Nurses' Knowledge toward Care of Unconscious Adult Patients at Teaching Hospitals in Al-Hilla City

معارف الممرضين تجاه العناية بالمرضى البالغين فاقدي الوعي في المستشفيات التعليمية في مدينة الحلة

Na'el K. Abbas, BSc.N^{*} Widad K. Mohammed, PhD **

المستخلص،

الهدف: تهدف الدراسة الى تقييم معارف الممرضين تجاه العناية بالمرضى البالغين فاقدي الوعي والتعرف على العلاقة بين معارف الممرضين تجاه العناية بالمرضى البالغين فاقدي الوعي والخصائص الاجتماعية الديموغرافية مع بعض المتغيرات.

المنهجية : تم آجراء دراسة وصفية في وحدات العناية الحرجة لتقييم معارف الممرضين تجاه العناية بالمرضى البالغين فاقدي الوعي في المستشفيات التعليمية في مدينة الحلة في الفترة من ٢٠ سبتمبر ٢٠١٨ إلى ٢ يونيو ٢٠١٩.

تم اختيار عينة (غرضية) غير احتمالية تضمنت ٢٠ ممرض وممرضة يعملون في وحدات العناية الحرجة في (مستشفى الإمام الصادق "ع" التعليمي ومستشفى الحلة التعليمي العام). تم جمع العينة باستخدام الأداة التي تتكون من أربعة أجزاء. الجزء الأول هو البيانات الديموغرافية لعينة الدراسة التي تتكون من ١٠ فقرات ، والجزء الثاني هو أسئلة الاختيار من متعدد المتعلقة بمعارف الممرضين التي تتكون من ٣٦ فقرة. تم التحقق من صححة الأداة من قبل ١٣ خبيرًا ، يتمتع كل منهم بخبرة تزيد عن ١٠ أعوام في التخصص ، وتم تحديد موثوقية التركيب الداخلي من خلال من الرباط كرونباخ حيث كانت = ٢٩٠٠. أجريت البيانات التي تم تحليلها من خلال تطبيق الإحصاءات الوصفية (التكرارات ، النسب المنوية ، متوسط الدرجات ، الانحراف المعياري) والإحصاءات الاستنتاجية (معامل الارتباط ألفا و ANOVA).

النتائج: أظهرت الدراسة أن غالبية المشاركين في الدراسة هم من الذكور ممن تتراوح أعمارهم بين (٢٠-٢١) سنة من حملة شهادة البكالوريوس

النتائج: أظهرت الدراسة أن غالبية المشاركين في الدراسة هم من الذكور ممن تتراوح أعمارهم بين (٢٠-٢٠) سنة من حملة شهادة البكالوريوس في المستشفى عامة وفي وحدة العناية المركزة خاصة في التمريض، وأن أكثر من نصفهم عزاب و كانت سنوات الخبرة لديهم في مجال التمريض في المستشفى عامة وفي وحدة العناية المركزة خاصة من (١-٥) سنة وان نصف المشاركين كانوا يمارسون عملهم في الوقت الصباحي والمسائي اي خلال ٢٤ ساعة، وان غالبيتهم ليس لديهم مشاكة في دورات تدريبية حول وحدة العناية المركزة. كذلك اظهرت الدراسة ان معارف الممرضين تجاه العناية بالمرضى البالغين فاقدي الوعي كانت كافهة

التوصيات: يوصى بتوفير برامج فيديو متقدمة واجتماعات محددة وبرامج وورش عمل وأنشطة تدريبية وحلقات دراسية وكتيب للكادر التمريضي حول كيفية العناية بالمرضى البالغين فاقدي الوعي من اجل زيادة معارفهم. يوصى ايضاً بتوفير الادوات والمعدات اللازمة من قبل وزارة الصحة لاستخدامها في وحدة العناية المركزة ، ومن الموصى به ايضا إجراء دراسات مستقبلية.

الكلمات المفتّاحية: الممرضين ، المعارف المرضي البالغين فاقدي الوعي .

Abstract

Objective: The study aims to evaluate nurses' knowledge toward care of unconscious adult patients and identify the relationship between nurses' knowledge toward care of unconscious adult patient and their demographic characteristics of age, gender, Marital Status, level of qualification and years of experience.

Methodology: A descriptive study (quantitative design) was carried out by using quasi experimental design to study nurses' knowledge, attitudes and practices toward care of unconscious adult patients at teaching hospitals in Al-Hilla City from September 2018 up to June 2019.

A purposively sample has been chosen in which included 60 nurses who work in ICUs within two hospitals (Imam Al-Sadiq teaching hospital and Al-Hilla general teaching hospital). The sample has been collected by using the tool that involves four parts. The first part is demographical data for a study sample which consists of 10 items, the second part is multiple choice questions related to nurses' knowledge which consists of 32 items, The tool has been validated by 11 experts, all of them have experience more than 10 years, a reliability is determined by Crohn Bach correlation where r=0.92. The analyzed data have been stated during using of descriptive statistics (frequencies, percentages, mean of scores, Standard deviation) and inferential statistics (Coefficient alpha correlation and ANOVA).

Results: The study showed that the majority of the participants in the study were males aged between 20-29 years of bachelor's degree in nursing. More than half of them were single and had years of experience in hospital and in intensive care unit (1-5) years, and half of the participants were doing their work in the morning and evening, within 24 hours, and the majority did not participate in training sessions on the intensive care unit. The study also showed that nurses' knowledge toward care of unconscious adult patients was enough.

Recommendations: Advanced video programs, specific meetings, programs, workshops, training activities and seminars, and Booklet are should be provided for nurses on how to care of unconscious adult patients to increase their knowledge, it's recommended to the Ministry of Health to provide the necessary advanced supplies and equipment for use in intensive care units (ICUs) and It is recommended for future studies conduction.

Keywords: Nurses, knowledge, Unconscious adult patients.

^{*} Academic nurse, Babylon Health Directorate, Ministry of Health, naelkheder0772@gmail.com

^{**}Assistant Professor, Adult Nursing Department, College of Nursing, University of Baghdad, wadad_2005m@yahoo.com

Introduction:

Intensive Care Unit (ICU) is a specialized placing where the crucial affected person is obtained or cared. Most patients in the intensive care unit are unconscious, sensory deprived, then hold restricted activity as a result of disease or any other disability (1). Intensive care unit (ICU) can care supplied by particularly staffed and equipped within a detached hospital unit which devoted to the monitoring, caring and curing of patients with life threatening diseases, damages or complications from which cure is mostly potential, an intensive care unit prepares special experiences and skills to return function of body organs to normal to treat the central cause (2). Intensive care unit (ICU) nurses represent the greatest expected and trained team practicing within the ICU. In addition, professional nurses in ICU carry at least four main principles: knowledge, skills, attitude, ethics and values. Nurses using these principles to cure the patient, such as improved patient outcomes, reduce diseases, decrease death rate, reduced complications and mistakes. Therefore, patients in the ICU and their families profit interest from exceptionally skilled staff (3). Patients in the intensive care unit rely heavily on nurses because they are unconscious and do not have the ability to take care of themselves and control them. Nurses skills acquired can promote trust in caring for patients, these skills provided to care of unconscious adult patients are not

Methodology:

A descriptive study (quantitative design) was carried out by using quasi experimental design to study nurses' knowledge toward care of unconscious adult patients at teaching hospitals in Al-

restricted to only care principle, However, the knowledge principle to begin assessment, planning and intervention of care. Ethics and values refer to Nurses' attitude that is concerned with activities and practices of nurses towards of providing care for an unconscious patient. Ethics and values, including cooperative nurses with them other and providing a holistic care to the unconscious patient mixed with high confidence, validity and sincerity (4) One of nurse's rule toward an unconscious patient is caring, this duty demands skill, right decision, and the capacity to conduct assessment, then problem solving by using only objective data. The aims of an unconscious patients care involve primary and continuous assessment of the patient's condition, monitoring unconscious patients closely, washing and cleaning the conservation of the lucid and open airway, maintain fluid and electrolyte balance, providing medication as prescribed, checking a vital signs every two hours, protection from injury, free of corneal irritation, change dressing as doctor order, change position every two hours, sucking secretions as needed, preventing reducing complications, and very important contact with unconscious patient's family as support them to reduce anxiety, all those care and more are present in the intensive care unit⁽⁵⁾.

Hilla City from September 2018 up to June 2019.

A purposively sample has been chosen in which included 60 nurses who work in ICUs within two hospitals (Imam Al-Sadiq teaching hospital and Al-Hilla

general teaching hospital). The sample has been collected by using the tool that involves four parts. The first part is demographical data for a study sample which consists of 10 items, the second part is multiple choice questions related to nurses' knowledge which consists of 32 items. To identify the reliability of the instrument, Alpha study Correlation Coefficient (r) was applied for the purpose of measuring the internal consistency of the study instrument by applying of Statistical Package for Social Science Program (IBM SPSS) version 22.0. The tool has been validated by 11 experts, all of them have experience more than 10 years, A purposive sample of (10) nurses from both genders was selected from

intensive care unit (ICU) in Imam Al-Sadiq General Teaching Hospital and Al-Hilla General Teaching Hospital to determine the reliability, clarity of instrument and estimate the average time that consumed to collect data from the whole sample.

a reliability is determined by Crohn Bach correlation for KAP study where r= 0.92. The analyzed data have been stated during using of descriptive statistics (frequencies, percentages, mean of scores, Standard deviation) and inferential statistics (Coefficient alpha correlation and ANOVA).

Results:

Table (1): Socio-Demographic Characteristic of the Study Sample

Demographic Data	Groups	Frequency	Percentage	
	20 to 29	48	80.0	
A (\$7	30 to 39	7	11.7	
	40 to 49	4	6.7	
Age / Years	50 to 59	1	1.6	
	Total	Total 60		
	Mean ± Std. Deviation	27.88 =	± 6.855	
	Male	53	88.3	
Gender	Female	7	11.7	
	Total	60	100.0	
	Single	42	70.0	
Marital Status	Married	18	30.0	
	Total	60	100.0	

	Nursing bachelor's degree	33	55.0
.	Nursing diploma degree	14	23.3
Level of Qualification	Nursing Secondary School Graduate	4	6.7
	Others	9	15.0
	Total	60	100.0
	1 to 5	46	76.7
Years of	6 to 11	9	15.0
Experiences in the	12 to 17	4	6.7
Hospital	18 to 23	1	1.6
	Total	60	100.0
	1 to 5	47	78.3
Years of Experiences in the ICU	6 to 10	10	16.7
	11 to 15	3	5.0
	Total	60	100.0
	Morning	10	16.7
	Evening	20	33.3
Shift Time	Morning and Evening	30	50.0
	Total	60	100.0
	Al-Emam Al-Sadiq Teaching Hospital /morning (6 hrs.)	7	11.7
	Al-Emam Al-Sadiq Teaching Hospital /morning and evening (24 hrs.)	30	50.0
Business Hours	Al-Hilla Teaching Hospital/ morning (6 hrs.)	3	5.0
	Al-Hilla Teaching Hospital/ evening (18 hrs.)	20	33.3
	Total	60	100.0
Double 4'	Yes	13	21.7
Participation in ICU Training	No	47	78.3
Sessions	Total	60	100.0

	Inside Country	12	20.0
Place of Training	Outside Country	1	1.7
Session	None	47	78.3
	Outside Country 1 None 47 Total 60 One Course 8 Two Courses 4 Three Courses or More 1 None 47 Total 60 Intensive Care Unit (ICU) 2 Care of Unconscious Patients 2 Cardiopulmonary Resuscitation (CPR) 3 Electrocardiogram (ECG) 1 Intensive Care Unit (ICU) and Care of Unconscious Patient (ICU) And Sterilization 3 Unconscious Patient Safety 1 None 47 Total 60 Al-Emam Al-Sadiq General Teaching Hospital 6 Al-Hilla General Teaching Hospital 6 Merjan Teaching Hospital Al-Emam Al-Sadiq General Teaching Hospital and Al-Hilla General Teaching Hospital and Al-Hilla General Teaching Hospital and Al-Hilla General Teaching Hospital Al-Emam Al-Sadiq General Teaching Hospital Al-Emam Al-Sadiq General Teaching Hospital Al-Emam Al-Ending Hospital Al-Hilla General Teaching Hospital Al-Emam Al-Sadiq General Teaching Hospital Al-Emam Al-Ending Hospital Al-Hilla General Teaching Hospital Al-Emam Al-Ending Hospital Al-E	100.0	
Place of Training Session	13.3		
	Two Courses	4	6.7
		1	1.7
	None	47	78.3
	Total	60	100.0
		2	3.3
		2	3.3
	-	3	5.0
	_	1	1.7
	(ICU) and Care of	3	5.0
	(ICU) And	1	1.7
		1	1.7
	None	47	78.3
	Total	60	100.0
	General Teaching	3	5.0
		6	10.0
_		1	1.7
Site	Germany	1	1.7
	General Teaching Hospital and Al-Hilla	2	3.3

	None	47	78.3
	Total	60	100.0
	One week	9	15.0
	Two weeks	3	5.0
Duration of Training Session	Three weeks or more	1	1.7
	None	47	78.3
	Total	60	100.0

Table (1) shows that (80 %) of the study sample are at age group (20 to 29) years old, (88.3 %) of them are males, (70 %) of the present study are single, level of qualification represents that half of them (55 %) are nursing bachelor's degree, (76.7%) of nurses have (1 to 5) years of experiences in the hospital. (78.3 %) of nurses have (1 to 5) years of experience in intensive care unit. (50 %) of nurses who are worked morning and evening as shift time, and the same obvious percentage represents business hours of nurses at Al-Emam Al-Sadiq Teaching Hospital/morning and evening (24 hrs.). The majority of nurses (78.3 %) did not have training sessions in intensive care unit (only (21.7 %) of nurses have participation in intensive care unit) and the same obvious percentage did not have place of training session (only one nurse of them is outside country (1.7 %) and (20 %) of nurses are inside country). Number of training session, topic of training sessions, training session site, and duration of training session have the same majority percentage (78.3 %).

Table (2): Statistical Distribution of Nurses' Knowledge toward Care of Unconscious Adult Patients

No.	Items	Classification	F	%	M.S	SD	Assessment
		False	5	8.3			
1	Patient considers unconscious if:	True	55	91.7	1.08	.279	Pass
		Total	60	100.0			
		False	6	10.0			
2	Causes of unconsciousness:	True	54	90.0	1.10	.303	Pass
		Total	60	100.0			
3	Which of the following are common	False	7	11.7	1.12	.324	Pass

	causes of unconsciousness?	True	53	88.3			
		Total	60	100.0			
		False	15	25.0			
4	Glasgow coma scale is used to assess:	True	45	75.0	1.25	.437	Pass
		Total	60	100.0			
		False	7	11.7			
5	According to Glasgow coma scale, unconscious patient can classify to:	True	53	88.3	1.12	.324	Pass
		Total	60	100.0			
		False	8	13.3			
6	The normal respiratory rate for an adult male is:	True	52	86.7	1.13	.343	Pass
			60	100.0			
	If a matient is assessed as last with	False	7	11.7			
7	If a patient is cyanosed, what might their oxygen saturation level be?	True	53	88.3	1.12	.324	Pass
			60	100.0			
	Which of the following may result in	False	27	45.0			
8	a decreased supply of oxygen to the brain?	True	33	55.0	1.45	.502	Pass
	orani.	Total	60	100.0			
	Accumulation of socrations in the	False	53	88.3			
9	Accumulation of secretions in the lungs can cause:	True	7	11.7	1.88	.324	Fail
		Total	60	100.0			
	How long should a suction	False	32	53.3			
10	How long should a suction procedure last?	True	28	46.7	1.53	.503	Fail
		Total	60	100.0			
	During the examination of the	False	5	8.3			
11	unconscious patient, the nurse notices that the patient's pupils are	True	55	91.7	1.08	.279	Pass
	fixed and dilated. This refers to?	Total	60	100.0			
	When caring for the unconscious	False	7	11.7			
12	patient, what nursing intervention takes highest priority?	True	53	88.3	1.12	.324	Pass
	P. 22 8 P. 20 P	Total	60	100.0			

		False	2	3.3			
13	What is the priority concern when providing oral hygiene for the	True	58	96.7	1.03	.181	Pass
	unconscious patient?	Total	60	100.0			
	When feeding the unconscious	False	14	23.3			
14	patient with nasogastric tube (NG tube), the priority of care is:	True	46	76.7	1.23	.427	Pass
	tube), the priority of care is.	Total	60	100.0			
	A priority in the postoperative	False	11	18.3			
15	management of a patient who has had intracranial surgery is?	True	49	81.7	1.18	.390	Pass
	nad intractamai surgery is:	Total	60	100.0			
	The earliest sign of increased	False	43	71.7			
16	intracranial pressure (ICP) for unconscious patient is:	True	17	28.3	1.72	.454	Fail
	unconscious patient is.	Total	60	100.0			
	An unconscious patient has a	False	25	41.7			
17	diagnosis of deficient fluid volume related to fluid restriction related to	True	35	58.3	1.42	.497	Pass
	osmotic diuretic use. What would be an appropriate intervention for this diagnosis?	Total	60	100.0			
	An unconscious patient is receiving	False	58	96.7			
18	a lot of fluid for 24 hours, the nurse will recognize that by:	True	2	3.3	1.97	.181	Fail
	will recognize that by.	Total	60	100.0			
		False	23	38.3			
19	To assess hydration status by:	True	37	61.7	1.38	.490	Pass
		Total	60	100.0			
		False	32	53.3			
20	Why would it be necessary to take a 24-hour urine collection for protein?	True	28	46.7	1.53	.503	Fail
		Total	60	100.0			
		False	23	38.3			
21	The appropriate position of the unconscious patient is:	True	37	61.7	1.38	.490	Pass
		Total	60	100.0			
22	What position should not be used for	False	9	15.0	1.15	.360	Pass

	the unconscious patient?	True	51	85.0			
		Total	60	100.0			
		False	9	15.0			
23	To prevent airway obstruction of the unconscious patient:	True	51	85.0	1.15	.360	Pass
		Total	60	100.0			
		False	10	16.7			
24	To protect the unconscious patient from injury:	True	50	83.3	1.17	.376	Pass
		Total	60	100.0			
	To anamont the suppositions actiontly	False	28	46.7			
25	To prevent the unconscious patient's corneal dryness:	True	32	53.3	1.47	.503	Pass
			60	100.0			
	To provent procesure ulear consider	False	6	10.0			
26	To prevent pressure ulcer, consider of:	True	54	90.0	1.10	.303	Pass
		Total	60	100.0			
	How would you know if a nationt	False	5	8.3			
27	How would you know if a patient who is unconscious is in pain?	True	55	91.7	1.08	.279	Pass
		Total	60	100.0			
	Why might a patient need a	False	2	3.3			
28	Why might a patient need a tracheostomy?	True	58	96.7	1.03	.181	Pass
		Total	60	100.0			
	The common complication that	False	15	25.0			
29	occur in the unconscious patient is:	True	45	75.0	1.25	.437	Pass
		Total	60	100.0			
	What diagnostic test is contraindicated in a patient	False	27	45.0			
30	exhibiting clinical manifestations of	True	33	55.0	1.45	.502	Pass
	increased intracranial pressure?	Total	60	100.0			
	The number of surfactont in the	False	31	51.7			
31	The purpose of surfactant in the lungs is:	True	29	48.3	1.52	.504	Fail
		Total	60	100.0			

	What percussion you expect and	False	47	78.3			
32	notice when a patient has pneumothorax?	True	13	21.7	1.78	.415	Fail
	phoumorux.	Total	60	100.0			

No: Number, F: Frequency, %: Percentage, M.S: Mean of score, SD: standard deviation, Pass: M.S = more

than 1.5, Fail: M.S = less than 1.5

Table (2) reveals the statistical distribution of nurses' knowledge toward care of unconscious adult patients, the nurses in which all items reveal enough knowledge (pass) toward care of unconscious adult patients because the mean of score of all knowledge items more than (1.5). Except the items number (9, 10, 16, 18, 20, 31, 32) nurses' knowledge in this item were low (fail) because the mean of score in these items (1.88, 1.53, 1.72, 1.97, 1.53, 1.52, 1.78) less than (1.5).

Table (3): Overall of Nurses' Knowledge Evaluation toward Care of Unconscious Adult Patients

Total	Classification	F	%	M.S	SD	Assessment
0 "	False	0	0			
Overall knowledge	True	60	100.0	1.6880	.08923	Pass
	Total	60	100			

F: Frequency, %: Percentage, M.S: Mean of score, SD: Standard deviation

Table (3) shows that nurses have enough knowledge (pass) toward care of unconscious adult patients (mean of score of overall nurses' knowledge is more than 1.5).

Table (4): Mean Differences (ANOVA) Between the Overall Evaluations of the Nurses' Knowledge According to their Demographic Data

		Nurses' Knowledge					
Demographic Data		Sum of Squares	df	M.S	F	P Value	
	Between Groups	971.471	11	88.316			
Age / Years	Within Groups	1800.713	48	37.515	2.354	.020	
	Total	2772.183	59				
	Between Groups	.909	11	.083			
Gender	Within Groups	5.275	48	.110	.752	.684	
	Total	6.183	59				

	Between Groups	18.373	11	1.670		
Level of Qualification	Within Groups	52.610	48	1.096	1.524	.154
	Total	70.983	59			
Years of	Between Groups	735.542	11	66.867		
Experiences in the	Within Groups	1296.858	48	27.018	2.475	.015
Hospital	Total	2032.400	59			
Years of	Between Groups	187.568	11	17.052		
Experiences	Within Groups	536.165	48	11.170	1.527	.153
in the ICU	Total	723.733	59			

df: Degree of freedom, M.S: Mean of score, F: F-Statistic, P value: Probability value

Table (4) reveals that there are two significant relationships between nurses' knowledge toward care of unconscious adult patients with respect to their age and years of experiences in the hospital (.020, .015) respectively at (**P**-value \geq 0.05). While there is no significant association has been reported between nurses' knowledge with the others demographic data (gender, level of qualification, years of experiences in the ICU) at (**P**- value \leq 0.05).

Discussion:

The analysis of findings in table (1) showed that the majority of the study sample are in the age group (20 to 29) years old within a mean (27.88). These findings are supported by the study who found that the majority of nurses (48%) of the study sample were in the age group (26-29) years old. Also, this finding of the present study supportive evidence is available in the study that showed the age of the study sample is within the age group of (23-26) years of age and within 25.1 \pm 3.8 mean of age. While this finding disagreed with the result of the study where reported that age group were between 31 and 49 years old and with (mean=38.5) (6-7-8)

The majority of nurses is males. These results come along with the findings the study in which higher percentages (75%) of nurses were males. The current finding is also supported by findings of a study reported that the majority of the

samples (60 %) were males. In addition, this finding disagreed with the result of the study where shown that the majority (75 %) of the group study were females. Also, the findings of the current study are disagreed with a study that stated the majority (88.8 %) of the study group were females (7-8-9-10)

According to the subject marital status, most of the sample are single. This finding of the current study is disagreed with a study where reported that the majority of the present study (70%) are married. Also, this finding inconsistence with the result of the study which stated that the majority of nurses were married ⁽⁸⁻⁹⁾

Regarding level of qualification, more than half of the nurses are academic nurse. These results agreed with the findings of the study who reported that (80%) of nurses had bachelor. Additionally, this finding is also supported by a study who stated that the majority of nurses (42.5

%) were college of Nursing graduated. But the findings of the current study are disagreed with the study which found that half (50 %) of nurses were high nursing school graduate. Also, the findings of the current study are disagreed with the study which shown that half of participants were master's degree in nursing and the others were bachelor's degree in nursing. In addition, this finding was not supported by the result of the study who mentioned that sixty nurses (50%) had a diploma in nursing, 50 (42%) had a bachelor's degree and 10 (8%) had a master's degree in nursing (6-7-8-9-10)

In table (2), the result of this study represents assessment of nurses' knowledge toward care of unconscious adult patients, nurses' knowledge is assessing according to pass that indicate good nurses' knowledge and fail which represents poor nurses' knowledge in all items.

The researcher believes that the nurses have good knowledge due to years of experience in the hospital as general and in intensive care unit as specific.

Most items of nurses' knowledge are agreed with the results of who reported that good and satisfied nurses' knowledge for true answer and unsatisfied nurses' knowledge for false answer ⁽⁶⁾

In table (3), the result of this study represents assessment of overall nurses' knowledge toward care of unconscious adult patients, the nurses had good knowledge lead to pass of nurses most the items regarding to nurses' knowledge.

This finding is consistence with the study where stated that nurses had satisfied knowledge about immediate care of unconscious patient ⁽⁶⁾

Also, this finding is also supported with findings of the study which reported that nurses had average knowledge regarding care of unconscious patients (11).

In addition, these findings disagreed with the results of the study who founded that nurses in the cardiac intensive care unit had much lower levels of knowledge and awareness regarding increased risk of exposure keratopathy compared to nurses in the Medical Intensive Care Unit (7)

Regarding table (4), data analysis indicated that no significant relationships between nurses' knowledge and gender, level of qualification, years of experiences in the ICU. While they were highly significant relationships between nurses' knowledge and their age and years of experiences in the hospital.

The researcher believes that the present of such a relationship is due to increase nurses' acquired experiences in the hospital and participation in training sessions under the hospital program.

This finding agreed with the findings of the study where shown that no association between nurses' knowledge and ICU experience. While these findings disagreed with the same results of the study who mentioned that present relationships between nurses' knowledge and age, years of experience in the hospital (11,12)

Recommendations:

- 1. Engaging critical care nurses in special training sessions to increase their knowledge concerning care of unconscious adult patients.
- 2. The study recommends developing assessment sheet for skills and daily nurses note for neurological unconscious patients, release guideline in the hospital for care of unconscious adult patients depends upon hospital policy and strategy and increase training-session program fornurses for care of unconscious patient and intensive care unit.
- 3. Engaging nurses who has bachelor's degree in critical care units.

References:

- 1. Manorama, k., (2015). Assess the Effectiveness of Self-Instructional Module on Knowledge Regarding Communication to Unconscious Patient among Staff Nurses Working in ICU at Selected Hospitals in Maharashtra. *International Journal of Science and Research (IJSR)*.
- 2. Cawangan, K. p., et al., 2012. Management protocols in ICU.
- 3. Lakanmaa, R. L., Suominen, T., Ritmala-Castrén, M., Vahlberg, T., & Leino-Kilpi, H. (2015). Basic competence of intensive care unit nurses: cross-sectional survey study. *BioMed research international*, 2015.
- 4. Balsam G, 2016. Assessment of Nurses Knowledge Regarding Care of Unconsciousness Patients in El-mak Nimer University Hospital (Doctoral dissertation, Shendi University
- 5. Doug Elliott, Leanne Aitken and Wendy Chaboyer, ACCNS, CRITICAL CARE NURSING,2nd edition. 2012 Elsevier Australia.

- 6. Gaffar, B. (2016). Assessment of Nurses Knowledge Regarding Care of Unconsciousness Patients in El-mak Nimer University Hospital (Doctoral dissertation, Shendi University.
- 7. Vyas, S., Mahobia, A., & Bawankure, S. (2018). Knowledge and practice patterns of Intensive Care Unit nurses towards eye care in Chhattisgarh state. *Indian journal of ophthalmology*, 66(9), 1251.
- 8. Bagherian B, Sabzevari S, Mirzaei T, Ravary A (2017) Meaning of Caring from Critical Care Nurses' Perspective: A Phenomenological Study. J Intensive & Crit Care Vol. 3 No. 3:33.
- 9. Faris, Haitham Ibrahim, and Huda Baker Hassan. "Evaluation of Nurses Practices Concerning Sterile Techniques Critical Care Units in Al-Najaf AL-Ashraff City Hospitals. International Journal of Scientific and Research Publications, Volume 6, Issue 6, June 2016): 694-700
- 10. Ghanim, A. A., & Jaddoue, B. A. (2011). Assessment of Nurses' Practices for Neurological Unconscious Patients in Intensive Care Units. *nursing national Iraqi specility*, 24(1), 1-9.)
- 11. Khemnar A., (2016). An Exploratory Study to Assess the Knowledge and Attitude of Staff Nurses Regarding Care of Unconscious Patients in Selected Hospitals of Pune City. *International Journal of*
- Science and Research (IJSR) ISSN (Online):2319-7064
- Batool Widad K. 12. Jaddoua. A., D. Mohammed. and Ali Abbas. "Assessment of nurse's knowledge concerning glasgow coma scale in neuro surgical wards." kufa Journal for Nursing sciences 3, no. 2 (2013): 133-142.