# **Nurse Interns' Satisfaction with Clinical Learning Environment** in Intensive Care Unit

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#### Abstract:

**Background:** Integration of nursing theory into practice is a vital concern of educational organization. Satisfied clinical environment influences not only educational goals, but also affect nurse students' choices of future career. Intensive care unit (ICU) is appreciated learning environment which allow a great chance for nurse interns (NIs) to get training through internship year. ICU is a multidimensional unit which has a straight influence on the conclusions of NIs' clinical training. Understanding these dimensions is the first step toward enhancing learning and training to ensure safety and quality of patient care.

Objective: To assess nurse interns' satisfaction with clinical learning environment (CLE) in intensive care unit. Method: One hundred NIs who received training in three selected ICUs of Teaching Main University Hospital, Alexandria, Egypt. ICUs were Causality Care Unite I, General Intensive Care Unit II, and General Intensive Care Unit III.

**Tool:** "Clinical Learning Environment, Supervision and Nurse Teacher (CLES + T) evaluation scale" tool was used. The period of study was from April 2016 to October 2016.

**Results:** the present study showed that the majority of NIs were in the age group from 20 to 29 years old (90%), female (83%), and single (70%), as well as more than half of them (64%) had experience from 1 to 5 years in ICU. There was significant relation between the overall general NIs' satisfaction and all of the studied CLE dimensions (p = 0.00 for all dimensions). NIs perceived that pedagogical atmosphere was the most important dimension in CLE while leadership style of ICU manager was the least one. In addition, high percent of NIs with age below 20 years perceived dimension of premises of nursing in ICU as the most vital dimension (P=0.001) while NIs with age from 20 to 29 years perceived dimension of nurse preceptor role as the most vital one (P=0.001). Furthermore, a significant correlation between NIs' experience of working in ICU and both CLE dimensions of nurse preceptor role (p=0.003) and supervisory relationship (p=0.04).

**Conclusions:** From the current study, it can be concluded that nurse interns were generally satisfied with CLE dimensions. Moreover, significant relation between NIs' socio-demographic data of age, gender, marital status with their satisfaction with the five CLE dimensions. Further study is needed to investigate the impact of CLE improvement on NIs' performance.

**Key words:** clinical learning environment, nurse intern, preceptor, satisfaction, supervisor.

# I. Introduction

Nursing is a clinical founded field so integrating theoretical nursing with practice is the key of professional progress. For accomplishing this integration and obtaining intended learning outcomes, an accommodating clinical environment is needed which is important for transporting knowledge in practice basis. It was documented that clinical learning is a vital part of nursing curriculum. Based on this clinical learning importance, nursing program of Bachelor of Science contained course of internship training through a final year. This course is related to different specialty of nursing such as medical, surgical, critical care, pediatric, and obstetric. Nurse interns (NIs) are nurse students will be trained clinically through these specialties. (1)

Concerning critical care nursing, intensive care units can ascertain to be appreciated learning environment permitting NIs to take part in care of critically ill patient demanding basic and advanced nursing care. (2) Smedley (3) defined clinical learning environment (CLE) in nursing as learning derived from situations or learning inside the actual environment. Additionally, Chan (4) documented that CLE, as a multidimensional unit which has a straight influence on the conclusions of nurse intern clinical training. Clinical engagements provide NIs with a chance to practice nursing in actual reality and perfectly enable nurse intern to place theory into training. It was advised that nursing program success is greatly dependent on competence of clinical training. Several evidences advocated that ICU clinical environment consists of many aspects including educational atmosphere, premises of nursing in ICU, leadership style of ICU manager, and preceptor & supervisor roles. (5)

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Concerning educational atmosphere, it reflects the accessibility to the unit staff, interest in intern nurses' supervision and presence of meaningful & multidimensional learning situation. Also, it helps NIs to feel comfortable going to ICU and taking part in the discussion during nursing round. For premises of nursing in ICU, it concerns availability of a clearly defined nursing philosophy, individualization of nursing care and presence of a clearly defined ICU protocols. Moreover, hospital and university coordination should be attained to achieve the intended learning objective. This may affirm a harmony of tasks and concerns between hospital goals and educational ones. Regarding contributing roles in learning process, supervisor role in ICU is particularly influential. Not only they supervised nursing staff members, but also serve as role-models for nursing practice. Otron they described the influence of the nurse supervisor in determining the attitude of staff toward intern nurse and the quality of teaching which nurse intern encounters during the clinical experience, and concluded that nurse supervisor were pivotal figures in generating and commanding clinical learning environment. Regarding preceptor role, they are nurse teachers, who defined by Borrageiro theory and practice, supervision, giving constructive feedback, etc.

It is approved that if NIs experience disadvantaged care environments and poor quality of nursing care, they may develop undesirable approach to critically ill patients' care. Also, it is expected that a good learning environment will enhance nurse intern training. On the other hand, an encouraging work and learning environment seems to be essential in attracting nurses' recruitment in ICU later on. (11,12) However, some researches displayed that the CLE is a significant element with reference to learning goals, (13,14) we found few studies describing the clinical learning environment in ICU specifically, and we debate that this is necessary considering the ever increasing need to recruit and retain nurses to critically ill patients' care. Understanding aspects involving in clinical learning environment is the first step toward enhancing learning and training to ensure safety and quality of patient care. Therefore we achieved this study to assess the most important aspects influencing nurse interns' satisfaction of clinical learning environment of ICU which can lead to improve learning, patient safety, diminish improper nursing practices that impact patient morbidity and mortality, and decreasing cost of patient care.

The aim of this study is to assess nurse interns' satisfaction with clinical learning environment in intensive care unit

**Research questions**: What are the most important aspects influencing nurse interns' satisfaction of their clinical learning environment in intensive care unit?

## II. Materials and Method

**Design:** A descriptive research design was used.

**Setting:** The study was conducted in three intensive care units (ICUs) in Teaching Main University Hospital, Alexandria, Egypt. ICUs are Causality Care Unit I, General Intensive Care Unit II, and General Intensive Care Unit III.

**Patients:** One hundred nurse interns who received training in the previously mentioned setting and willing to participate in the study were included. This estimation is based on the power analysis (Epi Info program V7.0). **Tool:** One tool was used: "Clinical Learning Environment, Supervision and Nurse Teacher (CLES + T) evaluation scale". It was developed by Saarikoski et al. (15) It is used to assess CLE from NIs' point of view, supervision and the role of nurse preceptor within ICU. The scale composed of 5 subscales which included 34 items regarding aspects involved in clinical learning environment. The five subscales are: pedagogical atmosphere (9 items), leadership style of ICU manager (4 items), premises of nursing care in ICU (4items), supervisory relationship (8 items) and nurse teacher role in clinical area (9 items). NIs were asked to how much they believe these items affect CLE using a three points Likert type scale with three values; satisfied=3, nearly=2 and dissatisfied=1. Additionally, data were collected on NIs' sociodemographic data including sex, age, marital status, experience of work in private ICU.

#### Method:

- An official permission to conduct the study was obtained from "head of Critical Care & Emergency Nursing Department", and "Nursing Ethical Committee" of Nursing Faculty- Alexandria University and hospital authority "Medical Ethical Committee" after explaining the aim of study.
- The tool CLES + T scale was translated into Arabic language. Content validity of the tool was tested by 5 experts in the field of critical care and emergency nursing and necessary modifications were done. The subscales' reliability values of these factors measured by Cronbach's coefficient Alpha, in which the internal consistency reliability ranged from 0.729 to 0.936, while the statistical significance level was p < 0.05.
- A pilot study was carried out on 10 intern nurses to evaluate the clarity and applicability of the tool and necessary modifications were done when needed.

- Data was collected through a self-reported method. The questionnaire was introduced to intern nurses individually at break time of morning and evening shift after securing their consents and clarifying purpose of the study.
- Time needed for each interview ranged from 15 to 20 minutes. Data of the study was collected from April 2016 to October 2016.

#### **Ethical consideration:**

Intern nurses were informed that sharing in that study was voluntary. Written consent to participate in the study was obtained from them. The anonymity and confidentiality of responses were emphasized to intern nurses.

#### Statistical analysis of the data

Data were fed to the computer and analyzed using IBM SPSS software package version 20. Analysis and interpretation of data were done using the followings; Frequency, mean and standard deviation. Comparison between two independent population were done using independent t-test while more than two population were analyzed F-test. P is significant if  $\leq 0.05$ .

## III. Results

**Table 1** illustrated the demographic characteristics of the studied intern nurses (NIs). The table shows that the majority of NIs were in the age group from 20 to 29 years old (90%), female (83%), and single (70%), as well as more than half of them (64 %) had experience from 1 to 5 years in ICU.

**Table 2** illustrates the relationship between general satisfaction of NIs measured by total CLES + T scale with the five subscales of CLES + T. There was significant relation between the overall general satisfaction and all of the subscales dimensions (p = 0.00).

**Table 3** illustrates NIs' perception toward clinical learning environment (CLE) in ICU. NIs perceived that pedagogical atmosphere was the most first important dimension in CLE (mean percent score =  $81.47\pm14.2$ ) with reference to that 95% of NIs were satisfied with calling them by their personal name plus 78% of them found both sufficient meaningful learning situations on ICU and enough clinical learning opportunities for their needs. In addition, low percent (37%) of NIs reported feeling comfortable at the start of their shift in ICU. While, the leadership style of ICU manager dimension that was perceived as the least essential CLE one (mean percent score =  $74.8 \pm 25.1$ ). About half of NIs agreed that ICU manager appreciates nurses' effort (60%) and their feedback could easily be considered a learning situation (52%).

**Table 4** reveals relationship between NIs' socio-demographic data with the five dimensions of CLE dimensions. The table revealed that significant relation between NIs' socio-demographic data of age, gender, marital status with their satisfaction with the five CLE dimensions. For age, the high percent of NIs with age below 20 years perceived CLE dimensions of premises of nursing in ICU as the most vital dimension (P=0.001) while NIs with age from 20 to 29 years perceived CLE dimensions of nurse preceptor role as the most vital one (P=0.001). Regarding gender, there was a significant relation as high percent of male NIs agreed that supervisory relationship dimension was the most important CLE dimension. (P=0.003). Furthermore, this study showed significant correlation between nurses' experience of working in ICU and both CLE dimensions of nurse preceptor role (p=0.003) and supervisory relationship (p=0.04).

Table (1): Distribution of the studied nurses according to socio-demographic characteristics (n=100).

socio-demographic c	No.	%	
Age	<20	9	9.0
	20 - 29	91	91.0
Sex	Male	17	17.0
	Female	83	83.0
Marital status	Single	77	77.0
	Married	23	23.0
Experience of work in private ICU	Yes	64	64.0
	No	36	36.0

**Table 2:** Correlations between general satisfaction measured by overall CLES + T scale with subscales of CLES+T

Satisfaction items	Significanc	Subscales of CLES+T scale								
score	e test	Pedagogical atmosphere	leadership style of ICU manager	Premises of nursing in ICU	Nurse preceptor role	Nurse Supervisor role				
Overall CLES+T	R	0.843	0.784	0.773	0.769	0.808				
scale	P	0.000	0.000	0.000	0.000	0.000				

r: Pearson coefficient

<sup>\*:</sup> Statistically significant at p  $\leq 0.05$ 

Table (3): Distribution of clinical learning environment dimensions according to nurse interns' satisfaction

CLES+T scale  Sa No.  Pedagogical atmosphere	atisfi ).	ed %	Neu No.	tral %	Dissat No.	isfied %	Total score Min. –	Percent score Min. – Max.
	).   <sup>-</sup>	%	No.	%	No.	%	Min. –	Min. – Max.
Pedagogical atmosphere								
Pedagogical atmosphere	1	I					Max.	Mean $\pm$ SD.
r euagogicai aunospiiere							Mean $\pm$ SD. 15.0 – 27.0	33.3 – 100.0
							$13.0 - 27.0$ $23.7 \pm 2.6$	$81.7 \pm 14.2$
I feel comfortable going to the ICU at the start of my shift. 37	7   :	37.0	43	43.0	20	20.0	25.7 ± 2.0	01.7 ± 14.2
The staff calls me by my personal name.		95.0	5	5.0	0	0.0		
I feel that staff was interested in my supervision as an 44		44.0	48	48.0	8	8.0		
intern nurse								
I felt comfortable taking part in discussion during nursing 76	5 '	76.0	22	22.0	2	2.0		
round.								
The staff was easy to approach. 45		45.0	53	53.0	2	2.0		
The learning situations were multi-dimensional in terms of 72	2   '	72.0	28	28.0	0	0.0		
content		<b>7</b> 0.0	20	20.0	2	2.0		
There were sufficient meaningful learning situations on 78	3	78.0	20	20.0	2	2.0		
ICU.	)	70.0	20	20.0	2	2.0		
I have enough clinical learning opportunities for my needs 78	5	78.0	20	20.0	2	2.0	4.0 – 12.0	0.0 - 100.0
The leadership style of ICU manager							4.0 - 12.0 $9.9 \pm 2.0$	$74.8 \pm 25.1$
ICU manager regards the staff on his/her ICU as a key 55	, T	55.0	37	37.0	8	8.0	7.7 ± 2.0	17.0 ± 23.1
resource	´   `	33.0	37	37.0	O	0.0		
ICU manager acts as a team member 67	7	67.0	19	19.0	14	14.0		
ICU manager feedback could easily be considered a 52		52.0	42	42.0	6	6.0		
learning situation.								
ICU manager appreciates nurses' effort. 60	)	60.0	32	32.0	8	8.0		
Premises of nursing on ICU							6.0 - 12.0	25.0 - 100.0
							$10.3 \pm 1.5$	$78.8 \pm 18.4$
ICU philosophy is clearly defined. 54		54.0	40	40.0	6	6.0		
Individualized nursing care is provided 56		56.0	44	44.0	0	0.0		
Nursing documentation is clear. 62		62.0	36	36.0	2	2.0		
The flow of information related to patient's care is easy. 70	) ′	70.0	26	26.0	4	4.0		
Role nurse preceptors							11.0 - 27.0	11.1 – 100.0
Preceptors are capable of integrating theoretical knowledge 64	4	64.0	26	26.0	10	10.0	$22.9 \pm 3.9$	$77.6 \pm 21.9$
Preceptors are capable of integrating theoretical knowledge and everyday practice of nursing 64	+   '	64.0	26	26.0	10	10.0		
Preceptors are capable of making plans to achieve the 65		65.0	25	25.0	10	10.0		
learning objectives.	, I ,	03.0	23	23.0	10	10.0		
preceptors encourages me to be an independent learner 61		61.0	28	28.0	11	11.0		
preceptors are like a member of the nursing team 47		47.0	43	43.0	10	10.0		
My preceptors are enthusiastic 67		67.0	29	29.0	4	4.0		
My preceptors and the clinical team work together to 64		64.0	27	27.0	9	9.0		
support my learning experience.								
Preceptor is able to give his or her expertise to the nursing 65	5	65.0	33	33.0	2	2.0		
team.								
My preceptor has good communication with health care 78	3 '	78.0	20	20.0	2	2.0		
team.		0		4 - 0				
My preceptors provide me with regular feedback on my 62	2   '	62.0	16	16.0	22	22.0		
strengths and weaknesses.							10.0 24.0	12.5 100.0
Supervisory relationship4							$10.0 - 24.0$ $20.5 \pm 3.1$	$12.5 - 100.0$ $77.8 \pm 19.6$
I feel that I receive individual supervision 66	<u> </u>	66.0	33	33.0	1	1.0	$20.3 \pm 3.1$	77.6 ± 19.0
I continuously receive feedback from my supervisor 70	_	70.0	22	22.0	8	8.0		
I am satisfied with the supervision I receive 52	_	52.0	40	40.0	8	8.0		
Supervision was based on a relationship of equality and 66		66.0	22	22.0	12	12.0		
promote my learning	·   '	20.0				12.0		
There is a mutual interaction in the supervisory relationship 66	5	66.0	32	32.0	2	2.0		
The supervisory relationship is characterized by a sense of 59		59.0	31	31.0	10	10.0		
The supervisory return of simple characterized by a sellectif 133								
trust								
	2 :	52.0	32	32.0 7.0	16	16.0 11.0		

**Table (4):** Distribution of the studied nurse interns according to their socio demographic characteristics in relation to clinical learning environment dimensions

		Pedagogical atmosphere		leadership style of ICU manager		Premises of nursing in ICU		Nurse preceptor role		Nurse Supervisor role	
	Mean	± SD.	Mean	± SD.	Mean	± SD.	Mean	± SD.	Mean	± SD.	
Age											
<20	78.4	12.3	62.5	19.8	88.9	4.8	80.5	19.8	83.3	8.8	
20 – 29	81.9	14.4	75.9	25.3	77.8	18.9	48.8	23.7	77.3	20.3	

t(p)	0.7	(0.5)	5) 1.5 (0.1)		4.6*(0.001*)		4.5*(0.001*)		1.7 (0.1)	
Sex										
Male	79.1	11.7	77.2	15.5	84.6	12.1	76.5	15.7	85.3	7.3
Female	82.2	14.7	74.3	26.7	77.6	19.3	77.8	23.1	76.3	20.9
t(p)	0.8(0.4)		0.6 (0.5)		1.9 (0.1)		0.2 (0.8)		3.1*(0.003*)	
Marital status										
Single	82.1	14.9	74.4	23.9	79.7	18.6	78.4	19.9	75.8	23.9
Married	80.2	11.9	76.1	29.2	75.5	17.9	75.8	18. 8	83.6	12.7
t(p)	0.7	(0.6)	0.3(0.8)		0.9(0.3)		0.6(0.6)		2.04*(0.04*)	
Experience of work in										
private ICU										
Yes	82.8	15.3	74.8	25.7	76.8	16.9	73.7	25.8	80.8	19.6
No	79.6	12.1	74.7	24.2	82.3	20.6	84.6	9.8	72.6	18.6
t(p)	1.1(0.3)		0.03(0.9)		1.5(0.1)		3.01*(0.003*)		2.04*(0.04*)	

t, p: t and p values for Student t-test

F,p: F and p values for **ANOVA test** 

#### IV. Discussion

The current results largely revealed that nurse interns' (NIs) satisfaction with their clinical learning environment (CLE) was significantly related to all of the subscales CLES + T dimensions. This means that nurse interns accomplishing clinical practice in ICU expressed a rich established philosophy of nursing, individual patient care is given, an uncomplicated data flow and accurate well documentation of nursing practices. These findings are in agreement with previous ones concluding largely, nurse interns estimated the CLE positively, (16-18) as well as other relevant studies documented that high percent of nurse students were satisfied with their clinical experience. (19-21)

It is a surprising result of the present study that high percent of NIs were satisfied with pedagogical atmosphere of ICU as the most first important dimension in CLE although ICU is a huge source of stressor. This means that NIs were able to take part in the discussion during nursing round and having enough clinical learning opportunities for their needs. Additionally, they experienced that ICU staff was easy to approach, deal friendly with them as calling them by their personal name, and generally interested in their supervision as an intern nurse plus NIs found sufficient meaningful learning situations on the ICU. These results were in line other Sundler et al's (6) studies results. On the other hand, low percent of NIs reported feeling comfortable at the start of their shift in ICU. This may be due to NIs' point of view, CLE is the greatest anxiety aggravating element related to education of nursing. (23)

Regarding the leadership style of ICU manager, it is a form of organizational support that is needed and helpful when NIs' pre-existing knowledge and skills are inadequate for clinical practice <sup>(24)</sup> High percent of NIs in this study were dissatisfied with the leadership style of ICU manager dimension and perceived it as the least essential CLE one. This can be explained by that ICU manager support remained less than NIs' expectation. NIs wasn't respected, appreciated and didn't receive feedback from ICU manager. Cowie *et al.* <sup>(25)</sup> approved that ICU managers are not directly involved in clinical teaching or in the supervision of nursing students but responsibilities for allocating clinical placements for nursing students. Bezuidenhout *et al.* <sup>(26)</sup> added that leadership within nursing is based upon the ability to influence the staff toward the achievement of goals through motivation and support. In addition, it was approved that high level of satisfaction has been reported when students had the nurse manager ensuring that their learning needs were addressed as she was well updated. <sup>(27)</sup>

About nurse preceptor role, the current study revealed that some NIs dissatisfied with this role. They found nurse preceptor didn't provide them with regular feedback on their strengths and weaknesses. This result was augmented by Levett-Jones et al <sup>(28)</sup> who approved that students need feedback and to maintain open communications with their faculty trainers. Researches <sup>(29,30)</sup> revealed that nurse preceptor is considered to be a nurse who is in charge for alert designing of the practical placements, and hence consistent appointments improved NIs' practical experience because those appointments confirmed that intended learning outcomes were successfully completed in exact approach.

Moreover, the present study showed that high percent of NIs in age group less than 20 years and without experience found nurse preceptor role was significantly important for them. This can be due to that they were unprepared psychologically and had a sense of still attaching completely to their faculty and needed support from it. Unexperienced NIs considered ICU setting as a new stressful clinical one. This was accepted by several relevant studies which documented that the nurse preceptor role effective, especially in stressful situations. Sundler et al. (31) concluding that a nurse preceptor had a direct influence on NIs' satisfaction with CLE. Moreover, inexperience results in fear of making mistakes, feeling of incompetent and low self-confidence. This result was accepted by Edwards et al. (32) and Joolaee et al. (33) who demonstrated that inadequate self-confidence is a great problem for new nurses causing feeling of anxiety and fear.

<sup>\*:</sup> Statistically significant at  $p \le 0.05$ 

While these results demonstrated that high percent of married NIs in the age group from 20 to 30 years plus who with experience of work in ICU were satisfied with nurse supervisor role significantly and considered it important CLE dimension for them. This is attributed to NIs' familiarity with ICU setting as well as meeting and caring for critically ill patients. Additionally, it was expected that these NIs exposed to situational problems and gained experience from solving. Therefore, it was easier for these NIs to approach the staff with questions without being judged as less competent. This is in line with Dornan <sup>(34)</sup> who concluded that experienced students have the probability to deal with nurse supervisor more than other students. In addition, Van der Zwet et al <sup>(35)</sup> found that experienced students fell more trust and the supervisor let them to take care of patients more independently.

# V. Conclusion

It can be concluded that there was significant relation between the overall general NIs' satisfaction and the entire studied CLE dimensions. Additionally, high percent of NIs were satisfied with pedagogical atmosphere of ICU although ICU is a stressful environment as they able to have enough clinical learning opportunities for their needs. While high percent of NIs were dissatisfied with Leadership style of ICU manager which needs to be improved. Moreover, some NIs dissatisfied with nurse preceptor role. In the same time high percent of NIs in age group less than 20 years and without experience found nurse preceptor role was significantly important for them. Additionally, high percent of married NIs in the age group from 20 to 30 years with experience of work in ICU were satisfied with nurse supervisor role significantly and considered it important CLE dimension for them.

#### VI. Recommendations

Nurse manager in ICU should be more cooperative with faculty to facilitate leaning for attaining positive intensive care nurse interns' perception and satisfaction with ICU environment. This will increase nurses' recruitment in ICU later on. Nurse preceptor should provide nurse interns with regular feedback on their strengths and weaknesses. Further study is needed to investigate the impact of clinical learning environment improvement on intern nurses' performance.

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