending time with them, were comfortable being around them, and would like to work in pediatric clinics had higher BLOCS scores (p<0.01). Female participants had a higher mean BLOCS score than their male counterparts (p<0.05). Participants who had to take care of children had a higher mean BLOCS score than those who did not (p<0.05). Participants who could communicate with children had a higher mean BLOCS score than those who could not (p<0.05). Age and the number of siblings had no significant effect on BLOCS scores (p>0.05). (Table 2).

Table 3 shows the distribution of BES scores by sociodemographic characteristics. Participants 20-22 years of age had a higher mean BES "affective empathy" subscale score than those 23-24 years of age (p<0.01). Female participants had a higher mean BES "affective empathy" subscale score than their male counterparts (p<0.01). Participants who had to take care of children had higher BES total and "affective empathy" subscale scores than those who did not (p<0.05). Participants who enjoyed spending time with children had a higher mean BES "affective empathy" subscale score than those who did not (p<0.05) (Table 3).

Table 4 shows the distribution of HSQ total and subscale scores by sociodemographic characteristics. Male participants had a higher mean HSQ "aggressive humor" subscale score than their female counterparts (p<0.05). Participants who had siblings had higher HSQ total and "self-improving humor" subscale scores than those who did not (p<0.05). Participants who did not have to take care of children had a higher HSQ "aggressive humor" subscale score than those who did (p<0.05). Participants who were uncomfortable being around children had a higher mean HSQ "self-defeating humor" subscale score than those who were not (p<0.05) (Table 4). Participants who had difficulty approaching sick children had a higher mean HSQ "self-defeating humor" subscale score than those who did not (p<0.05).

Table 5 shows the correlation between scale scores. There was a moderate and positive correlation between BES and BLOCS total scores (p<0.01). BLOCS total score was positively correlated with BES "affective empathy" subscale score (r=0.212, p<0.05). BLOCS total score was positively correlated with HSQ "self-enhancing humor" (r=0.230, p<0.05) and "affiliative humor" subscale scores (r=0.301, p<0.01). BLOCS total score was negatively correlated with HSQ "aggressive humor" subscale score (r=-0.358, p<0.01) (Table 5) (Figures 2 and 3).

4. Discussion

Nursing involves affection, communication, empathy, and humor (10, 12, 23). This study investigated the relationship between empathy, humor, and affection in nursing students. The results showed a positive correlation between BLOCS total score and BES "affective empathy" and HSQ "self-enhancing humor" and "affiliative humor" subscale scores.

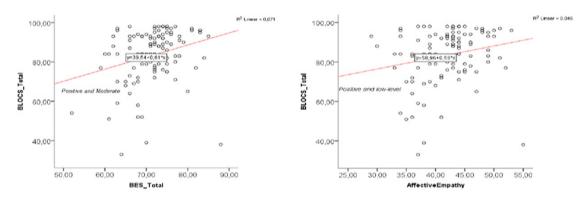


Figure 2: Correlation between BLOCS and BES total/affective empathy

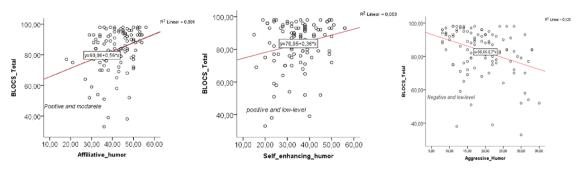


Figure 3: Correlation between BLOCS and affiliative, self-enhancing, and aggressive humor styles

Love is vital for children. The United Nations Declaration of the Rights of the Child also emphasizes it by stating that "... the child, for the full and harmonious development of his or her personality, should grow up... in an atmosphere of happiness, love, and understanding" (24). Our participants found to have high levels of affection. Akgun Kostak et al. (2017) (5), Bektaş et al. (2015) (4), Büyük et al. (2014) (25), Erdem and Duyan (2011) (23) reported similarly. Female participants had higher BLOCS scores than their male counterparts. Participants who had to take care of children had higher BLOCS scores than those who did not. Participants who loved children had higher BLOCS scores than those who did not. Participants who would like to work in pediatric clinics had higher BLOCS scores than those who would not (p<0.05). Aytekin (2019) (26) and Baran and Yılmaz (2019) (27) also found that female nursing students had higher BLOCS scores than their male counterparts. Research shows that nurses' BLOCS scores are affected by how many children they care for a day and how much they want to care for children (4, 27, 29). Pediatric healthcare workers are expected to be more self-sacrificing and affectionate than other healthcare workers. Pediatric patients may have difficulty communicating. Therefore, pediatric nurses should love children and know how to communicate with them (25, 29-31). Nursing students who could communicate with children had higher BLOCS scores than those who could not. Participants who enjoyed spending time with children had higher BLOCS scores than those who did not. Nursing students who were comfortable being around children had higher BLOCS scores than those who were not. Bektaş et al. (2015) (4) and Büyük, Rızalar, Gudek, and Oguzhan (2014) (25) also found that nurses and nursing students who enjoyed

playing games with children and were happy to be around them had higher BLOCS scores. The more time nurses spend time with children, the greater the bond they form with them, and the more affection they show towards them (1). Nurses should know how to communicate with children to be able to determine and meet their pediatric patients' needs

Nurses should use be able to empathize and communicate with children and show love and attention to them. Empathy is an important factor affecting behavior (11). The ability to empathize is one of the critical nursing competencies. Nurses with empathy skills are better at understanding patients and determining their needs (12). Empathy is even more important for nurses to understand patients, especially pediatric patients, who have difficulty expressing themselves verbally (1). We found a moderate and positive correlation between BLOCS and BES scores. Kostak, Semerci, and Kocaaslan (2017) (5) and Durmuşoğlu and Erbay (2013) (32) also reported that the more affectionate the teachers were towards children, the more they could empathize with them. Participants 20-22 years of age had higher BES "affective empathy" subscale scores than those 23-24 years of age (p<0.05). Khademalhosseni et al. (2014) (33) also detected a positive correlation between age and empathy skills in medical students. Nursing students are the healthcare professionals of the future who are supposed to provide quality care. Therefore, it is worrying that our participants had low affective empathy levels. Our female participants had higher BES "affective empathy" subscale scores than their male counterparts, which was also reported by Khademalhosseini, Khademalhosseini, and Mahmoodian (2014).

However, gender may not have an impact on empathy because the difference in affective empathy between male and female participants may be due to sociocultural factors. Another interesting result was that participants who had to care for children had higher affective and basic empathy levels than those who did not (p<0.05). Bektaş et al. (2015) (4) also found that nursing students who had taken care of children before were more affectionate towards children than those who had not. Therefore, we can conclude that nursing students who take, or have taken, care of children show more affection towards children and have higher affective and basic empathy levels.

Hospitalized children need more affection and attention (25) because hospitalization is a traumatic experience for them.

Nurses using humor can develop a sense of trust with patients and help them cope with their conditions (20, 21). Research shows that nurses generally use positive humor more than negative humor (34). For example, they use self-enhancing humor to cope with negative emotions. We found a positive correlation between affection (BLOCS) and positive styles of humor (HSQ self-enhancing and affiliative humor). We also detected a negative correlation between affection and aggressive humor, which is associated with impaired interpersonal communication, anger, and aggressive attitudes (35). Our male participants used aggressive humor more frequently than their female counterparts (p<0.05), which has also been reported by Martin, Puhlik, Larsen, Gray, and Weir (2003).

Table 2. Distribution of BLOCS Scores by Sociodemographic Characteristics (n=113)

Variables	n(%)	BLOCS Total (X±Ss)	Tested	р
Age (years)				
20-22	94 (%83.9)	83.35±13.97	0.167	0.867
23-24	18 (%16.1)	83.94±12.72	-0.167	
Gender				
Female	71 (%63.4)	85.77±12.45	2.442	0.017*
Male	41 (%36.6)	79.41±15.00	2.413	
Having siblings				
Yes	104 (%92.9)	83.61±13.83	0.750	
No	8 (%7.1)	81.25±12.82	-0.758	0.449*
Childcare status				
Yes	52 (%46.4)	86.86±13.35	2.512	0.013*
No	60 (%53.6)	80.48±13.45	2.512	
Loving children				
Yes	104 (%92.9)	85.75±10.58	4 2 7 7	0.001*
No	8 (%7.1)	53.50±15.35	-4.377	
Difficulty communicating with children				
Yes	9 (%8.0)	64.33±18.78	-3.365	0.001*
No	103 (%92.0)	85.11±11.92		
Enjoying spending time with children				
Yes	96 (%85.7)	87.07±9.49	-5.623	0.001**
No	16 (%14.3)	61.68±15.31	-5.025	
Being uncomfortable around children				
Yes	12 (%10.7)	63.33±19.54	-4.017	0.001**
No	100 (%89.3)	85.86±10.67	-4.017	
Difficulty approaching sick children				
Yes	42 (%37.5)	77.97±15.11	-3.421	0.001*
No	70 (%62.5)	86.72±11.75	-3.421	
Difference between showing affection towards sick and health	y children			
Yes	37 (%33.0)	81.62±16.68	-0.886	0.379*
No	75 (%67.0)	84.34±12.02	-0.000	
Effect of pediatrics course on approach to children				
Yes	93 (%83.0)	84.52±12.71	1.863	0.065*
No	19 (%17.0)	78.15±17.31	1.005	
Willingness to work in pediatric clinics				
Yes	66 (%58.9)	87.98±9.25	4.548	0.001*
No	46 (%41.1)	76.93±16.35	1.570	

Note. *: Independent Samples T-Test, **: Mann Whitney-U, p>0.05, p<0.01

 $Table\ 3.\ Distribution\ of\ BES\ Scores\ by\ Sociodemographic\ Characteristics\ (n=113)$

Variables	n(%)	Cognitive Empathy (X±Ss)	Affective Empathy (X±Ss)	BES Total (X±Ss)
Age (years)				
20-22	94 (%83.9)	29.39±2.88	42.60±4.60	72.00±6.09
23-24	18 (%16.1)	30.72±3.62	38.77±5.29	69.50±4.93
Test(t)*/p		0.172/0.090	3.100/0.002	0.652/0.103
Gender				
Female	71 (%63.4)	29.70±2.94	43.50±4.83	73.21±5.61
Male	41 (%36.6)	29.43±3.22	39.36±4.09	68.80±5.42
Test(t)*/p		0.443/0.659	4.606/0.000	4.023/0.000
Having siblings				
Yes	104 (%92.9)	29.49±3.06	41.80±4.96	71.29±5.85
No	8 (%7.1)	31.12±2.35	44.37±4.95	75.50±6.18
Test(t)**/p		-1.591/.112	-1.553/.120	-1.704/0.088
Childcare status				
Evet	52 (%46.4)	29.84±3.10	43.11±5.09	72.96±5.79
Hayır	60 (%53.6)	29.40±2.99	41.01±4.71	70.40±5.88
Test(t)*/p		.863/.441	2.264/0.026	2.299/.023
Loving children				
Yes	104 (92.9)	29.57±3.06	42.02±4.88	71.58±5.78
No	8 (7.1)	30.25±3.45	41.50±6.50	71.75±8.39
Test(t)**/p		-0.858/0.391	-0.895/0.371	-0.594/0.552
Difficulty communicating with children	1			
Yes	9 (%8.0)	30.33±3.04	44.44±6.82	74.77±8.65
No	103 (%92.0)	29.54±3.04	41.77±4.77	71.32±5.63
Test(t)**/p		-0.564/0.573	-0.821/0.411	-0.896/0.370
Enjoying spending time with children				
Yes	96 (%85.7)	29.55±3.13	42.21±4.82	71.77±5.79
No	16 (%14.3)	29.93±2.46	40.62±5.84	70.56±6.92
Test(t)**/p		-0.750/0.453	-1.985/0.047	-1.729/0.084
Being uncomfortable around children				
Yes	12 (%10.7)	29.58±2.81	41.66±5.59	71.25±7.07
No	100 (%89.3)	29.61±3.08	42.03±4.93	71.64±5.84
Test(t)**/p		-0.110/0.913	-0.798/0.425	-0.716/0.474
Difficulty approaching sick children				
Yes .	42 (%37.5)	29.50±2.95	42.33±4.57	71.83±5.85
No	70 (%62.5)	29.67±3.11	41.78±5.23	71.45±6.04
Test(t)*/p		-0.288/0.774	0.561/0.576	0.322/0.748
Difference between showing affection	towards sick and healthy	, children		
Yes .	37 (%33.0)	29.18±2.71	42.56±5.13	71.35±6.13
No	75 (%67.0)	29.81±3.18	41.70±4.91	71.52±5.90
Test(t)*/p		-1.022/0.309	0.859/0.392	0.197/0.844
Effect of pediatrics course on approach	to children			
⁄es	93 (%83.0)	29.58±3.12	41.88±4.98	71.46±6.01
No	19 (%17.0)	29.73±2.66	42.52±5.10	72.46±5.74
Test(t)*/p		-0.203/0.839	-0.512/0.610	-0.532/0.595
Willingness to work in pediatric clinics				
Yes	66 (%58.9)	29.60±3.06	41.63±4.95	71.24±5.83
No	46 (%41.1)	29.60±3.04	42.50±5.04	72.10±6.15
Test(t)*/p		-0.004/0.996	-0.901/0.369	-0.756/0.451

Note. *: Independent Samples T-Test, **: Mann Whitney-U, p>0.05, p<0.01

 $Table\ 4.\ Distribution\ of\ HSQ\ Scores\ by\ Sociodemographic\ Characteristics\ (n=113)$

Variables	m(0/)	Harmonious /	Positive Humor	Incompatible /	Negative Humor	
Variables	n(%)	Affiliative Humor (X±Ss)	Self-enhancing Humor (X±Ss)	Aggressive Humor (X±Ss)	Self-defeating Humor (X±Ss)	HSQ Total (X±S
Age (years)						
20-22	94 (%83.9)	42.05±7.13	34.98±8.43	18.48±6.91	25.04±7.85	120.57±18.84
23-24	18 (%16.1)	42.44±9.12	35.38±11.10	21.00±7.38	25.38±9.97	124.22±27.29
Test(t)*/p		-0.203/0.839	-0.174/0.862	-1.396/0.165	-0.164/0.870	-0.696/0.488
Gender						
Female	71 (%63.4)	42.39±7.58	34.98±9.13	17.21±6.41	24.15±8.37	118.74±20.56
Male	41 (%36.6)	41.63±7.25	35.17±8.46	21.80±7.14	26.73±7.67	125.34±19.46
Test(t)*/p		0.519/0.605	-0.106/0.916	-3.502/0.001	-1.616/0.109	-1.667/0.980
Having siblings						
Yes	104 (%92.9)	42.48±7.29	35.69±8.61	19.10±6.92	25.40±8.09	122.68±19.61
No	8 (%7.1)	37.37±8.26	26.75±8.31	16.12±8.06	21.12±8.85	101.37±20.38
Гest(t)**/р		-1.697/0.090	-2.545/0.011	-1.222/.222	-1.097/0.273	-2.363/0.018
Childcare status						
Evet	52 (%46.4)	43.17±7.78	36.19±9.33	17.07±6.03	24.46±8.92	120.90±21.32
Hayır	60 (%53.6)	41.20±7.07	34.06±8.38	20.46±7.46	25.65±7.51	121.38±19.60
est(t)*/p	00 (703310)	1.405/0.163	1.270/0.207	-2.616/0.010	-0.756/0.452	-0.124/0.902
oving children		1.405/0.105	1.27 0/ 0.207	2.010/0.010	0.7 307 0.432	0.12-1/ 0.302
es	104 (%92.9)	42.23±7.47	35.29±8.83	18.61±6.87	24.75±8.09	120.89±20.37
No	8 (%7.1)	40.62±7.26	31.87±9.12	22.50±8.34	29.62±8.53	124.42±20.75
est(t)**/p	8 (707.1)	-0.616/0.538	-0.928/0.354	-1.267/0.205	-1.465/0.143	-0.616/0.538
Difficulty communicating	ag with children	-0.010/0.550	-0.920/0.334	-1.207/0.203	-1.403/0.143	-0.010/0.330
		38.44±10.71	30.11±10.01	21.77±7.13	27.55±10.82	117.88±28.89
es	9 (%8.0)					
No Tast(t)**/a	103 (%92.0)	42.43±7.06	35.48±8.67	18.64±6.98	24.88±7.94	121.44±19.58
est(t)**/p		-0.948/0.343	-1.415/0.157	-1.238/0.216	-0.605/0.545	-0.348/0.728
Enjoying spending time		42.52.7.20	25.62.0.60	10 20 : 6 74	24.72 : 0.12	121 16 : 20 55
⁄es	96 (%85.7)	42.53±7.20	35.62±8.68	18.28±6.74	24.72±8.12	121.16±20.55
No	16 (%14.3)	39.62±8.54	31.62±9.42	22.56±7.71	27.31±8.49	121.12±19.59
est(t)**/p		-1.132/0.258	-1.545/0.122	-1.960/0.050	-0.920/0.358	-0.162/0.871
Being uncomfortable ar						
es	12 (%10.7)	42.08±6.66	32.83±10.27	20.08±7.08	30.41±7.54	125.41±21.27
No	100 (%89.3)	42.12±7.56	35.32±8.69	18.75±7.03	24.46±8.05	120.65±20.26
Test(t)**/p		-0.066/0.947	-1.008/0.313	-0.527/0.598	-2.274/0.023	-0.984/0.325
Difficulty approaching s						
⁄es	42 (%37.5)	41.78±7.46	34.61±8.95	19.54±7.17	27.16±8.57	123.11±20.86
No	70 (%62.5)	42.31±7.47	35.31±8.85	18.50±6.94	23.85±7.73	119.98±20.00
est(t)*/p		-0.362/0.718	-0.400/0.690	0.763/0.447	2.103/0.038	0.788/0.432
Difference between sho	wing affection towar	ds sick and healthy childrer	1			
⁄es	37 (%33.0)	42.27±7.67	35.43±9.37	18.78±6.59	25.81±7.99	122.29±20.01
No	75 (%67.0)	42.04±7.37	34.86±8.65	18.94±7.25	24.74±8.30	120.60±20.59
Test(t)*/p		0.153/0.878	0.317/0.752	-0.115/0.909	0.645/0.520	0.414/0.680
ffect of pediatrics cour	se on approach to ch	ildren				
'es	93 (%83.0)	42.02±7.35	35.13±9.00	19.10±7.22	25.35±8.33	121.62±20.81
No	19 (%17.0)	42.57±8.05	34.63±8.33	17.84±5.96	23.84±7.47	118.89±18.11
est(t)*/p		-0.296/0.768	0.227/0.821	0.715/0.476	0.732/0.465	0.531/0.596
Willingness to work in p	ediatric clinics					
⁄es	66 (%58.9)	42.18±7.12	35.33±9.01	18.12±6.78	24.03±8.08	119.66±20.55
No	46 (%41.1)	42.02±7.95	34.65±8.71	20.00±7.26	26.63±8.17	123.30±20.04
Test (t)*/p		0.111/0.911	0.399/0.691	-1.400/0.164	-1.667/0.098	-0.931/0.354

Note. *: Independent Samples T-Test, **: Mann Whitney-U, p>0.05, p<0.01

Table 5. Correlation between Scale Scores (n=113)

	BLOC	BLOCS Total		
	r	р		
Basic Empathy Scale Total	0.266	0.005**		
Cognitive Empathy	0.174	0.067		
Affective Empathy	0.212	0.025*		
Humor Styles Questionnaire Total	0.017	0.859		
Affiliative Humor	0.301	0.001**		
Self-Enhancing Humor	0.230	0.015*		
Aggressive Humor	-0.358	0.000**		
Self-Defeating Humor	-0.174	0.066		

5. Strengths and Limitations

This is the first study to investigate the relationship between affection, empathy, and humor in nursing students. We think that our results will contribute to the literature and pave the way for further research. The study had one limitation. The sample consisted only of nursing students, and therefore, the results cannot be generalized. Future studies should recruit larger sample groups.

6. Conclusion and Recommendations

This paper was examined the relationship between affection, empathy, and humor in nursing students. Nursing students show high levels of affection towards children. Those who can empathize with children and use humor are more affectionate towards children. Therefore, nursing curricula should provide training on empathy and humor to help students acquire those skill sets. Affection, empathy, and humor depend on sociodemographic characteristics. Future studies should recruit larger sample groups with different sociodemographic backgrounds to better understand the mechanisms underlying the relationship. More qualitative research is warranted to explain and contextualize these findings.

Based on the results, we can conclude that nurses should empathize with pediatric patients and use humor to show more affection towards them. Determining the relationship between affection, empathy, and humor in nursing students can help researchers and policymakers elevate the standards of pediatric nursing practice.

7. Contribution to the Field

This is the first study to look into the relationship between affection, empathy, and humor in nursing students. Therefore, we think that the results will contribute to the literature and guide nursing students considering pursuing careers in pediatric nursing.

Conflict of Interest

This article did not receive any financial fund. There is no conflict of interest regarding any person and / or institution.

Authorship Contribution

Concept: VAC, UG, BA; Design: VAC, UG; Supervision: VAC, UG, BA; Funding: VAC; Materials: VAC; Data Collection/ Processing: VAC, UG, BA; Analysis /Interpretation: VAC, UG; Literature Review: VAC, UG, BA; Manuscript Writing: VAC, UG, BA; Critical Review: VAC, UG, BA.

References

- 1. Hockenberry MJ. Children, their families, and the nurse. Wilson D, Rodger CC, editör. Wong's nursing care of infants and children; 2018.p.64-80
- 2. Üstün G, Erşan E, Kelleci M. Evaluation of the psychosocial symptoms by several variables in the hospitalized children. Cumhuriyet Med J 2014;36(1):25-33.
- **3.** Chen CW, Su TJ, Yang CY, Liu YY, Feng RF. Subjective experiences of nursing students' in a pediatric practicum. Fu-Jen J Med 2009;7(4):171-80.
- 4. Bektaş M, Ayar D, Bektaş İ, Selekoğlu Y, Akdeniz KA, Sal AS. Determining the factors that influence nursing students' affection for children. Pediatr. Res 2015;2(1):37-41.
- 5. Kostak MA, Semerci R, Kocaaslan EN. Level of nurses' liking children and attitudes of child rising. Gümüşhane University J. Health Sci 2017;6(4):146-155
- **6.** Uğurlu CT. Communication skills of teachers and the effect of emphatic tendency behavior on levels o liking of children. Pegem J. Educ Instr 2013;3(2):51-61.
- **7.** Kaukiainen A, Björkqvist K, Lagerspetz K, Österman K, Salmivalli C, Rothberg S, Ahlbom A. The relationships between social intelligence, empathy, and three types of aggression. Aggressive Behav: Official J Int Society Res Aggression 1999;25(2):81-89.
- **8.** Depalmas C, Allodola VF. Deception of empathy in the health sector. From empathy to exotopia: dichotomy of meaning through the reflective use of films. Tutor 2013;13(1):22-31.
- **9.** Tutuk A, Al D, Doğan S. Determining communication skills and emphatic levels of nursing students. J Cumhuriyet University Sch Nurs 2002;6(2):36-41.
- **10.** Del CS, Louis DZ, Maio V, Wang X, Rossi G, Hojat M, Gonnella JS. The relationship between physician empathy and disease complications: an empirical study of primary care physicians and their diabetic patients in Parma, Italy. Acad Med 2012;87(9):1243-1249.
- **11.** Hojat M, Louis DZ, Markham FW, Wender R, Rabinowitz C, Gonnella JS. Physicians' empathy and clinical outcomes for diabetic patients. Acad Med. 2011;86(3):359-364.
- **12.** Dowling JS. Humor: A Coping Strategy for. Pediatr Nurs 2002;28(2):123-131.
- **13.** Isola A, Astedt KP. Humour as experienced by patients and nurses in aged nursing in Finland. Int J Nurs Pract 1997;3(1):29-33.
- **14.** Beck CT. Humor in nursing practice: a phenomenological study. Int J Nurs Stud 1997;34(5):346-352.
- **15.** Astedt KP, Isola A. Humour between nurse and patient, and among staff: analysis of nurses' diaries. J Adv Nurs 2001;35(3):452-458.
- **16.** Mallett J, A'hern R. Comparative distribution and use of humour within nurse-patient communication. International J Nurs Stud 1996;33(5):530-550.
- 17. Barnett MA, Sinisi CS. The initial validation of a liking of children scale. J Pers Assess 1990;55(1-2):161-167.
- **18.** Duyan V, Gelbal S. The adaptation study of Barnett liking of children scale to Turkish. Educ Sci 2008;33(148):40.
- **19.** Jolliffe D, Farrington DP. Development and validation of the Basic Empathy Scale. J Adolesc 2006;29(4):589-611.
- 20. Topçu Ç, Baker ÖE, Çapa AY. Turkish adaptation of basic empathy scale: Validity and reliability study. Turk Psychol Couns Guid J 2010;4(34):174-180
- **21.** Martin RA, Puhlik DP, Larsen G, Gray J, Weir K. Individual differences in uses of humor and their relation to psychological well-being: Development of the Humor Styles Questionnaire. J Res in Pers 2003;37(1):48-75.

- **22.** Yerlikaya EE, İnanç B. Validity and reliability study of Humor Styles Scale. VII. National Psychological Counseling and Guidance Congress, Malatya, Türkiye, 9-11 July. 2003:30-31.
- 23. Erdem Y, Duyan V. A determination of the factors that affect the level of pediatric nurses' liking of children. Turk J Med Sci 2011;41(2):295-305.
- **24.** Unicef. Convention on the Rights of the Child text, 2019. Retrieved Feb 2, 2021 available from: https://www.unicef.org/child-rights-convention/convention-text
- **25.** Büyük ET, Rızalar S, Gudek SE, Oguzhan H. Analyzing liking of children and parenting attitudes of nurses working in pediatric and adult clinics. J Ped Res 2014;1(3):130-137.
- **26.** Aytekin A. Effect of Pediatric Nursing Course on the Students' Attitudes Towards Children and their Levels of Liking of Children. Pediatr Pract Res 2019;7(4):132-136.
- **27.** Baran G, Yılmaz G. Investigation of the status of liking children of the nursing students taking applied course of nursing on children's health and diseases, and the effective factors. JAREN 2019;5(2);91-96.
- **28.** Asci Ö, Gökdemir F, Altuntas, G. Views of nursing students regarding having children and their status of liking children. Int Refereed J Nurs Res 2017;(10):18-35.
- **29.** Atli A, Kutlu M. A study about empathenic tendecy levels of employees working in the orphaneges. Society Soc Work 2012;23(1):49-66.
- **30.** Akgün KM. The effect of nursing and maternity students 'liking child like status, child health and diseases nursing. Cumhuriyet Nurs J 2013;2(1):50-56.
- **31.** Boztepe H. Pediatric nurse views regarding parental presence during a child's painful procedures. J Turk Society Algol 2012;24(4):171-180.
- **32.** Durmuşoğlu SN, Erbay F. Examination of speaking, listening, empathy skills of preschool teachers in terms of liking of children. J Ahi Evran Uni Kırsehir Educ Fac 2013;14(1):159-174.
- **33.** Khademalhosseini M, Khademalhosseini Z, Mahmoodian F. Comparison of empathy score among medical students in both basic and clinical levels. J Adv Med Educ Prof 2014;2(2):88.
- **34.** Bagcivan G, Unal M, Akin A, Cinar FI, Ozen N. Nursing and humor: do the departments where nurses work affect their humor styles?. J Educ Res Nurs 2016:13(2):95-101.
- **35.** Özbay Y, Palancı M, Kandemir M, Çakır O. Prediction of subjective well-being of university students via self regulation, humour, social selfefficacy ans stress coping strategies. J Turk Educ Sci 2012;10(2):341-345