

Research Article

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Evaluation of Clinical Teaching by Nursing Students at the Higher Institute of Nursing and Health Techniques in Casablanca, Morocco

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Abstract

Clinical teaching is an integral component of nursing education. As such, nursing students' evaluations provide insight into their perceptions of this style of teaching. It's a type of evaluation that was devised to improve education through formative assessment. The students' point of view on the instruction they receive is a fundamental element since they are the main recipients, and they appear more and more as partners in the educational process. Therefore, the purpose of this study is to explore and describe students' perceptions of clinical instruction at the Higher Institute of Nursing and Health Technology in Casablanca. To address this, we have drawn from Knox and Mogan's (1985) model of effective clinical nursing teaching. The results obtained showed that the teaching ability dimension received the highest score (4.61 ± 1.62), followed by nursing competence, personality, and interpersonal interaction. Nevertheless, students gave the component of evaluation the lowest score (4.20 ± 1.76). With p > 0.05 for all dimensions, the Mann-Whitney test reveals that the differences between the two groups of students are not statistically significant. For more accurate findings, however, further research is needed, and teachers and tutors should highlight the differences between the three groups.

Keywords: Clinical teacher, Clinical teaching, Nursing, Perceptions, Student Evaluation of teaching

1. Introduction

Teaching in the clinical setting is an essential component of nursing education (Hsu, 2014). Compared to other controlled settings such as the classroom, laboratories and seminars (Bifftu et al., 2018), clinical teaching is complex. It involves not only the transfer of clinical knowledge but also the importance of acquiring affective attitudes, psychomotor skills, critical reasoning and clinical judgment necessary for professional nursing practice in authentic situations (Bifftu et al., 2018; Hsu, 2014).

This requires multiple avenues for clinical learning, mainly how to maintain relationships and interactions with patients and the team members in a way that keeps feedback ongoing (Hsu, 2014) and helps develop a very positive relationship with the clinical teacher. In order to maintain motivation among nursing students, ensure their satisfaction with the clinical learning experience and judge their performance effectively (Chan et al., 2017; Lillekroken, 2019; Salamonson et al., 2015a).

Moreover, clinical teaching occupies an important place in nursing education and is an essential component in determining the effectiveness of education. However, students and teachers face several difficulties such as the low availability of teachers in the clinical environment to support and monitor students (Otti et al., 2015), the challenge of dealing with students who have learning disabilities or have been through unpleasant clinical circumstances, the difficulty of assessing students and providing feedback due to the complexity that accompanies the documentation of their performance (Rodger, 2019; Takashima et al., 2019), the lack of opportunities for pedagogical and professional development (Brown et al., 2012; Selim et al., 2012) and how all these affect the expectations placed on clinical learning by students.

Indeed, Lovric et al. (2014) emphasize the need for several studies dedicated to exploring the effectiveness of the teaching provided by nursing schools and the recognition of the needs of nursing students (J. I. Cho et al., 2018). This tendency is gaining momentum especially through the adoption of the humanistic and holistic approach in teaching-learning (Zakari et al., 2014) which gives importance to the preferences (Hallin, 2014) and opinions of students (O'Mara et al., 2014; Papathanasiou et al., 2014), through the student evaluation of teaching (SET).

Students' evaluation of teaching should focus most on teaching characteristics such as assessment and learning environment that are adopted by teachers (J.-I. Cho et al., 2014; Otani et al., 2012) . It can also lead students to evaluate several specific characteristics of teachers such as knowledge, clarity of explanations, organization, enthusiasm, friendliness, fairness, availability, accessibility, use of humor, and contribution to students' learning (Uttl et al., 2017).

The results obtained from student evaluation of teaching clearly distinguish between aspects of teaching that are of minimal importance and those that have a great influence on teaching because they are perceived by students when they formulate their overall assessment of the teacher's teaching and are likely to contribute to the improve awareness and responsiveness of teaching and faculty members (J. I. Cho et al., 2018).

In addition, SET can be formative and focus on a single course or on specific aspects of nursing such as clinical teaching (Bush et al., 2018).

According to Knox and Mogan (1985), clinical teaching is the set of actions, activities and expressions of the clinical teacher that facilitate student learning in the clinical setting (J. E. Knox & Mogan, 1985). Through a detailed review of the literature, these authors developed a model of all the fundamental characteristics of clinical teaching, particularly those of the clinical teacher, called the Nurse Clinical Teacher Effectiveness Inventory (NCTEI). As a result, understanding the characteristics of clinical teaching and their various dimensions through student perceptions (Edberg & Lilja Andersson, 2015; Lovrić et al., 2017) has a significant impact on diagnosis and decision making, contributing to the improvement of teaching effectiveness (Annan et al., 2013; Fraile & Bosch-Morell, 2015; Setari et al., 2016; Zabaleta, 2007) as well as meeting the needs of students to ensure the graduation of future qualified nurses (Shahsavari et al., 2014). In this sense, Knox and Mogan's (1985)

model of clinical teaching effectiveness provides a research framework which determines the five dimensions of clinical teaching: teaching ability, nursing competence, assessment, personality, and interpersonal relationship. These dimensions define also the relationship between student and teacher and the effectiveness of clinical teaching (J. E. Knox & Mogan, 1985).

Inventory (NCTEI). It is a reference model, used extensively to assess the characteristics that facilitate the learning process in clinical teaching, through the perceptions of teachers, practicum tutors, and nursing students. Its goal behind identifying the most and least significant features is to offer a thorough assessment of the clinical instruction delivered by the instructor, and it serves as a foundation for enhancing training quality. (Gangadharan et al., 2016; J. E. Knox & Mogan, 1985; Soriano & Aquino, 2017).

This model describes five basic dimensions related to clinical teaching. These are teaching ability, nursing competence, evaluation, interpersonal relationship and personality (Gangadharan et al., 2016). These dimensions are assessed through specific items (Bifftu et al., 2018).

The teaching ability is the process of transmitting knowledge, skills, and attitudes (J. E. Knox & Mogan, 1985; Nehring, 1990a). Furthermore, via interaction, engagement in the social environment, and use of cognitive resources in nursing practice, the teacher in clinical teaching mobilizes reflective learning in students. (Elcigil & Sari, 2008; Parsh, 2009).

The influence of the clinical teacher's teaching skills is manifested through the socialization, professionalism, skill acquisition and maintenance of interpersonal relationships in students (Lee et al., 2002; Nahas et al., 1999).

Nursing competence is the sum of the clinical teacher's theoretical and practical knowledge, as well as his or her attitude and practice toward the nursing profession. (J. E. Knox & Mogan, 1985; Nehring, 1990a).

Evaluation is an important part of clinical teaching. It is an indicator of the acquisition of clinical skills and a guarantee for the provision of quality patient care (Navabi et al., 2016). In addition, evaluation in clinical teaching is the type of feedback that the teacher gives to the student regarding his/her clinical performance and written assignments (J. E. Knox & Mogan, 1985; Nehring, 1990a) . However, it remains a complex process, whereby the teacher considers not only the application of knowledge and technical skills in specific clinical situations but also critical thinking and interpersonal communication. This is necessary to ensure the training of qualified nurses (Castro-Yuste et al., 2018; Kamonratananun et al., 2016).

The interpersonal relationship is the fourth dimension that characterizes clinical teaching. It is a state of mutual interest or communication between two or more people. It is far from any specific therapeutic communication between the patient and the nurse (J. E. Knox & Mogan, 1985; Nehring, 1990a).

Personality encompasses individual attitudes, emotions, and character traits, which are not directly related to teaching, caring, or interpersonal relationships but have the potential to influence them all (J. E. Knox & Mogan, 1985; Nehring, 1990a).

Therefore, the clinical teacher is a key player, his or her effectiveness is necessary for the training of future qualified nurses (Boyd & Lawley, 2009; Lee et al., 2002; Shahsavari et al., 2014). In addition, the quality of the student's clinical learning depends on the quality of the clinical teaching provided and the characteristics of the clinical teacher (Lovrić et al., 2014).

The objective of this study is to explore and describe students' perceptions of clinical teaching in the nursing program at the higher institute of nursing and health techniques (ISPITS) in Casablanca.

More specifically, our research paper aims to engage with the following questions:

- 1. What are the students' perceptions of clinical nursing teaching?
- 2. Are there significant differences in students' perceptions of clinical nursing teaching?

2. Methodology

2.1 Research Design

In this study, a cross-sectional survey design is adopted. The purpose is to investigate nursing students' perceptions of clinical education they receive.

2.2 The context of the study

The study is carried out during the academic year 2020 at ISPITS in Casablanca, Morocco, for the "Care Nursing" major.

2.3 Sample and Data Collection

The sample for our study consists of nursing students. The total number of participants is 138 students belonging to the second and third years of the six nursing majors. They were included in the study since they had completed several clinical placements and were in constant contact with the clinical teachers. First-year students, on the other hand, were not considered since they had not yet completed any clinical rotations at the time of the study.

The Knox and Mogan (1987) questionnaire on the effectiveness of clinical nursing instruction (NCTEI) was used to collect data (J. Knox & Mogan, 1985).

It is a 47-item questionnaire on a 7-point Likert scale. It consists of five dimensions characterizing clinical teaching, namely, clinical teaching ability, nursing competence, evaluation, interpersonal relationship, and personality.

Prior to their participation in the study, the participants were informed about the study's goal and the data collecting tool.

The questionnaire was administered online to all the participants because the study coincided with the lockdown period due to the Covid 19 outbreak, and the data were collected between the months of June and July 2020.

2.4 Analyzing of Data

The data collected from the NCTEI questionnaire were analyzed using SPSS software version 20. Descriptive statistics were performed (frequency, average, standard deviation) for the five dimensions of the questionnaire, as well as for the 47 constituent items. In addition, the non-parametric Mann Whitney test was used to investigate perceptual differences between the two groups of students.

2.5 Ethical Considerations

The present study received the ethical consent by the local ethics committee at ISPITS in Casablanca, Morocco. In addition, free and informed consent was obtained from all study participants. In addition, the anonymity and confidentiality of the data were respected.

3. Results

3.1 Reliability of the measuring instrument

Cronbach's Alpha coefficients attest to a very good reliability of the subscales of our measurement instrument. This latter ranges from 0.85 to 0.88 with α = 0.95 for the entire scale. We can therefore conclude that this is a consistent instrument in term of measurement.

4. Analysis of the Questionnaire

4.1 Participants' socio-demographic characteristics

The socio-demographic data from 138 participants reveals a relatively youthful group of students aged 19 to 24 years old (98.4%), with a majority of women (84.05 percent), of Moroccan nationality, who are majored in a variety of nursing options (Table 1).

Table 1: Socio-Demographic Characteristics of Participants

No	Domographic Characteristics	Studen	t (n/%)
INO	Demographic Characteristics	Total	%
	Gender		
1.	Male	22	15.94
	Female	116	84.05
	Age		
2.	Under 19 years old	02	1.6
	19 and 24 years old	136	98.4
	Nationality		
3.	Moroccan	132	95.6
	Other	6	4.3
	Year of study		
	2nd year	82	59.4
4.	3rd year	56	40.6
	Options of the nursing field		
	Polyvalent nurse	62	44.9
Nurse in anesthesia and intensive care		11	8
	Emergency and Critical Care Nurse	20	14.5
5.	Mental Health Nurse	7	5.1
5.	Neonatal and Pediatric Nurse	31	22.5
	Family and Community Health Nurse	7	5.1

4.2 Students' perception of the dimensions of clinical teaching

Concerning the dimension of teaching ability, students express a positive perception when it comes to interactivity and autonomy. Indeed, the highest-scoring items are related to these two aspects: answers carefully and precisely the questions raised by the students (4.99±1.84), encouraging active participation during discussions (4.86±1.95), and promoting student's independence (4.83±1.95) (Table 2).

Table 2: Students' Perception of the Dimensions of Clinical Teaching

Item	Description	Average	Standard deviation
1.	Explains clearly	4.57	1.88
2.	Emphasizes what is important	4.54	1.93
3.	Stimulates students' interest in the subject	4.42	1.87
4.	Remains accessible to students	4.53	1.86
5.	Demonstrates clinical procedures and techniques	4.75	1.87
6.	Guides students toward developing clinical skills	4.61	1.96
7.	Provides specific practice opportunity	4.33	1.99
8.	Offers special help when difficulties arise	4.38	1.98
9.	Is well prepared for teaching	4.64	1.86
10.	Enjoys teaching	4.61	2

Item	Description	Average	Standard deviation
11.	Encourages active participation during discussion.	4.86	1.95
12.	Gears instructions to students' level of readiness	4.59	1.81
13.	Quickly grasps what students are asking or telling	4.49	1.81
14.	Answers carefully and precisely to questions raised by students	4.99	1.84
15.	Questions students to elicit underlying reasoning	4.75	1.78
16.	Helps students organize their thoughts about patient problems	4.52	1.93
17.	promotes student independence	4.83	1.95

However, the aspects related to practice and assistance are the least scored; they offer specific help when difficulties arise (4.38±1.98) and provide specific practice opportunities (4.33±1.99).

For the dimension, "Nursing competence", students value the teacher when he or she assumes responsibility (4.77 ± 2.02) , is conscious of his or her limitations (4.72 ± 2.02) , and demonstrates sufficient nursing knowledge (4.70 ± 1.86) (Table 3).

Table 3: Students 'perception of the dimension of nursing competence in clinical teaching

Item	Description	Average	Standard deviation
18.	Demonstrates clinical skills judgment	4.12	1.82
19.	Demonstrates communication skills	4.39	1.74
20.	Reveals broad reading in his/her area of interest	4.41	1.80
21.	Discusses current development in his/her field	4.40	1.93
22.	Directs students to useful literature in nursing	4.62	1.96
23.	Demonstrates a breadth of knowledge in nursing	4.70	1.86
24.	Recognizes own limitations	4.72	2.02
25.	Takes responsibility of own actions	4.77	2.02
26.	Is a good role model	4.55	1.98

Regarding the dimension of "Evaluation " in clinical teaching, students consider that the communication of expectations, frequent observation of their performance, and receiving constructive suggestions from their teachers are the most important (4.42±2.02; 4.37±1.95; 4.30±1.80) (Table 4).

Table 4: Students' Perceptions of the Evaluation dimension in clinical teaching

Item	Description	Average	Standard Deviation
27.	Makes specific suggestions for improvement	4.30	1.80
28.	Provides frequent feedback on students' performance	4.22	1.75
29.	Identifies students' strengths and limitations objectively	4.27	1.91
30.	Observes students' performance frequently	4.37	1.95
31.	Communicates expectations of students	4.42	2.02
32.	Gives students positive reinforcement for good contributions, observations, or performance.	4.26	1.97
33.	Corrects students' mistakes without belittling them	4.21	2.10
34.	Does not criticize students in front of others	3.59	2.22

Nevertheless, they were not satisfied with the criticism they received in front of others and the way their mistakes were corrected (4.21±2.10; 3.59±2.22).

Concerning the dimension "interpersonal relationship", students credit more scores to the characteristics of respect, listening and showing interest from the teacher towards the student $(4.62\pm2.03;4.53\pm2.06;4.32\pm2.01)$ (Table 5).

Table 5:	Students'	perce	otion	of the	inter	personal	relatio	nship	o in	clinical	teaching	
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Item	Description	Standard Deviation	
35	Provides support and encouragement to students	4.28	2.06
36	Is approachable	4.19	1.90
37	Encourages a climate of mutual respect	4.62	2.03
38	listens attentively	4.53	2.06
39	Shows personal interest in students	4.32	2.01
40	Demonstrates empathy	4.19	2

The dimension "Personality" also elicits students' appreciation which is generally positive when the teacher expresses self-confidence and appears organized (4.83±1.95; 4.77±1.99), However, the least scored aspect is related to openness and expression of judgment (4.09±1.97) (Table 6).

Table 6: Students' perception of the personality dimension in clinical teaching

Item	Description	Average	Standard Deviation
41.	Demonstrates enthusiasm	4.12	1.90
42.	Is a Dynamic and energetic person	4.51	1.90
43·	Self-confidence	4.83	1.95
44.	Is self-critical	4.23	1.89
45·	Is open-minded and non-judgmental	4.09	1.97
46.	Has a good sense of humor	4.12	1.96
47·	Appears organized	4.77	1.99

In terms of the overall evaluation to the clinical teaching, we found out that the students' teaching skills received the highest score (4.61±1.62), followed by the aspects of nursing competence, personality, and interpersonal interaction.

Nevertheless, students assign the last place to the evaluation dimension (4.20±1.76)

4.3 A comparison of students' perception to the dimensions of clinical teaching

Analysis of the results shows differences in perceptions between the two groups of students for the five dimensions studied. Second year students give more importance to personality followed by interpersonal relationship and nursing competence and put evaluation last. Third year students on the other hand, favor nursing competence over interpersonal relationship, and evaluation, and put personality last (Table 7).

Table 7: A comparison of the dimensions of clinical teaching between the two groups of students

Grade of	study	Teaching ability	Nursing competence	Evaluation	Interpersonal relationship	Personality
	Ν	82	82	82	82	82
	Average	4,49	4,41	4,13	4,30	4,43
Second	DS	1,70	1,72	1,83	1,83	1,72
	Sum	368,47	362,00	338,75	353,33	363,71
year student	Average rank	67.24	66.98	67.96	68.24	70.26
	Sum of ranks	5514.00	5492.00	5573.00	5595.50	5761.50

2089.000

0.369

f study		Teaching ability	Nursing competence	Evaluation	Interpersonal relationship	Personality
	Ν	56	56	56	56	56
	Average	4,78	4,67	4,31	4,41	4,29
	DS	1,49	1,65	1,66	1,89	1,79
	Sum	267,47	261,67	241,50	247,50	240,71
	Average rank	72.80	73.20	71.75	71.35	68.38
	Sum of ranks	4077.00	4099.00	4018.00	3995.50	3829.50

2170.000

0.585

2192.500

0.653

2233.500

0.786

Based on the statistical comparison of the differences between the two groups of students, the nonparametric Mann Whitney test for two independent samples was used instead of the Student's T-test. When the average rank of the five dimensions, namely teaching ability, nursing competence, evaluation, interpersonal relationship, and personality, is compared between the two groups, no statistically significant differences in students' perceptions of clinical teaching are found, with p greater than 0.05 for all dimensions.

5. Discussion

Third year Student

Mann-Whitney U

Asymptotic

significance

2111.000

0.422

This study investigated the perception of students on the dimensions of clinical teaching in the nursing field at the Higher Institute of Nursing and Health Techniques in Casablanca. Its findings reveal disparities in how students rank the five dimensions of clinical instruction in terms of significance, as well as how they rate the many constituent items. However, the differences were not statistically significant.

For students, the most important dimension in clinical teaching was teaching skills (4.61±1.62). This result is consistent with the results of Bifftu & al. (2018) and Lovric & al. (2017) who found that teaching ability is the most rated dimension among students (Bifftu et al., 2018; Lovrić et al., 2017). In the same vein, the study conducted by Knox and Mogan (1985) showed that this dimension is scored higher in second-year students compared to third-year students (J. E. Knox & Mogan, 1985). Hababeh's (2020) findings, on the other hand, are paradoxical, since teaching ability is the lowest-scored characteristic in students who have completed less than 12 months of clinical placement (Hababeh & Lalithabai, 2020).

Furthermore, the ranking of other dimensions among students is as follows: nursing competence, personality, interpersonal relationship and lastly evaluation. As it is pointed out by Wang & al. (2017), the five most scored items are related to the teacher's nursing competence (Wang et al., 2017). Also, Salizar & al. (2016) insist on the influence of the teacher's nursing competence on the student's learning (Ludin & Fathullah, 2016). Still, it remains the least important dimension in first year students according to the study of Lovric & al. (2017) (Lovrić et al., 2017).

The findings also reveal variations in student perceptions of the five characteristics, with second-year students prioritizing personality over nursing competence, and third-year students placing nursing competence over personality. They both, however, place teaching abilities at the top of the list.

Answering students' questions thoroughly and accurately, being confident, promoting student independence, looking organized, and encouraging active involvement during discussion were the five most essential elements, listed by the students. Indeed, practical knowledge is constructed through social dialogue between students, clinical nurses and nursing faculty (Lillekroken, 2019). Students have opportunities to ask questions in order to get new knowledge and advance their level of learning, while teachers can offer responses at the same moment, ensuring by this way continuous

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feedback (Havery, 2019; Lillekroken, 2019).

However, the five least important items are ; being open-minded and non-judgmental, having a good sense of humor and demonstrating enthusiasm, having clinical and judgmental skills, and not criticizing students in front of others. In reality, numerous research show that the dimensions of personality and evaluation are of greater interest to students; still personality is ranked higher than evaluation among students (Soriano & Aquino, 2017). These two dimensions received the same third ranking and score among students (Gangadharan et al., 2016). However, students ranked evaluation higher than personality, particularly the significance of obtaining feedback (Bifftu et al., 2018). With student placing the highest score for evaluation and the lowest score for personality (J. E. Knox & Mogan, 1985), these two dimensions characterize the best clinical teaching according to students (Nehring, 1990a). It is evident then that they are at the top of the dimensions list for all students, except those who have completed less than a year of clinical placement (Hababeh & Lalithabai, 2020).

This significant interest in personality arises from the need to have a clinical teacher who frequently shows a smile and excitement and encourages students to acquire these caring and humanistic traits with patients. He is someone who defends them in the clinical setting during challenging circumstances , intending to socialize them with the nursing profession (Parsh, 2009). Moreover, the supervision of students in the clinical setting is based on the feedback given to the student right after the patient's care. This helps the student to improve his or her learning experience and provides further opportunities for authentic learning (Havery, 2019; Scott & Elliott, 2019; Takashima et al., 2019). Furthermore, students want clear, personalized feedback to discover their strengths and shortcomings and to fix their mistakes within the context of a respectful and trustworthy relationship with the teacher (Chan et al., 2017).

Thus, the dimension of evaluation is not equally significant in the both groups because secondyear students rank it last. Nonetheless, learning situations, supervision, and assessment contribute strongly to students' authentic learning in the clinical setting (Takashima et al., 2019). In contrast, third-year students give importance to assessment and put personality last. This difference in the ranking of the evaluation dimension compared to other studies can be attributed ,on the one hand, to the variations in the country's socioeconomic status, personal character, and environment especially with technological advances (Fraser et al., 2010; Rademakers et al., 2011). On the other hand, it can be attributed to a shift in traditional teaching methods through integrated teaching, problem-based learning, and a greater emphasis on performance assessment techniques such as objective structured clinical examinations, the use of standardized patients, logbooks, portfolio assessment, and selfassessment, putting students at the center of attention (Harden & Crosby, 2000).

Statistical comparison of the differences between the two groups of students, using the nonparametric Mann Whitney test for the two independent samples, showed that the differences in students' perception on the dimensions of clinical teaching were not statistically significant with p greater than 0.05 for all dimensions. However, most studies that have investigated differences in the perception of the dimensions of quality clinical teaching in nursing education, have compared students' perception with those of teachers and tutors. (Bifftu et al., 2018; Gangadharan et al., 2016; Hababeh & Lalithabai, 2020; J. E. Knox & Mogan, 1985; Lovrić et al., 2017; Nehring, 1990b; Soriano & Aquino, 2017). These differences are broadly related to the five dimensions of clinical teaching effectiveness; teaching ability, nursing competence, evaluation, interpersonal relationship and personality.

Nonetheless, Knox and Mogan (1985) identified major differences in students' perceptions of clinical teaching characteristics at all four levels of study (J. E. Knox & Mogan, 1985). Lovric & al. (2017) also demonstrate differences in students' perceptions of the three levels (Lovrić et al., 2017). Similarly, Hababeh (2020) found out that most students, except for those who have completed between 7 and 12 months of internship, perceive only three dimensions: teaching skill, nursing competence, and interpersonal interaction with a p value less than 0.05 (Hababeh & Lalithabai, 2020). From the reasons mentioned above, it is of great necessity to study the perceptions of clinical teachers and tutors on clinical teaching and compare them with those of their students to highlight

differences and commonalities. Likewise, it is equal importance to investigate the various factors behind these differences in perception.

6. Conclusion

Student evaluation of teaching is a process of gathering information from students about the teaching or the learning process they have experienced in one or more courses. It is a form of evaluation that has been developed to improve teaching operation from a formative evaluation perspective. Moreover, the objective of this study was to explore and compare students' perceptions of their clinical teaching experience. The comparison of students' perceptions showed differences but were not statistically significant. For nursing students, while teaching ability ranked first followed by nursing competence, personality, and interpersonal relationship, the evaluation dimension was ranked last.

This study has given us an insight into the characteristics of clinical teaching from a student perspective. However, more research that involves clinical teachers and tutors is required to investigate the differences between the three groups. Furthermore, the causes behind these differences must be investigated in order to provide a more comprehensive and fuller picture to the issue.

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