

## Stigma towards Patients with Mental Illness among Nursing Students

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**Abstract:** Stigma towards patients with mental illness is a worldwide and multifaceted phenomenon and there is a support that stigma and discrimination are also prevalent among health care team and health care students.

**Aim:** To assess stigma toward patients with mental illness among nursing students. **Methods:** Descriptive-correlation research design was used in this study. The sample consisted of 309 nursing students in the academic year 2014- 2015 they were chosen by systematic random sampling using official students' listing.

**Tools:** The data collected by the following tools, 1) Socio-Demographic characteristics of the students 2) Devaluation-Discrimination Scale, 3) Social Distance Scale, 4) Perceptions of Stigmatization by Others for Seeking Help and 5) Self-Stigma of Seeking Help. **Results:** The percentage of items showing signs of discrimination of mental patients in which 60.2% of the students refuse to accept a previous mental patient as their friends **Conclusion:** The present study revealed that stigma is common among nursing students and there was no difference in stigma toward patients with mental illness among nursing students in the different academic years. **Recommendation:** Reorient the education system in such a way that during learning psychiatric nursing course, an issue like stigma is also effectively dealt with.

**Keywords:** Stigma, Discrimination, Nursing Students, Mental Illnesses

Date of Submission: 28-03-2019

Date of acceptance: 13-04-2019

### I. Introduction

Mental illness is viewed to be the major cause of global disability. About 25% of all people are found to be affected by mental and behavioral disorders at some time during their lives. Stigma as a concept includes the sense of shame that lead to secrecy, which make a barrier in early diagnosis and treatment of mental illnesses. In addition, Mental illness is viewed to be the major cause of global disability. About 25% of all people are found to be affected by mental and behavioral disorders at some time during their lives. Stigma as a concept includes the sense of shame that leads to secrecy, which makes a barrier in early diagnosis and treatment of mental illnesses. In addition, stigma tends to affect the social relationship, education, work, and other community opportunities. Moreover, it can lead to social isolation, social exclusion, and discrimination (1&2).

Stigma has been described through; interpersonal interaction domain in which the major discriminating experience as reported by the mentally ill was the contact with the mental health professionals. In addition, the family members of the mentally ill expressed that mental health professionals did not appreciate their competence or experience in dealing with patients. In the second domain, structures discrimination, lack of support by the community services, lack of coordination, and no clear allocation of psychiatric responsibilities within mental health care as well as exclusion from the treatment process are the strongest form of this domain (3).

Stigma towards patients with mental illness comes from not only the general public, but also from mental health professionals, it could be expected that professionals within the health care system would have a more knowledge-based, reflected and realistic view of persons with mental health problems. The health care professionals share the general public attitude towards patients with mental illness (4&5).

Previous research found that mental health professionals were less optimistic about prognosis and long-term outcome when compared with the general public (6). Also, many studies show that nursing students have the same misconception as the public, they expecting mentally ill patients to be hostile, violent and likely to injure them. In a study measuring stigma towards mentally ill patients as perceived by nursing students, it was found that nursing students reported a high level of stigmatizing attitudes, including the assumption of dangerousness, unpredictability and a need for social distance (5 &7).

Stigma appears within the nursing students due to lack of knowledge, adopting negative attitudes and avoiding patients with psychiatric illness. If nursing education does not deal with stigma, it is likely that nursing

students and later on nurses will hold the same stigmatizing attitudes as have been found in the general public, including beliefs that persons with mental illness are not only in control of their illness but they caused it <sup>(8)</sup>.

So it proposed that nursing education can positively control these attitudes. Once student nurses have finished their mental health nursing course experiences, many of them express positive shifts in stigma towards persons with mental illnesses <sup>(9)</sup>.

**Aim of the Research:**

This research aimed to assess stigma toward patients with mental illness among undergraduate nursing students.

**Research Question:**

Is there a difference in stigma toward patients with mental illness among nursing students of different academic years?

**II. Subjects And Method**

**Research Design:** Descriptive- correlational research design.

**Setting:** The current study was carried out at the Faculty of Nursing, Mansoura University, Egypt. The Faculty has eight unlike scientific nursing departments, among which is the psychiatric and mental health nursing department.

**Subjects:** The subjects of the study included nursing students in the academic year 2014–2015. Their total number amounted to 309 students; 82 for the first academic year, 97 for the second academic year, 56 for the third academic year and 74 for the fourth academic year. They were chosen by systematic random sampling using official students' listing. The sample size was calculated through the following formula <sup>(10)</sup>.

$$n = [DEFF * Np(1-p)] / [(d^2 / Z^2_{1-\alpha/2} * (N-1) + p*(1-p)] = \dots\dots$$

As:

Population size (for finite population correction factor) (N): .....

Hypothesized % frequency of outcome factor in the population (p): 50% +/-5

Confidence limits as % of 100 (absolute +/- %) (d): 5%

Design effect (for cluster surveys-DEFF): 1

**Data Collection Tools:**

Five different tools were used for data collection.

**Tool 1: Socio-Demographic Scale:** This scale was developed by El-Gilany, A, El-Wehady, A, & El-Wasify, M (2012). It consists of 7 domains with a total score of 84. These domains are cultural domain, occupational domain for (student's father and mother), family, possessions, economic, home sanitation and health care domains. It is a valid and reliable scale (r= 0.66). The scoring system is 30 scores for the cultural domain, 10 scores for the occupational domain, 10 scores for the family domain, 12 scores for possessions domain, 5 scores for the economic domain, 12 scores for home sanitation and 5 scores for the health care domain <sup>(11)</sup>.

**Tool 2: Devaluation-Discrimination Scale:** This scale was developed by Link et al, 2004. It was used to assess the backing of matter thoughtful of perceived prejudiced behaviors of persons with psychiatric illness. It consists of 12 points, half of which are reverse scored. Responses are calculated on a 5-point scale ranging from 1 (not at all) to 5 (a great deal) devaluation and discrimination scale was reported to be valid and reliable, with Cronbach's alpha = 0.76 <sup>(12)</sup>.

**Tool 3: Social Distance Scale:** This scale was developed by Penn et al, 1994 to assess respondents' readiness to recognize psychiatric patients in a variety of roles as "a property-owner; as a neighbor". Also, the scale asks for self- report accounts of how a member might relate to a psychiatric ill patient. Like "How will you feel about renting a room to the psychiatric ill patient?" and "How will you feel about having a mentally ill patient to be your neighbor?". SDS consists of 7 points and uses a 4-point scale ranging from 1(definitely unwilling) to 4 (definitely willing). This scale is valid and reliable with Cronbach's alpha = 0.76 <sup>(13)</sup>.

**Tool 4: Perceptions of Stigmatization by Others for Seeking Help (PSOSH):** This scale was developed by Vogel etal, 2009 to assess the stigma linked with how participants will cognitively react to others for seeking help for psychiatric illness (e.g., "think bad things about them"). It consists of 5 items with a 5-point Likert-type scale ranging from 1 (not at all) to 5 (a great deal). Scores are summed so that higher scores represent greater stigma. PSOSH is valid and reliable with Cronbach's alpha = 0.78 <sup>(14)</sup>.

**Tool 5: Self-Stigma of Seeking Help (SSOSH):** This scale was developed by Vogel etal, 2006 to assess the stigma linked with how participants will perceive others' character for looking for help for a psychiatric illness. It has 10-items and 5-point likert-type scale ranging from 1 (strongly disagree) to 5 (strongly agree). Items 2, 4, 5, 7, and 9 are reverse-scored so that higher scores reveal high stigma. It is a valid and reliable scale with Cronbach's alpha = 0.86 <sup>(15)</sup>.

**Methods of data collection:**

Official permission was obtained from the responsible authorities of the Faculty of Nursing, Mansoura University, Egypt to carry out the study. Tools 2, 3, 4 & 5 were translated into the Arabic language. Study tools were tested for content validity by a jury of 5 experts in the psychiatric medical and nursing field and proved to be valid. A pilot study was carried out on 15 nursing students from each academic year in order to test the clarity and applicability of the study tools.

**Ethical considerations:**

- Students' informed consent to voluntarily participate in the study was obtained after explanation of the research aim.
- Students' right to participate or withdraw from the study was emphasized after reassuring them that their responses would have no impact on their grades.
- Students were reassured that the collected data would be treated with confidentiality and it would be used only for the purpose of the research.
- Students' privacy was respected.

**Statistical tests included:**

Data were coded, computed and analyzed by using SPSS version 16.0. Qualitative variables were presented using descriptive statistics in the form of frequencies & percentages and ( $\chi^2$ ) test was used for comparison. Quantitative variables were presented as means  $\pm$  standard deviations and student t test & F test were used for comparison. Statistical significance was considered at p-value <0.05.

### III. Results

**Table (1)** shows the characteristics of the studied students. Out of 309 students participated in this study; 82 were in grade I, 97 in grade II, 56 in grade III and 74 in the fourth grade. The student's age ranges from 18 years to more than 22 years, and the average ages significantly differed by grades. The percentage of male students represent one fifth in grade II to one third in grade IV. There is no significant difference between student gender, residence and socioeconomic status in different grades.

**Table (2)** shows Frequency distribution of Devaluation discrimination scale (DDS) among studied students. The percentage of items showing signs of discrimination of mental patients are clear like "I will eagerly accept a previous mental patient as my friend" where 60.2% of studied students respond by not at all and a little. Also, about 68.7% of the students respond by not at all, a little and some to "I will agree a fully improved previous mental patient as a teacher of young children in a public school". And, about 77.4% of the students respond by not at all, a little and some to "I will treat a previous mental patient just as treating anyone".

**Table (3)** shows Frequency distribution of Social Distance Scale (SDS) among studied students. It assesses respondent's willing to accept people with mental illness. The definitely willing response of the students to accept people with mental illness ranges from 4.2% to the question "How would you feel about renting a room in your home to a mentally ill patient?" to 14.2% to the question "How will you feel about recommending a mentally ill patient for a job working with somebody you know?".

**Table (4)** shows the frequency distribution of the Perceptions of Stigmatization by Others for Seeking Help (PSOSH) among studied students. The rate of the student's response as a great deal ranges from 2.6% to the item "React negatively to them" and 25.6% to the item "Think bad things about them".

**Table (5)** shows the Frequency distribution of the Self - Stigma of Seeking Help (SSOSH) among studied students. The percentage of the students' response as strongly agrees ranges from 1.3% (for 4 items of the scale) up to 15.9% to one item on the scale.

**Table (6)** shows that there is no significant difference between the average scores of the four scales in different grades.

**Table (7)** shows the Relationship between socio-demographic characteristics of the studied students and average total scores of the four scales. The average scores of the four scales do not significantly differed by students' age nor residence. Male students show a higher average score of all scales than females, but the difference is statistically significant with SDS (P 0.026) and SSOSH scale (P 0.006). The average scores of the scales slightly differed by the level of students' SES and the difference is statistically significant with SDS scale as the students of moderate SES respond with the highest average score.

### IV. Discussion

Stigma and discrimination towards patients with mental illness are well reported in the literature. There are studies assessing stigma of the general public or of some specific groups like university students towards people with mental illness <sup>(16)</sup>. However, taking into account the role of mental health professionals in destigmatization movement, the majority of studies have explored stigma of mental health professionals

themselves towards people with mental illness and surprisingly these studies reported that mental health professionals have less optimism and more negative view on long term prognosis of patients with mental illness (17).

The current study aimed to assess stigma among undergraduate nursing students through measuring four types of stigma: devaluation discrimination, social distance, cognitive response to people for seeking help and perceptions of the other's character for seeking help. In the present study, nursing students have been asked to imagine someone they know who sought treatment with mental illness and to what degree they would react to them, more than half of the studied nursing students think of them in a less favorable way and think they posed a risk to others. This result is in agreement with the findings in studies which had been found negative perceptions about people with schizophrenia among nursing students and the general population, respectively. This is important, being as dangerousness is one of the most common stigmatizing perception (18&19). The subsequent fear is an emotional aspect of the stigma that can become a prejudice (20). In another study, it was revealed that the students who label people experiencing mental disorders as being mentally ill patients are not significantly less ready to interrelate with them. And students are also significantly more likely to think that the people experiencing symptoms of schizophrenia would do something violent toward the others (21).

Majority of studies assessing stigma towards mental illness have adopted the conceptual framework which views mentally ill as lesser and ones requiring coercive handling and social restrictiveness which is considering mentally ill as threat to society (22&23), and these are consistent with the current study in which more than half of the nursing students represent discriminating behaviors towards patients with mental illness as they are unwilling to accept a mentally ill patient as a close friend and they view the mentally ill patients as less intelligent than other persons .

In response to social distance, more than half of the nursing students are unwilling to rent a room in their homes for mentally ill patients or working with a mentally ill person. In the previous research majority of the participants think that people with mental illness are dangerous because of violent behavior and they feel that they get ashamed if people knew someone in their family been diagnosed with mental illness (24).

The current study revealed that there is no significant difference between stigma and the different academic years and this result is inconsistent with previous research indicated that knowledge and attitudes influenced stigmatization. Theories about behavioral change and learning vary as to whether the knowledge gained through extrinsic reinforcement such as grades or positive remarks can be sustained in the long term (25).

As regards to the socio-demographic characteristics of the studied students and the total scores of the four scales, the present study showed that there is a significant difference between student' age and the four scales this may account for the fact that age didn't influence stigma in any of the scales. However, male students show a higher average score of all scales than female students and this result is consistent with previous research indicated that male students have a more negative overall opinion towards patients with mental illness than female students (26).

V. Tables

Table (1): Characteristics of the studied students

Character	Item	Grade 1 (82)		Grade 2 (97)		Grade 3 (56)		Grade 4 (74)		Significance test
		No	%	No	%	No	%	No	%	
Age	18-19 y	82	100.0	66	68.0	0	0.0	0	0.0	$\chi^2=38.210$ P 0.000
	20-21 y	0	0.0	26	26.8	55	98.2	16	21.6	
	22+	0	0.0	5	5.2	1	1.8	58	78.4	
	Mean±SD	18.24±0.43		19.91±2.24		20.39±0.53		22.12±0.76		
Sex	Males	22	26.8	19	19.6	18	32.1	25	33.8	$\chi^2=5.157$ P 0.161
	Females	60	73.2	78	80.4	38	67.9	49	66.2	
Residence	Rural	71	86.6	84	86.6	48	85.7	64	86.5	$\chi^2=0.029$ P 0.999
	Urban	11	13.4	13	13.4	8	14.3	10	13.5	
Socioeconomic score	Very low	14	17.1	27	27.8	10	17.9	19	25.7	$\chi^2=8.179$ P 0.516
	Low	25	30.5	21	21.6	11	19.6	14	18.9	
	Moderate	22	26.8	28	28.9	16	28.6	21	28.4	
	High	21	25.6	21	21.6	19	33.9	20	27.0	

Table (2): Frequency distribution of Devaluation discrimination scale (DDS) among studied students (309)

Items	Item	Not At All	A Little	Some	A Lot	A Great Deal
1. I will eagerly accept a previous mental patient as my friend.	No %	70 22.7	116 37.5	91 29.4	20 6.5	12 3.9
2. I will consider that a mentally ill patient is just as intelligent as the other persons.	No %	27 8.7	149 48.2	86 27.8	39 12.6	8 2.6
3. I think that a previous mentally ill patient is just as faith worthy as the other resident.	No %	36 11.7	79 25.6	128 41.4	62 20.1	4 1.3
4. I will agree to a fully improved previous mental patient to be a teacher of young children in a public school.	No %	34 11.0	77 24.9	120 38.8	61 19.7	17 5.5

5. I think that being hospitalized in a mental hospital is an indication of personal breakdown. (R)	No %	73 23.6	107 34.6	80 25.9	14 4.5	35 11.3
6. I will not accept to employ a previous mental ill patient to pay attention to my children, even if he or she had been fine for some time. (R)	No %	40 12.9	91 29.4	129 41.7	37 12.0	12 3.9
7. I believe less of a person who has been in a mental hospital. (R)	No %	36 11.7	116 37.5	97 31.4	56 18.1	4 1.3
8. If I were a manager, I would employ a previous mental ill patient, if he is competent for the work.	No %	43 13.9	68 22.0	105 34.0	71 23.0	22 7.1
9. If I were a manager, I would refuse the applicant of a previous mental patient in good turn of another applicant. (R)	No %	55 17.8	91 29.4	82 26.5	53 17.2	28 9.1
10. I will treat a previous mental patient just as treating anybody.	No %	56 18.1	88 28.5	95 30.7	44 14.2	26 8.4
11. I will be unwilling to meeting a person who has been hospitalized in a mental hospital for a severe psychiatric disease. (R)	No %	43 13.9	120 38.8	95 30.7	47 15.2	4 1.3
12. If I know a person in a psychiatric hospital, the majority of people will get his or her opinions less gravely. (R)	No %	58 18.8	59 19.1	122 39.5	45 14.6	25 8.1

**Table (3):** Frequency distribution of Social Distance Scale (SDS) among studied students (309)

Items	Item	Definitely Unwilling	Probably Unwilling	Probably Willing	Definitely Willing
1. How will you feel about renting a room in your home to a mentally ill patient?	No %	120 38.8	77 24.9	99 32.0	13 4.2
2. How will you feel about working with a mentally ill patient?	No %	20 6.5	154 49.8	116 37.5	19 6.1
3. How will you feel about having a mentally ill patient to be your neighbor?	No %	47 15.2	85 27.5	147 47.6	30 9.7
4. How will you feel about having a mentally ill patient to take care of your children?	No %	76 24.6	124 40.1	70 22.7	39 12.6
5. How will you feel about having your children marry someone with a mental illness?	No %	71 23.0	112 36.2	103 33.3	23 7.4
6. How will you feel about introducing a mentally ill patient to your close friends?	No %	51 16.5	96 31.1	121 39.2	41 13.3
7. How would you feel about recommending a mentally ill patient to work with someone you know?	No %	55 17.8	63 20.4	147 47.6	44 14.2

**Table (4):** Frequency distribution of the Perceptions of Stigmatization by Others for Seeking Help (PSOSH) among studied students (309)

Items	Item	Not At All	A Little	Some	A Lot	A Great Deal
1- Respond pessimistically to them.	No %	133 43.0	91 29.4	71 23.0	6 1.9	8 2.6
2- Think bad things about them	No %	8 2.6	29 9.4	92 29.8	101 32.7	79 25.6
3- See them as seriously disturbed	No %	70 22.7	97 31.4	91 29.4	34 11.0	17 5.5
4- Think of them in a less positive way	No %	14 4.5	37 12.0	50 16.5	139 45.0	69 22.3
5- Think they posed a risk to others.	No %	27 8.7	35 11.3	84 27.2	107 34.6	56 18.1

**Table (5):** Frequency distribution of the Self - Stigma of Seeking Help (SSOSH) among studied students (309)

Items	Item	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
1- If they went to a psychotherapist for psychological help I would feel they were inadequate.	No %	119 38.5	82 26.5	89 28.8	15 4.9	4 1.3
2- If they need professional help My self-confidence in them will NOT be endangered. (R)	No %	26 8.4	104 33.7	92 29.8	83 26.9	4 1.3
3- I will feel they are less intelligent if they require psychological help.	No %	41 13.3	127 41.1	100 32.4	6237 12.0	4 1.3
4- If they talk to a therapist Their self-esteem will improve. (R)	No %	23 7.4	54 17.5	90 29.1	93 30.1	49 15.9
5- My feel of them will not change just because they make the choice to visit a psychotherapist. (R)	No %	55 17.8	76 24.6	95 30.7	40 12.9	43 13.9
6-I will not think they are inferior because they just ask a therapist for help.	No %	41 13.3	65 21.0	135 43.7	46 14.9	22 7.1
7- If they decide to look for psychological support, I will believe satisfactory about them. (R)	No %	15 4.9	90 29.1	88 28.5	92 29.8	24 7.8
8-If they went to a psychotherapist; I will be less pleased with them.	No %	49 15.9	103 33.3	85 27.5	68 22.0	4 1.3

9-My self-confidence in them will stay the same if they required psychological support for a problem they could not resolve. (R)	No %	12 3.9	75 24.3	81 26.2	111 35.9	30 9.7
10- If they could not resolve their own psychological problems I will feel inferior about them.	No %	36 11.7	91 29.4	81 26.2	93 30.1	8 2.6

**Table (6):** Comparison of the average total scores of the four scales among students of different academic years

Academic year	No	DDS	SDS	PSOSH	SSOSH
		Mean ± SD	Mean ± SD	Mean ± SD	Mean ± SD
First	82	32.21±6.57	16.63±3.42	15.05±2.07	28.26±3.91
Second	97	31.41±6.43	16.30±3.52	15.07±2.04	27.51±3.95
Third	56	31.57±6.89	16.95±3.70	15.46±1.79	28.43±4.18
Fourth	74	31.19±6.67	16.39±3.62	15.20±1.95	27.75±4.01
Significance test	F	0.362	0.454	0.598	0.885
	P	0.788	0.715	0.617	0.449

**Table (7):** Relationship between socio-demographic characteristics of the studied students and average total scores of the four scales

Socio-demographic characteristics	No	DDS	SDS	PSOSH	SSOSH	
		Mean ± SD	Mean ± SD	Mean ± SD	Mean ± SD	
Age: < 20 year	148	31.95±6.44	16.48±3.54	15.07±2.07	27.83±4.02	
	≥ 20 year	161	31.27±6.72	16.57±3.55	16.25±1.89	28.02±3.98
Significance test		t=0.905,P0.366	t=0.277,P0.821	t=0.799,P0.425	t=0.426,P0.671	
Sex: Male	84	32.17±5.87	17.26±3.29	15.31±1.89	28.95±4.15	
	Female	225	31.93±6.84	16.25±3.60	15.11±2.01	27.55±3.87
Significance test		t=0.925,P0.355	t=2.241,P0.026	t=0.766,P0.444	t=2.774,P0.006	
Residence: Rural	267	31.74±6.66	16.51±3.58	15.21±1.97	27.86±4.09	
	Urban	42	30.71±6.10	16.67±3.29	14.92±2.04	28.38±3.83
Significance test		t=0.935,P0.350	t=0.273,P0.785	t=0.844,P0.399	t=0.783,P0.434	
SES: Very low	70	32.31±6.57	15.96±3.61	14.87±2.10	27.39±3.69	
	Low	71	31.43±6.12	16.55±3.01	14.87±2.12	27.87±3.60
	Moderate	87	32.06±6.34	17.38±3.58	15.25±1.93	28.47±4.04
	High	81	30.06±7.23	16.09±3.76	15.59±1.74	27.88±4.49
Significance test		F=1.014, P0.350	F=2.246, P0.043	F=2.375, P0.070	F=0.976, P0.404	

## VI. Conclusion And Recommendations

The results of the present study revealed that stigma is common among nursing students, and there was no difference in stigma toward patients with mental illness among nursing students in different academic years. On that base, it is recommended to reorient the education system in such a way that during learning, psychiatric nursing course, an issue like stigma is also effectively dealt with. Future research is needed in hopes of recognizing the best way to alter stigma towards mental illness.

### Acknowledgment

The researchers would like to thank the nursing students in the Faculty of Nursing, Mansoura University, Egypt, who accepted to participate in this research.

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Rania Rabie El-Etreby. " Stigma towards Patients with Mental Illness among Nursing Students." *.IOSR Journal of Nursing and Health Science (IOSR-JNHS)*, vol. 8, no. 02 , 2019, pp. 07-13.