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Determination of Nursing Undergraduate Students' Attitudes Towards Persons with Disabilities

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ABSTRACT

Objective: To determine the attitudes of nursing students toward persons with disabilities. **Materials and Methods:** This descriptive and correlational study's population comprised nursing faculty students (N=786). The sample size was calculated using the formula "when the universe is certain," resulting in a sample of 259 students. Data were collected between March and June 2023 using the Information Form and the Multidimensional Attitudes Scale toward Persons with Disabilities (MAS). Data analysis was performed using the SPSS 22.0 program, employing descriptive statistics and parametric or non-parametric tests for comparative data.

Findings: Most students stated no persons with disabilities among their family members or friends. It was found that more than half of the students did not care for disabled people in clinical practice. The mean score for the cognitive sub-dimension of the MAS was higher for students aged 20 and younger than for students aged 20 and older (MW-U=7072.5/ p=0.041). Also, the mean score for the emotional sub-dimension of the MAS scale was higher among students with disabled friends (t=1.392 p=0.036). The mean score for the behavioural sub-dimension differed between students' enrolled classes. The post hoc analysis showed that students in the second class had higher mean scores for behaviours than students in the fourth class, which was statistically significant. (F=2.752/p=0.043). Also, it was determined that the source of information about disability and the experience of caring for a person(s) with disabilities affected the MAS scale score of the students in terms of total score or sub-dimension scores (p<0.05).

Conclusion: Nursing students' attitudes toward persons with disabilities were affected by age, status of having a person with disabilities among their friends, enrolled class, source of information about disability, and experience of caring for a person(s) with disabilities. While students' attitudes are generally favourable, further studies utilizing alternative designs are advised to ascertain both explicit and implicit attitudes.

Keywords: Attitude, Disability, Nursing Student, Persons with disabilities.

INTRODUCTION

It is the most fundamental right of every human being to live without being subjected to adverse experiences such as discrimination, exclusion, and labelling. This can be achieved by prioritizing the values of equality, justice, and equity, as espoused in national and international documents [1-5]. Despite their significant presence in society, persons with disabilities

are often perceived as a minority group facing inequalities in meeting their needs, including participation, access to services, and the utilization of their rights [3, 6-9]. One of the most fundamental issues confronting individuals with disabilities is the inequality in health services they experience [7, 8, 10]. Barriers to access to health services (such as sociocultural, physical, financial, attitudinal, etc.) cause inequality in health [10-12]. In this context, negative attitudes towards persons disabilities, whether with personal, institutional, or governmental, represent a significant barrier to equality for persons with disabilities. By the traditional concept of attitude is approach, the comprised of three components: cognitive component, which encompasses and beliefs; the affective knowledge component, which pertains to emotional and motivational factors; and the behavioural component, which concerns motivation or action. and can be understood behavioural intentions. While attitudes and behaviours are related, they are not always aligned. An individual may hold a particular belief or have a specific emotional response to a problem yet exhibit a behavioural approach contrary to this initial stance. Various factors can influence attitudes. including experience, values, and mutual contact with other individuals. Individual social and governmental attitudes interact; education is a important factor in forming attitudes [13, 14].

Undergraduate education is essential in professional shaping the roles. responsibilities, and attitudes of nursing persons with disabilities. In the historical development of undergraduate nursing education. theoretical and practical education models that move away from the medical model, reshaped with professional knowledge and theoretical approaches specific to nursing, sensitive to social and social needs and developments, theoretical and practical education models appear. In this context, it is essential to add important disability, subjects such as nursing approaches toward persons with disabilities,

communication with persons with disabilities and their families, etc., to the nursing curriculum. However, no quality, standardized, and universal education model currently includes these features in nursing education [5, 15-18].

In a study examining the status of education and curricula in nursing schools regarding the approach to the persons with disabilities, it was reported that nursing curricula were largely deficient in the approach to the persons with disabilities. The same study determined that more than half of the nursing curricula did not have content related to intellectual disability, and only 16% included preventive health and human rights issues [19]. However, while nursing students acquire the essential professional roles and responsibilities related to the approach to the persons with disabilities in undergraduate education, current scientific information in crucial areas such as ethical principles, professional codes, laws, human rights, individualized care, etc. should be included in the content of education [20-22]. In this context, it is essential to determine the current situation related to the care of disabilities with persons in nursing education, and research for nursing students should be planned and implemented. This study aimed to determine the views and attitudes of undergraduate nursing students toward persons with disabilities.

MATERIALS & METHODS

Study Design, Sample and Setting

A cross-sectional descriptive study was conducted among nursing students of one Faculty of Nursing between March and June 2023. The study population comprised 786 students, of whom 259 were selected using the sample calculation formula with a known population. Data were collected from each class by stratifying the students according to the classes they enrolled (students enrolled 1st class=64; students enrolled 2nd class=70; students enrolled 3rd class=54; students enrolled 4th class=71).

Data Collection

Information Form and the Multidimensional Attitudes Scale toward Persons with Disabilities (MAS). were used to collect quantitative data.

Information Form: The form was prepared by the researchers for this study according to the relevant literature [23-25] and comprised 23 questions. Before the form was applied to the students, it was submitted for review by ten experts in the field of nursing. Expert opinions were received using the Polit-Beck Method. The form was finalized after the experts' recommendations. The ten experts' grades were analysed using content validity analysis; the content validity index (S-CVI) was 0.90.

MAS: The scale was developed to assess the (affective. multidimensional cognitive. behavioural) attitudes toward persons with disabilities ^[26]. The scale is a 5-point Likert scale with three sub-dimensions and 31 (affective=14 items, cognitive=9 items items, behavioural=8 items). On the scale, 11 items in the affective dimension (1, 2, 3, 4, 5, 9, 10, 11, 12, 14, 15) and six items in the behavioural dimension (1, 2, 3, 4, 5, 6) are negative. After these items are reverse coded when calculating the scale score, scores can be calculated separately for each dimension and total scale. The score that can be obtained from the scale varies between 31 and 155 points. A high score indicates a positive attitude. The Cronbach's alpha values calculated by Yelpaze and Türküm (2018) for the reliability of the scale were found to be 0.90 for the total scale, 0.88 for the affective sub-dimension, 0.89 for the cognitive sub-dimension and 0.84 for the behavioural sub-dimensions [27].

Ethics approval and consent to participate

Ethical approval was obtained from the University's Non-Interventional Clinical Research Ethical Committee of Nursing Faculty (Meeting Date: 30th November, 2022; Number of Decision: 2022/63). Written institutional permission was provided. The researchers informed nursing students about the study's aim and method and obtained written consent forms from them.

STATISTICAL ANALYSIS

Statistical analysis was performed using IBM SPSS Statistics 22 software. Descriptive statistics, t-tests, Mann Whitney U tests, ANOVAs, and Kruskall Wallis H tests were performed. A Gabriel analysis was conducted in the post hoc analysis of the ANOVA, and p-values of <0.05 were considered significant.

RESULT

The mean age of the study participants was 20.83±1.54 years, and most were female. Multidimensional Attitudes toward Persons with Disabilities (MAS) 109.31±12.90 (minimum=49: maximum=139), and the mean scores of the sub-dimensions of the scale, including (minimum=18; affective [38.02±8.74 maximum=62)], cognitive [36.35±6.34 maximum=45)], (minimum=9; behavioural [35.94±4.96 (minimum=17; maximum=45)], were also determined. It was found that more than half of the students did not care for persons with disabilities in clinical practice. Nursing students' attitudes toward persons with disabilities were affected by age, status of having a person with disabilities among their friends, enrolled class, source of information about disability, and experience of caring for a persons with disabilities (Table 1).

A consideration of the opinions of the students about disability and person with disabilities revealed that most of students agreed with the views that "disability is a social problem" "person(s) with disabilities has little contribution to society." It was established that over half of the students expressed feelings of inadequacy in some areas related disability and disabled individuals. However, there significant was no difference between student nurses' views on disability and person with disabilities and perceptions of their competence related to disability and caring for person with disabilities with scores on the MAS (p>0.05) (Table 2).

Multidimensional Attitude Variable (n/%)	os seure towaru i ciso	MAS Scores	(11111) (11-437).		
variable (II/ /0)		Total x±ss	Affective x±ss	Cognitive x±ss	Behavioural x±ss
Age	18-20 years old (116/44.80)	110.82±13.22	38.28±8.73	37.14±6.39	35.40±5.18
	21-26 years old (143/55.20)	108.09±12.55	37.81±8.77	35.71±6.25	34.57±4.77
	Test statistics p value	t=1.699 p=0.509	t=3.899 p=0.001	MW-U=7072.5 p=0.041	t=1.329 p=0.930
Gender	Female (208/80.30)	109.19±13.03	37.10±8.51	36.86±6.18	35.23±5.07
	Male (51/19.70) Test statistics	109.82±12.44 t=-0.315	41.80±8.72 t=-3.523	34.25±6.61 t=2.662	33.76±4.33 t=1.900
	p value	p=0.934	p=0.834	p=0.241	p=0.192
Having person(s) with disabilities in the family	Yes (30/11.60) No (229/88.40)	112.20±10.97 108.93±13.10	39.30±7.94 37.86±8.84	37.10±5.75 36.25±64.2	35.80±5.31 34.83±4.92
uisabilities iii the family	Test statistics	t=1.306	t=0.851	t=0.691	t=1.007
Having person(s) with	p value Yes (42/16.20)	p=0.677 111.88±12.84	p=0.453 39.88±10.00	p=0.218 36.67±6.04	p=0.685 35.36±4.25
disabilities in the friends	No (217/83.80) Test statistics	108.82±12.88 t=1.412	37.67±8.45 t=1.392	36.29±6.41 t=0.356	34.86±5.10 t=0.591
	p value	p=0.772	p=0.036	p=0.914	p=0.460
Student's enrolled class	1 st class (64/24.70) 2 nd class	108.69±13.69 112.13±12.43	36.97±8.19 38.90±9.70	36.86±7.14 36.93±5.91	34.86±5.53 ^a 36.30±4.00 ^b
	(70/27.00) 3 rd class (54/20.80)	108.59±12.77	38.37±8.64	35.76±5.76	34.46±5.65°
	4 th class (71/27.40)	107.65±12.54	37.84±8.38	35.76±6.44	34.04±4.53 ^d
	Test statistics p value	KW-H=4.107 p=0.250	F=0.581 p=0.628	<i>KW-H=3.027</i> <i>p=0.387</i>	F=2.752 p=0.043 (b>d)
General Academic GPA(n=195) *	3.00 and below (97/49.70)	110.94±12.60	39.75±9.33	35.73±6.31	35.45±4.68
	3.01 and above (98/50.30)	108.11±12.62	37.00±8.29	366.2±5.80	34.50±4.85
	Test statistics p value	t=1.565 p=0.871	t=2.176 p=0.239	t=-1.026 p=0.156	t=1.412 p=0.318
Sources of information ab				2620 610	2407.502
Media and social platforms	Yes (229/88.40) No (30/11.60)	109.16±12.45 110.15±16.15	37.80±8.69 39.70±9.06	36.38±6.19 36.07±7.16	34.97±5.02 34.73±4.61
piationis	Test statistics p value	MW-U=-0.926 p=0.355	t=-1.118 p=0.788	MW-U=-0.136 p=0.892	MW-U=-0.51 p=0.606
Books and articles	Yes (211/81.50)	109.01±12.30	37.38±8.35	36.58±6.11	35.06±5.01
	No (48/18.50) Test statistics	110.63±15.35 MW-U=1.057	40.85±9.87 t=-0.932	35.33±7.24 MW-U=-0.926	34.44±4.77 MW-U=-1.11
	p value	p=0.290	p=0.351	p=0.355	p=0.265
Undergraduate education	Yes (208/80.30) No (51/19.70)	108.83±13.56 110,17±11,65	37.90±8.98 38,25±8,34	36.08±6.52 36,83±6,01	34.86±5.15 35.10±4.63
	Test statistics p value	t=-0.802 p=0.396	t=-0.308 p=0.375	t=-0.913 p=0.684	t=-0.375 p=0.251
Scientific activities	Yes (143/55.20)	109.24±12.35	37.59±8.15	36.73±6.22	34.92±5.11
	No (116/44.80) Test statistics	109.40±13.60 MW-U=8259.5	38.56±8.43 t=-0.891	35.87±6.47 t=1.091	34.97±4.81 t=-0.068
	p value	p=0.954	p=0.030	p=0.800	p=0.249
Social environment	Yes (139/53.70) No (120/%46.30)	110.95±13.00 107.42±12.56	38.83±9.48 37.09±7.74	36.68±6.02 35.97±6.69	35.45±4.43 34.36±5.49
	Test statistics p value	MW-U=7177.0 p=0.053	t=1.622 p=0.006	t=0.898 p=0.521	t=1.766 p=0.024
Caring for a person with di		1	p-0.000	p=0.341	p-0.024
Have experience	Yes (107/41.30)	108.38±14.22	38.28±9.60	35.45±6.99	34.64±5.08
	No (152/58.70)	109.97±11.88	37.84±8.11	36.98±5.77	35.15±4.89
	Test statistics p value	MW-U=7455.0 p=0.254	t=0.385 p=0.041	t=-1.925 p=0.070	t = -0.808 p = 0.515
	_				

Table 2. Comparison of nursing stude competence topic related to disability Attitudes Scale towards Persons with	and caring for	person(s) with disa			
	`	MAS Scores			
Variables (n/%)		Total x±ss	Affective $\bar{x}\pm ss$	Cognitive x̄±ss	Behavioural x±ss
Views on disability and person(s) with o	lisabilities	•	•	•	•
Disability is a social problem that	Yes (216/83.64)	108.55±12.70	37.89±8.52	35.84±6.43	34.81±4.76
affects many areas.	No (43/16.60)	113.14±13.37	38.67±9.87	38.88±5.22	35.58±5.90
	Test	t=-2.143	t=-0.534	t=-2.914	t=-0.924
	statistics p value	p=0.513	p=0.169	p=0.091	p=0.105
Person(s) with disabilities contributes little to society.	Yes (220/84.90)	110.24±14.41	38.71±9.07	36.53±6.16	35.00±4.59
	No (39/15.10)	109.15±12.65	37.91±8.70	36.31±6.38	34.93±5.04
	Test	t=-0.477	t=0.524	t=0.188	t=0.078
	statistics p value	p=0.279	p=0.646	p=0.775	p=0.862
The person(s) with disabilities has to adapt to the society.	Yes (92/35.50)	110.47±12.38	38.88±8.02	37.03±6.04	34.55±5.38
* · · · · · · · · · · · · · · · · · · ·	No (167/64.50)	108.68±13.17	37.55±9.10	35.97±6.48	35.16±4.72
	Test	t=1.070	t=1.173	t=1.293	t=-0.933
	statistics	p=0.988	p=0.228	p=0.660	p=0.133
	p value	Posses	P 0.220	P 0.000	P 0.122
Perceptions of their competence topic re		y and caring for per	son(s) with disal	bilities	1
I feel competent in issues relating to disability rights/laws.	Yes (66/25.50)	111.67±12.81	38.44±9.53	37.40±6.90	35.83±4.56
	No (193/74.50)	108.51±12.86	37.88±8.48	35.99±6.11	34.64±5.07
	Test	t=1.724	t=0.448	t=1.558	t=1.696
	statistics p value	p=0.875	p=0.422	p=0.089	p=0.505
I feel competent in ethical issues related to the person(s) with	Yes (138/53.30)	101.16±12.96	38.03±8.72	37.05±6.08	35.08±4.86
disabilities.	No (121/46.70)	108.35±12.82	38.02±8.79	35.55±6.55	34.79±5.10
	Test	MW-U=7759.0	t=0.011	t=1.917	t=0.476
	statistics p value	p=0.326	p=0.566	p=0.873	p=0.812
I feel competent in caring for the persons with disabilities and their	Yes (122/47.10)	109.86±12.40	37.85±9.03	36,80±6,13	35,21±4,87
families in relation to professional roles and responsibilities.	No (137/52.90)	108.82±13.36	38.18±8.50	35,95±6,52	34,70±5,05
1	Test	MW-U=7759.0	t=-0.292	t=1.073	t=0.829
	statistics p value	p=0.326	p=0.752	p=0.599	p=0.999
I feel competent in caring for the persons with disabilities and their	Yes (75/29.00)	110.96±12.92	38.51±9.48	37.32±6.18	35.13±4.93
families in different age groups.	No (184/71.00)	108.64±12.86	37.83±8.44	35.95±6.37	34.86±4.99
	Test statistics p value	t=1.314 p=0.884	t=-0.568 p=0.242	t=1.581 p=0.849	t=0.395 p=0.952
I feel competent to provide nursing care in diagnosis, treatment and	Yes (68/26.30)	108.85±12.54	36.91±8.90	37.31±6.70	34.63±5.20
rehabilitation processes.	No (191/73.70)	109.48±13.05	38.42±8,67	36.01±6.19	35.05±4.89
	Test statistics p value	t=-0.342 p=0.698	t=-1.222 p=0.917	t=1.459 p=0.357	t=-0.598 p=0.259
	r . mac	1	1	1	1

I feel competent to communicate with	Yes	110.26±12.61	37.53±9.08	37.38±6.29	35.35±4.89
the persons with disabilities and their	(135/52.10)				
families.	No	108.28±13.18	38.56±8.36	35.23±6.22	34.50±5.03
	(124/47.90)				
	Test	t=1.233	t=-0.941	t=2.764	t=1.376
	statistics	p=0.926	p=0.621	p=0.721	p=0.827
	p value				
I feel competent to provide counselling	Yes	110.52±11.72	37.73±8.22	37.79±5.99	35.00±4.86
to the persons with disabilities and	(71/28.20)				
their families.	No	108.84±13.33	38.14±8.96	35.78±6.40	34.92±5.02
	(186/71.80)				
	Test	t=0.944	t=-0.342	t=2.321	t=0.117
	statistics	p=0.219	p=0.170	p=0.823	p=0.869
	p value				

DISCUSSION

It is widely accepted that ensuring fair and equitable access to healthcare services for all members of society is a fundamental prerequisite of equality in health [10]. Persons with disabilities are groups with significant service health needs. encompassing general health, specialized disability-related health, and needs. However, they are a vulnerable and at-risk group in terms of experiencing inequality in health outcomes [8, 11, 12, 15]. In 2022, the World Health Organisation (WHO) once highlighted again the inequalities experienced by individuals with disabilities in the context of the United Nations Convention on the Rights of Persons with Disabilities (CRPD). The report states that health equality for people with disabilities is a global health priority and that one of the recommended actions to reduce preventable health inequalities is the education of health professionals [8]. It is, therefore, vital to increase awareness of health the towards individuals professionals with disabilities, beginning at the undergraduate level [10, 12]. In this context, nurses and other professionals require programs encompassing theoretical and practical areas, assessing their competencies regularly, and are developed by multidisciplinary and expert team in the field [17, 18, 28]

Education programs have been demonstrated to have several beneficial effects, including an enhancement of students' competencies, an increase in their confidence in caring for persons with

disabilities, expansion an of their professional skills, an improvement in their decision-making abilities. and advancement in their understanding of the equality of persons with disabilities [11, 12, 15, ^{28, 29]}. There is no standardized and universal nursing and medical education curriculum related to caring for persons with disabilities [10, 12, 30]. The difficulties in developing such curricula include the fact that persons with have different disabilities types disabilities, such as cognitive, hearing, vision, etc., the individual care needs of each individual, and the unique needs of every kind of disability [12, 31].

In our study, it was determined that the age of the students, the status of having persons with disabilities among their friends, the attended, they the source information about caring for the persons with disabilities and their families, and the experience of caring for the persons with disabilities in clinical practice affected the mean scores of the total score and some of the sub-dimensions of the MAS scale with a statistically significant difference (p<0.05). The findings align with those of previous studies in the literature. A review of the literature reveals that several factors, including gender, sociocultural age, background, educational status, working hours, and being a relative of persons with disabilities, can influence the attitudes of healthcare professionals toward persons with disabilities [32-35]. The experience of caring for a person with a disability facilitates interactions that influence the attitudes of students. Nevertheless, the

literature emphasizes that merely interacting with a disabled individual is insufficient for developing a positive attitude; an approach that emphasizes respect, tolerance, and effective communication is also necessary [13]. It is, therefore, crucial to integrate training into the nursing practical undergraduate curriculum, which should encompass the fundamental principles of care for disabled individuals, including human dignity, communication, and ethical considerations.

The findings of our study indicate that while most students surveyed expressed positive views toward persons with disabilities and acknowledged that disability is a social problem, they also demonstrated varying degrees of explicit and implicit prejudice. Explicit forms of prejudice included the belief that persons with disabilities contribute little to society, while implicit forms included the assumption that persons with disabilities must adapt to society. During our study, student nurses reported feelings of inadequacy in numerous areas about the care of individuals with disabilities. In the existing literature, it has that nurses' reported professional knowledge and skills, as well as deficiencies in communication, when the healthcare addressing needs individuals with disabilities, causes nurses to feel uneasy when working with such individuals, to experience communication problems, and to develop explicit or implicit negative attitudes about disability. Furthermore, studies have indicated that nurses may exhibit negative implicit attitudes despite their outwardly positive attitudes toward individuals with disabilities [34, 36, 37]. This is consistent with the perspective put forth by Fisher and Purcal (2016), which posits that personal attitudes and behaviours are interrelated but not necessarily identical. This perspective posits that an individual may hold a particular belief or attitude yet behave in a manner that is contrary to that belief or attitude [13]. Consequently, the explicit or implicit negative attitudes of nurses and other health

professionals towards disabled individuals may impede their ability to access health services in an equal, fair, equitable, and just manner [34, 36-38]. Negative attitudes held by nurses and other health professionals towards disabled individuals or disability will result in a reduction in the trust placed health professionals by disabled individuals due to the inability of the former to communicate effectively [39]. In this context, it is recommended that different teaching methods that address individual awareness and self-assessment be used in nursing education within the scope of approach to the disabled individual [36].

CONCLUSION

In this study, nursing students' attitudes toward persons with disabilities were affected by age, status of having a persons with disabilities among their friends, enrolled class, source of information about disability, and experience of caring for a person(s) with disabilities. While students' attitudes are generally favourable, further studies utilizing alternative designs are advised to ascertain both explicit and implicit attitudes. The data obtained are believed to be similar to the literature. The lack of standard. quality. educational curricula in our country and in the world regarding the care of disabled people and the inadequacy of theoretical and practical training in undergraduate education regarding the care of disabled people may affect the process. In light of the information obtained, we believe that students should be provided with theoretical and practical support in the field of care for the disabled.

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REFERENCES

- Stikholmen T, Nåden D, Alvsvåg H. Discovering dignity through experience: How nursing students discover the expression of dignity. *Nursing Ethics*. 2022; 29(1): 194-207. https://doi.org/10.1177/0969733021101204
- Çelik E. The UN Convention on Rights of Persons with disabilities in a decade and the spirit of the Conventio [in Turkish]. *Inonu University Law Review*. 2016; 7(1): 219-246.
- 3. Çıkrıkçı N, Çıkrıkçı Ö. Social life integration from the world of psychically disabled people [in Turkish]. *Milli Eğitim Özel Eğitim ve Rehberlik Dergisi*. 2022; 2(3): 92-121.
- 4. Sezer HN. Examining university students' views on special education and disability with the help of metaphors [in Turkish]. *TURKSOSBİLDER*. 2024; 9(1): 23-46.
- 5. Demir YE, Gedik M. Bibliometric analysis of academic publications on the concept of disabled with VOSviewer [in Turkish]. *Toplumsal Politika Dergisi*. 2022; 3(1): 12-25
- 6. Haegele JA, Hodge S. Disability discourse: Overview and critiques of the medical and social models. *Quest.* 2016; 68(2): 193-206. https://doi.org/10.1080/00336297.2016.114 3849.
- 7. Peker F, Köroğlu Ö, Yazicioglu K. Evaluation of the relationship between life satisfaction, selfesteem and social exclusion in individuals with acquired physical disabilities and the factors preventing social participation [in Turkish]. *Sosyal Politika Çalışmaları Dergisi.* 2024; 24(63): 407-431.
- 8. WHO. Global Report on Health Equity for Persons with Disabilities. 2022. URL: https://www.who.int/publications/i/item/978 9240063624.
- 9. Kaldık B. The basic expectations of individuals with visual and orthopedic disabilities from public institutions and the social structure within the scope of the problems they experience. *Uludağ University Faculty of Arts and Sciences Journal of Social Sciences*. 2022; 23(43):

- 975-1031. https://doi.org/10.29029/busbed.1029744.
- 10. Wolbring G, Deloria R. Health equity and health inequity of disabled people: A scoping review. *Sustainability*. 2024; 16(16): 7143-7193. https://doi.org/10.3390/su16167143.
- 11. Rotenberg S, Ryan S, Ziebland S, Ganle J. 'They are one of us': How disability training affects health workers' attitudes and actions towards disabled people in Ghana. SSM-Qualitative Research in Health.2024;5:100442-100447. https://doi.org/10.1016/j.ssmqr.2024.100442
- 12. Sinha T, Parish A, Lein Jr DH, Wylie E, Carver C, Brooks WS. Integration of disability awareness improves medical students' attitudes toward people with disabilities. *Medical Science Educator*. 2024; 34: 561-569. https://doi.org/10.12688/mep.20329.1.
- 13. Fisher KR, Purcal C. Policies to change attitudes to people with disabilities. *Scandinavian Journal of Disability Research*. 2017; 19(2): 161-174. https://doi.org/10.1080/15017419.2016.122 2303.
- 14. Radlińska I, Kożybska M, Karakiewicz B. Attitudes of Polish medical and health sciences students towards persons with physical disabilities using the MAS-PL Scale. *International Journal of Environmental Research and Public Health*. 2021;18(15):7787-7799. https://doi.org/10.3390/ijerph18157787.
- 15. Smeltz L, Havercamp SM, Meeks L. Aspiring to disability consciousness in health professions training. *AMA Journal of Ethics*. 2024; 26(1): 54-61.
- Tomczyszyn D, Pańczuk A, Ławnik A, Szepeluk A, Łaskarzewska K, Kobos E, et al. Nursing students' attitudes towards persons with physical disabilities. Crosssectional study. *Journal of Health Inequalities*. 2023; 9(2): 185-193. https://doi.org/10.5114/jhi.2023.133234.
- Soner G, Aydın Avcı İ. Nursing students' views and suggestions regarding the disability-friendly nursing education curriculum: A mixed method research. *Journal of Hacettepe University Faculty of Nursing*. 2023; 10(3): 246-255. https://doi.org/10.31125/hunhemsire.125380 1.

- 18. Gréaux M, Moro MF, Kamenov K, Russell AM, Barrett D, Cieza A. Health equity for persons with disabilities: a global scoping review on barriers and interventions in healthcare services. *International Journal for Equity in Health*. 2023; 22(1): 236-253. https://doi.org/https://doi.org/10.1186/s12939-023-02035-w.
- 19. Geçkil E, Kaleci E, Cingil D, Hisar F. The effect of disability empathy activity on the attitude of nursing students towards disabled people: A pilot study. *Contemporary Nurse*. 2017; 53(1): 82-93. https://doi.org/10.1080/10376178.2017.129 2143.
- 20. Bölüktaş RP, Zülfünaz Ö, Yıldırım D. Examination of the International Nursing Pledge in terms of professional values [in Turkish]. İstanbul Sabahattın Zaim Üniversitesi Sosyal Bilimler Dergisi. 2018; 6(13): 83-98.
- Sümen A. Comparing the Florence Nightingale Pledge with the International Nursing Pledge and evaluation them in terms of ethical principles: Review [in Turkish]. *Turkiye Klinikleri J Med Ethics*. 2017; 25(2): 43-48. https://doi.org/10.5336/mdethic.2017-56039.
- 22. Demirören N, Su S, Basit G. The effect of advocacy education of nursing students on attitudes towards disability: A quasi-experimental study. *International Journal of Nursing Education Scholarship*. 2022; 19(1): 20210164-20210172. https://doi.org/10.1515/ijnes-2021-0164.
- 23. Leal N, Eusebio C, Rosa MJ. Attitudes towards people with disabilities: A systematic literature review. *Revista Brasileira de Educação Especial*. 2020; 26(4): 577-598.
- 24. Subay N, Demircioğlu A, Karakaya Ş, Güler A, Bayram N, İntepe SS, et al. Attitudes and behaviors of nursing students at a state university against individuals with disabilities [in Turkish]. *Journal of Health Sciences and Management*. 2022; 2(3): 53-59. https://doii.org/10.29228/JOHESAM.14.
- 25. Polikandrioti M, Govina O, Vasilopoulos G, Adamakidou T, Plakas S, Kalemikerakis I, et al. Nursing students' attitudes towards people with disabilities. *International Journal of Caring Sciences*. 2020; 13(1): 480-488.

- 26. Findler L, Vilchinsky N, Werner S. The multidimensional attitudes scale toward persons with disabilities (MAS) construction and validation. *Rehabilitation Counseling Bulletin.* 2007; 50(3): 166-176.
- 27. Yelpaze İ, Türküm AS. Adaptation and validation of Turkey version of multidimensional attitudes toward persons with disabilities. *OPUS International Journal of Society Researches*. 2018; 8(14): 167-187.
- 28. Lee D, Pollack SW, Mroz T, Frogner BK, Skillman SM. Disability competency training in medical education. *Medical Education Online*. 2023; 28(1): 1-9. https://doi.org/10.1080/10872981.2023.220 7773.
- 29. Ratakonda S, Argersinger DP, Auchus GC, McGowan C, Ship H, Wang DR, et al. A call for disability health curricula in medical schools. *Trends in Molecular Medicine*. 2022; 28(12): 1012-1015.
- 30. Miner DC, Ailey SH, Thompson RA, Squires A, Adarlo A, Brown H. "We have met the enemy and it is us": Healthcare professionals as the barrier to health equity for people with intellectual and developmental disability. *Res Nurs Health*; 2024; 269-273. https://doi.org/10.1002/nur.22376.
- 31. Sinha T, Brooks WS, Parish A. 12 tips forincluding disability awareness within undergraduate medical education curricula. *MedEdPublish*. 2024; 14: 32-40. https://doi.org/10.12688/mep.20329.1.
- 32. Akca N, Şahin H, Çakmak A. Health workers' attitudes towards disabled people [in Turkish]. Socrates Journal of Interdisciplinary Social Studies. 2024; 10(42): 36-48. https://doi.org/10.5281/zenodo.11568913.
- 33. Acartürk M. Evaluation of preclinical dentistry students' perspectives towards disabled individuals before clinical internship training. *Eurasian Journal of Health Sciences*. 2024; 7(2): 106-112. https://doi.org/10.53493/avrasyasbd.145166.
- 34. Kritsotakis G, Galanis P, Papastefanakis E, Meidani F, Philalithis AE, Kalokairinou A, et al. Attitudes towards people with physical or intellectual disabilities among nursing, social work and medical students. *Journal of Clinical Nursing*. 2017; 26: 4951-4963. https://doi.org/10.1111/jocn.13988.

- 35. Keklicek İ, Ünsar A. Examination of the attitudes of students at the university level towards disabled individuals: Is there a positive effect of education in the field of health? An observational study [in Turkish]. İzmir Kâtip Çelebi Üniversitesi Sağlık Bilimleri Fakültesi Dergisi. 2021;6(3):149-157.
- 36. Derbyshire DW, Keay T. "But what do you really think?" Nurses' contrasting explicit and implicit attitudes towards people with disabilities using the implicit association test. *Journal of Clinical Nursing*. 2024; 00: 1-12. https://doi.org/10.1111/jocn.17097.
- 37. Mannor KM, Needham BL. The study of ableism in population health: A critical review. *Frontiers in Public Health*. 2024; 12: 1-16. https://doi.org/10.3389/fpubh.2024.1383150

- 38. Cleary J, Doody O. Nurses' experience of caring for people with intellectual disability and dementia. *Journal of Clinical Nursing*. 2017; 26(5-6): 620-631. https://doi.org/10.1111/jocn.13431.
- 39. Phillips KG, England E, Wishengrad JS. Disability-competence training influences health care providers' conceptualizations of disability: An evaluation study. *Disability and Health Journal*. 2021; 14(4): 101124-101130.

https://doi.org/10.1016/j.dhjo.2021.101124.

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