

The Relationship between Clinical Dishonesty and Perceived Clinical Stress among Nursing Students in Southeast of Iran

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Abstract

Background Clinical dishonesty is a complex problem that threatens the health and safety of patients. This study aimed to investigate the relationship between clinical dishonesty and perceived clinical stress in nursing students. **Method** This cross sectional correlational study was performed on 395 nursing students from 4 nursing colleges. Data were collected using a demographic information questionnaire, Nursing Student's Perception of Clinical Stressors, and a 12-item researcher-made questionnaire to evaluate the frequency of clinical dishonesty in the past semester, the frequency of witnessing dishonest behavior among peers, and the perceived severity of behavior as unethical behavior. **Results** In this study, 89.1% of the students had at least one dishonest clinical behavior in the last semester. Frequency of clinical dishonesty was correlated with gender, interest in the field of study, academic year, frequency of observing dishonesty among peers, perceived severity of behaviors as unethical behavior, and perceived stress of students in the clinical setting. **Conclusion** The frequency of clinical dishonesty among nursing students is high and needs attention. Also, considering the positive relationship between dishonesty and perceived clinical stress, it is essential to teach effective strategies to nursing students to empower them to cope with clinical stress.

Introduction

Academic dishonesty is a deliberate complicity in the deceptive performance of one's own or another's academic work [1], which is an extremely complex issue [1]. According to educational theories, poor learning environments, lack of ethics training by the university [3] poor communication with peers and teachers (according to social psychologists) [4], and some cultural factors are associated with academic dishonesty [5]. Although it is assumed that academic dishonesty among nursing students is lower than other majors but studies have shown that the trend of dishonest behaviors in nursing students is similar to that of other majors [6]. The continuing growth of academic dishonesty in nursing education is of concern to nursing institutions and educators in many countries [7, 8]. Previous studies have shown that nursing students have dishonest behavior in both the clinical setting and the classroom [9, 10]. Some studies showed that 13% of students recorded the vital signs that they had not measured and 2% recorded medications that they had not given to the patients [9, 11]. A study in Iran revealed that 45% of nursing students have experienced cheating [12]. Park et al found that 66% of nursing students had unethical clinical behavior [13]. The results of these studies have raised a serious concern among educators and health care managers, as research on this topic has been increased in the last years [14].

The reasons for unethical behaviors of nursing students in clinical practice have been reported to be overwork, inappropriate clinical culture of nurses, poor role models, lack of patients cooperation with students, fear of being rejected by the preceptor or hospital, lack of awareness, high-volume and difficult courses, fear of failure, stress, and pressure for success and competition with peers [12, 13, 15].

Most nursing studies have described academic dishonesty as an ethical or moral problem [2], but academic dishonesty may occur in stressful environments [1]. The stress of teamwork and task work is also an effective factor in committing dishonesty [16]. Clinical education is at the heart of nursing education and is, unfortunately, an important source of stress for nursing students around the world [17–19]. Therefore, clinical stress as a risk factor for students making them increasingly vulnerable to dishonest clinical behaviors. On the

other hand, for effective and reliable clinical education, having a clear understanding of dishonest and unethical clinical behaviors of nursing students is of high importance]13[. Dishonesty is considered a major threat to learning]12[, it hurts patient care and safety]10[, and can be a recurring pattern in future professional behavior and put the patients at risk. Therefore, ignoring the clinical dishonesty of nursing students can be problematic, as studies on clinical dishonesty are very limited]14[. This study aimed to investigate the frequency of dishonest clinical behaviors and their relationship with perceived stress in nursing students.

Methods

This was a descriptive-analytic correlational study. The research population consisted of students of nursing colleges in 2 southern provinces of Iran (Kerman, Sistan and Baluchistan). Two nursing colleges were randomly selected from each province (4 colleges). Then, the first- to fourth-year nursing students were enrolled in the study (395 students). Inclusion criteria were spending at least one clinical unit and willingness to participate in the study.

Data collection Tools: A demographic questionnaire, Clinical Dishonesty questionnaire, and Nursing Student's Clinical Perceived Stress scale were used for data collection.

Demographic Information: Demographic data included age, sex, marital status, school year, student's clinical work experience, interest in nursing, and the grade point average (GPA) of the previous semester.

Clinical Dishonesty Questionnaire: This was a researcher-made questionnaire, with 12 items designed based on the review of the literature]10, 13[. The answer to each item had 3 parts. The first part measured the frequency of doing dishonest behavior in the past semester (never, once, twice or more). The second measured the frequency of witnessing dishonest behavior in classmates in the past semester (never, once, twice or more). The scorings of these 2 parts ranged from 0 to 2, respectively. The third section measured the perceived severity of that behavior as an unethical behavior, ranging from 1 to 4 (unimportant, least important, important, and most important). The mean total score of each part was calculated by sum of the responses to the items divided by the number of items. The validity of this questionnaire was confirmed by 10 nursing faculty members. Also, its reliability was determined by Cronbach's alpha for the frequency of doing the dishonest behavior, frequency of witnessing dishonest behavior in classmates, and perceived severity of behavior as unethical behavior, for the archived data of 30 last-year students. The obtained values were 0.79, 0.83, and 0.83, respectively.

Nursing Student's Clinical Perceived Stress Scale: This questionnaire was designed by the first author of another study that has not been published yet. This questionnaire was developed by interviewing first- to fourth-year nursing students, and all its psychometric evaluation (face validity, content validity, exploratory and confirmatory factor analysis) were achieved. This tool has 32 items that are scored based on the 5-point Likert scale, a higher score indicating more clinical stress. The internal consistency of this tool was 0.9.

Data Analysis: Data were analyzed using SPSS version 16. Data normality was assessed by Shapiro-Wilk test, which showed that data distribution was not normal, thus, the Box-Cox transform was used, which did not normalize the data. Nonparametric tests were used for data analysis. Mann-Whitney U-test was used to determine the relationship between dishonest clinical behaviors and bivariate demographic variables. Further,

Kruskal–Wallis test was used to determine the relationship between dishonest clinical behaviors and multivariate demographic variables (If the test result was significant, the follow-up test with Bonferroni correction was used to examine the differences between groups). Also, Spearman correlation coefficient was used to determine the relationship of the frequency of doing dishonest clinical behaviors with witnessing such behaviors, perceived severity of dishonest behaviors as unethical, the stress of nursing students, and the students' GPA of the previous semester.

After obtaining approval from the ethics committee of the university and the permission of the university authorities, anonymous questionnaires were distributed in classrooms. The questionnaires were collected after being filled out by the students.

Data were collected from November 2018 to January 2019. Questionnaires were collected by a trained MSc nursing student who studied nursing in a different university.

Ethical Considerations: This study was approved by the ethics committee of the university (IR.JMU.REC.1397.31). The questionnaires were anonymous. Also, confidentiality of the information and the right to withdraw from the study were explained to the participants. Moreover, a written consent form was obtained from all participants.

Results

The mean age of the participants was 21.85 ± 2.32 years. Half of the participants (201 students) (50.1%) were female and 337 (85.3%) were single. The mean GPA of students was 16.5 ± 1.4 . A total of 182 students (46.1%) were interested in their field of study, 33 (8.1%) uninterested, and 177 (44.8%) somewhat interested.

Frequency of Dishonest Behaviors and Their Perceived Severity as Being Unethical: Out of 395 students, 352 (89.1%) had done one or more dishonest clinical behavior in the past semester. Also, 379 (95.9%) had witnessed at least one dishonest behavior by their peers.

The mean scores of performing and witnessing dishonest behaviors were 0.45 ± 0.37 and 0.78 ± 0.47 , respectively (on a 0-2 scale). Moreover, the mean score of perceived severity of dishonest behavior as being unethical was 3.34 ± 0.54 (on a 1-4 scale).

The most commonly performed and witnessed dishonest behaviors in the last semester were, respectively, "discussing patients in public places or with nonmedical personnel" and "recording or reporting vital signs that had not been taken or recalled accurately" (items 1 and 2). The least commonly performed and witnessed behavior was "giving the wrong drug without reporting it" (item 11) [Table 1, pp. 12_15]

The mean scores of perceived severity of dishonest behavior varied from 2.7 ± 0.92 in item 1 to 3.57 ± 0.76 in item 11. The most common behavior considered "serious" by participants were items 11 and 10, with the mean of 3.57 and 3.51, respectively. The lowest intensity was for items 1 and 4, with the mean of 2.7 and 3.19, respectively]Table 2 , pp . 16_17 [Many participants had understood the perceived severity of clinical dishonesty as "no problem" or "minor problem", which varied from 10.8% (item 11) to 35.4% (item 1).

Demographic Variables Related to Clinical Dishonesty: A significant difference was found in the mean score of clinical dishonesty in gender, interest in the field of study, and the year of study [Table 3, p 18]. The results of the follow-up test also showed a significant difference in the frequency of dishonest behavior between those who answered yes to "being interested in nursing" and those who expressed "are not interested in nursing" ($p = 0.001$). Also, there was a significant difference between the group who chose "somewhat interested in nursing" and the "not interested" group ($p = 0.002$). Moreover, significant differences were found between the second- and fourth-year students ($p = 0.003$) and the third- and fourth-year students ($p = 0.001$) too.

Spearman correlation coefficient was used to investigate the relationship between performed dishonest behaviors with quantitative variables (age, GPA, witnessing dishonest behavior, perceived severity of dishonest behavior, and perceived clinical stress). The results showed that dishonest behaviors had a significant positive relationship with witnessing them ($r = 0.53$, $p < 0.001$), but a negative relationship with the perceived severity of behavior as an unethical behavior ($r = -0.40$, $p < 0.001$), and a positive relationship with perceived clinical stress ($r = 0.28$, $p < 0.001$) (Table 4).

Discussion

This study showed that most participants (89.1%) had done at least one clinical dishonest behavior. This is less than the rate reported in a Korean (66%) [13] and an American (54%) [10] studies. Although the number of dishonest clinical behaviors reported in those studies was 10. In the study conducted by Schneider and McClung, 96% of nursing students were involved in at least one academic or clinical dishonest behavior [14].

The results of the present study showed that the most commonly performed dishonest clinical behaviors were the most commonly witnessed ones, which were "discussing patients in public places or with nonmedical personnel" and "recording or reporting vital signs that had not been taken or recalled accurately". According to Bandura's social learning theory [20], observing the behavior of others (peers in this study) can lead to engaging in that behavior.

The least frequency of dishonest behavior was related to giving the wrong drug without reporting it. Also, the results revealed that the mean score of students' perceptions of dishonest behavior related to drug therapy (items 10 and 11) was higher than other items. Furthermore, it was found that students were more likely to be sensitive to behaviors that have a direct impact on patients' health and did not engage in such unethical behaviors due to fear of the health consequences for the patient and educational and legal consequences for themselves. However, they did not think talking about the patient in public places and recording inaccurate vital signs could be dangerous to the patient or could be considered a sign of immorality.

In addition, the results showed that the mean frequency of clinical dishonesty was significantly lower in females. This result is consistent with the findings of Krueger [10] and Amini et al [21] but contradicts with the findings of Park et al [13].

According to the results, the frequency of clinical dishonesty was related to being interested in nursing; thus, the frequency of these behaviors in students who chose "interested" and "somewhat interested" was less than of those who chose "uninterested". Also, a study found that students who were satisfied with nursing were likely to have higher ethical awareness, be more faithful to their discipline and its ethics, and exhibit less dishonest

behaviors]22[. In Iran, students choose their field of study based on their scores on the National Entrance Exam. Thus, sometimes, they just want to become a university student, regardless of their interest, or they select nursing for its relatively good job market. Considering the importance of the nursing profession and its impact on the health of the community, it is recommended that nursing students be interviewed to ensure that they are interested in their field of study to prevent the entry of uninterested persons into nursing schools.

Also, the highest frequency of clinical dishonesty was observed among fourth-year students, which could be related to their more presence in the clinical setting, more workload, and less supervision by instructors. In the Iranian Nursing Curriculum, only senior students attend internships, do not have theoretical units, and are in the clinical setting almost 7 days a week. Krueger found that an increase in clinical work time was also associated with an increase in clinical dishonesty]10[. Park et al also reported more dishonest clinical behaviors among senior students]13[.

According to the results of the present study, the age and GPA of students were not correlated with the frequency of their dishonest behaviors, which is in line with other studies]10, 13, 23[. Moreover, the results showed that witnessing clinical dishonesty had a significant positive relationship with dishonest clinical performance. That is, the more people witness their coworkers' unethical behavior, the more they do it. This result confirms Bandura's social learning theory.

The results of this study showed that the frequency of dishonest behavior was inversely correlated with its perceived severity as unethical behavior, indicating that nursing students' behaviors in the clinical setting are influenced by their beliefs and faiths. This can be promising for nursing educators and administrators, because it seems that by educating students about professional ethics can reduce their dishonest and unethical behaviors. Park et al found that perceived severity of fraudulent behaviors was predictive of classroom cheating]13[, but it was not associated with clinical dishonesty]13[.

The results of the present study demonstrated that the higher the perceived stress score in the clinical setting, the greater the frequency of clinical dishonesty. Nursing students may use academic dishonesty as a coping strategy to reduce stress]24[. People who engage in these behaviors are not morally troubled, but external factors and pressures, rather than the intrinsic nature of the individual, are the main reasons behind their dishonest behavior. Factors such as fear of failures, inefficiencies in clinical practice, competition with peers, and excessive expectations of educators lead to stress in nursing students]24-26[, which can be the source of dishonest behavior. Since negative coping strategies lead to increased stress, nursing students should be educated on effective coping strategies to cope with clinical stresses.

Conclusions

The results of this study showed that dishonest clinical behaviors of nursing students were to the extent that it could be problematic. Clinical dishonesty may become a recurring pattern of professional behavior and affect patient health and safety. Thus, first, nursing managers and educators should select those students who are interested in the nursing profession. Then, they should provide necessary training to the students regarding the impact of ethical behaviors on patient care. Also, they should teach the students effective strategies to cope with clinical stresses to ensure patients' health. Therefore, interventional studies should be conducted to investigate the impact of reducing students' clinical stress on their dishonest performance. Since students who

show clinical dishonesty may continue to perform them as nurses in the future, clinical nursing managers need to be sensitive to the issue of clinical dishonesty.

Declarations

Ethics approval and consent to participants: This study was approved by the ethics committee of the university (IR.JMU.REC.1397.31). The questionnaires were anonymous. Also, confidentiality of the information and the right to withdraw from the study were explained to the participants. Moreover, a written consent form was obtained from all participants.

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Tables

Table 1. Participants' engagement and seeing the dishonest behaviors in clinical setting

dishonesty behaviors in clinical setting	Frequency engagement in dishonesty behavior in the last semester					Frequency seeing the dishonesty behavior in the last semester				
	none	once	twice or more	miss	M(SD)	non	once	twice or more	Missing	M(SD)
Discussing patients in public places or with nonmedical personnel	171 (43.3)	107 (27.1)	117 (29.6)		0.86 (0.84)	98 (24.8)	133 (33.6)	163 (41.3)	1 (0.3)	1.16 (0.79)
Recording or reporting vital signs that are not taken or recalled accurately	214 (54.2)	105 (26.5)	75 (19)	1 (0.3)	0.64 (0.78)	139 (35.4)	108 (27.4)	146 (37)	2 (0.5)	1.01 (0.85)
Using uncertain data or fabricating patient information for assignments	270 (68.4)	83 (21)	42 (10.6)		0.42 (0.67)	182 (46.1)	123 (31.1)	90 (22.8)		0.76 (0.79)
Taking hospital supplies or	281 (71.1)	82 (20.8)	31 (7.8)	1 (0.3)	0.36 (0.62)	198 (50.1)	95 (24.1)	102 (25.8)		0.75 (0.83)

medications from the hospital for personal use										
Attempting to perform procedures on patients without adequate knowledge or failing to obtain guidance from instructors	245 (62)	110 (27.8)	40 (10.2)		0.48 (0.67)	162 (41)	123 (31.1)	110 (27.8)		0.86 (0.82)
Recording or reporting nursing care that is not performed	296 (74.9)	61 (15.4)	37 (9.4)	1 (0.3)	0.34 (0.64)	200 (50.6)	108 (27.3)	87 (22)		0.71 (0.80)
Not reporting incidents or errors involving patients	23 (59)	113 (28.6)	47 (11.9)	2 (0.5)	0.52 (0.69)	182 (46.1)	121 (30.6)	92 (23.3)		0.77 (0.80)
Breaking sterile techniques and neither	213 (53.9)	124 (31.4)	56 (14.2)	2 (0.5)	0.60 (0.72)	127 (32.1)	120 (30.4)	147 (37.2)	1 (0.3)	1.05 (0.83)

reporting it nor replacing contaminated items										
Recording patient responses to treatments or medications that are not assessed	290 (73.4)	72 (18.2)	31 (7.8)	2 (0.5)	0.34 (0.61)	217 (54.9)	116 (29.4)	61 (15.4)	1 (0.3)	0.60 (0.74)
Recording medications as administered when they are not	299 75.6	65 (16.5)	28 (7.1)	3 (0.8)	0.30 (0.59)	225 (57)	104 (26.2)	65 (16.5)	1 (0.3)	0.59 (0.75)
Giving the wrong drug without reporting it	314 (79.5)	55 (13.9)	21 (5.3)	5 (1.3)	0.24 (0.54)	232 (58.8)	110 (27.8)	51 (12.9)	2 (0.5)	0.53 (0.71)
Losing, breaking, or damaging patients' belongings and not reporting it	286 (72.4)	81 20.5)	28 (7.1)		0.34 (0.60)	229 (58)	116 (29.4)	50 (12.7)		0.54 (0.70)

Table 2 Participants' responses about the ethical nature of academic dishonesty behaviors in the clinical settings

honesty behaviors in clinical ing	Not problematic	Trivial	Moderate	Serious	Missing data	M(SD)
Discussing patients in public places or with nonmedical personnel	43 (10.9)	97 (24.5)	167 (42.3)	88 (22.3)		2.7 (0.92)
Recording or reporting vital signs that are not taken or recalled accurately	17 (4.3)	46 (11.6)	98 (24.8)	234 (59.3)		3.38 (0.85)
Using uncertain data or fabricating patient information for assignments	25 (6.3)	66 (16.7)	111 (28.1)	193 (48.9)		3.19 (0.93)
Taking hospital supplies or medications from the hospital for personal use	30 (7.6)	58 (14.7)	108 (27.3)	199 (50.4)		3.2 (0.95)
Attempting to perform procedures on patients without adequate knowledge or failing to obtain guidance from instructors	23 (5.8)	36 (9.1)	115 (29.1)	221 (56)		3.35 (0.87)
Recording or reporting nursing care that is not performed	13 (3.3)	34 (8.6)	1 (28.4)	236 (59.7)		3.4 (0.78)
Not reporting incidents or errors involving patients	9 (2.3)	38 (9.6)	128 (32.4)	220 (55.7)		3.41 (0.75)
Breaking sterile techniques and neither reporting it, nor replacing contaminated items	12 (3)	34 (8.6)	85 (21.5)	264 (66.9)		3.2 (0.77)
Recording patient responses to treatments or medications that	16 (4.1)	51 (12.9)	116 (29.3)	212 (53.7)		3.32 (0.85)

are not assessed						
Recording medications as administered when they are not	17 (4.3)	29 (7.3)	81 (20.5)	268 (67.9)		3.51 (0.81)
Giving the wrong drug without reporting it	12 (3)	31 (7.8)	69 (17.5)	283 (71.7)		3.57 (0.76)
Losing, breaking, or damaging patients' belongings and not reporting it	18 (4.6)	48 (12.1)	91 (23)	237 (60)	1 (0.3)	3.38 (0.87)

Table 3 Prevalence of Engagement Dishonesty Clinical Behaviors According to demographic Characteristics

Variables		N (%)	M (SD)	P value
gender	Male	194	0.50(0.38)	0.006
	female	201	.41 (0.36)	
marriage	Single	337	0.46(0.38)	0.63
	married	58	0.42(0.33)	
Interested in nursing	Yes	182	.42(0.35)	0.004
	Somewhat	177	.43(0.35)	
	no	32	.71(0.49)	
Academic year	1st year	48	0.55 (0.42)	0.002*
	2nd year	143	0.40 (0.31)	
	3rd year	104	0.38 (0.36)	
	4 th year	94	0.56 (0.40)	
Student work experience in a hospital	No	93	0.47(0.36)	0.72
	yes	298	.0.45(0.38)	

Table 4. correlation between the Prevalence of dishonesty Clinical Behaviors and quantitative variables

	1	2	3	4	5	6
1-age	-	-0.065	0.093	0.201***	0.054	0.064
2-GPA		-	-0.025	-0.055	0.024	0.32
3) Frequency engagement in dishonesty behavior in the last semester			-	0.53**	-0.405**	0.280**
4) Frequency observing the dishonesty behavior in the last semester				-	-0.203**	0.310**
5) Perceived severity as being unethical					-	-0.223**
6) perceived clinical stress						-