

Application of Designed Orientation Program for Nurse Interns Based on Learning Needs Assessment

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Abstract: Orientation programs based on LNA encourage nurse interns to feel safe and enable them to demonstrate competency in the basic clinical and management skills needed for providing high quality and safe patient care. Using LNA ensure NIs commitment to these program. This study aimed to design, implement, and evaluate an orientation program about clinical and management skills needed for nurse interns based on the findings of learning needs assessment tool. The study was conducted at Tanta University Faculty of Nursing and Tanta University Emergency and Main Hospitals ICUs and obstetric and dialysis departments. **SUBJECTS:** (384) nursing students passed the 4th academic year attended the orientation program. (198) spent their internship year at TUHs were included in the researcher's observation 3 months post program. **TOOLS:** The data collection was achieved by using LNA scale, knowledge test, NIs' orientation program and follow up observation sheet. **RESULTS:** Pre program around half (51%) of NIs assessed themselves as cannot carryout different clinical and management skills. Majority (87%) of NIs got low knowledge level for both skills. Post orientation program statistical significant improvement at ($P \leq 0.05$) was found in NIs' knowledge and practical levels for both clinical and management skills. It is recommended to conduct orientation programs based on nurse interns' LNA and knowledge test before starting internship year and at the beginning of each new rotation, provide nurse interns with pass booklet include standard procedures required to be carried out in each rotation, provide them also with designed evaluation manual based on the pass booklet and implementing nursing mentor-ship and preceptor-ship programs during internship year [Heba K. Obied, Fouada M. Shabaan, Helmy H. Shalaby, and Samar H. Gadiry. **Application of Designed Orientation Program for Nurse Interns Based on Learning Needs Assessment.** *J Am Sci* 2013;9(3):80-92]. (ISSN: 1545-1003). <http://www.jofamericanscience.org>. 12

Key words: Orientation program, nurse interns, learning needs assessment.

1. Introduction

The internship year is considered a time of transition from undergraduate nursing students to beginning level registered nurses. During this year nurse interns should acquire the values, attitudes, and goals fundamental to the nursing profession^(1,2). At the beginning of the internship year many nurse interns feel uncomfortable and inadequacy as their skill levels do not match their expectations of the role and responsibilities of a practicing as a registered nurse⁽³⁾. During internship year nurse interns are expected to work in intensive care units (ICUs) under supervision of experienced knowledgeable supervisors⁽⁴⁾.

Today's health care arena become complex and suffer from severe nursing shortage and limited budgets for continuing education programs; that affect organization's ability to provide comprehensive orientation programs for new graduates or for nurse interns.

In addition hospital administrators' expect nurse interns to be competent to function and take responsibilities in nursing service at the time of graduation with adequate clinical and patient management skills to cover shortage and decrease the

workload on experienced staff. Consequently nurse interns are imposed to the work field responsibilities early⁽⁵⁻⁸⁾. Therefore, nursing faculties have to provide interns with a supportive clinical environment in terms of skills, knowledge, practice, reflection and cultural socialization to help them to feel competent and supported⁽⁹⁾.

Effective internship year should starts with orientation program to enhance the nurse interns' knowledge and relieve their stress. Nursing faculties are responsible for designing and implementing appropriate internship programs to smooth transition from student to registered nurse. Well designed internship program facilitate interns' entry into clinical practice, support their growth along the continuum of expertise, and development of essential leadership skills within the field of health care^(10,11).

Orientation program encourage nurse interns to feel welcome, safe and valued, so it eases transition and provide them with opportunities to develop self confidence, increase job satisfaction and chances to demonstrate competency in the basic skills needed for providing high quality and safe patient care^(5,12,13). Orientation program ensures useful transition time if it is based on the interns' key learning needs and considers teaching and learning activities grounded in

practice experience, skilled and well-supported preceptors and structured learning framework⁽¹⁴⁾.

LNAs are often conducted to identify deficiencies in knowledge, skill, behavior, or attitude in the current teaching practices, or to anticipate deficiencies based on expected changes in health care needs. So orientation program based on LNA match the nurse interns' unique learning needs not only nursing service needs⁽¹⁵⁻¹⁸⁾.

So this study aimed to assess nurse interns' learning needs before entering clinical practice setting and design a suitable orientation program for covering the gaps in their clinical and management knowledge and skills. This study also aimed to evaluate the nurse interns' statistical change of clinical and management knowledge and skills after attending the orientation program.

Aim of the study:

This study aimed to apply a designed orientation program for nurse interns based on learning needs assessment through:

Design, implement, and evaluate an orientation program about clinical and management skills needed for nurse interns based on the findings of using learning needs assessment tool.

2. Materials and Method:

Study design: Cross-sectional study design was utilized to achieve the aim of this study.

Setting: The study was conducted at Tanta University Faculty of Nursing.

Tanta University **Emergency and Main Hospitals** Intensive Care Units (ICUs) include medical, anesthetic, neurological, neonatal, pediatric, and cardiac. In addition to obstetric and dialysis departments.

Subject

All the nursing students (384) passed the fourth academic year (2009-2010) attended the designed orientation program based on their learning needs assessment and participated in pre and post program knowledge test.

All (198) nursing students who spent their internship year (2010-2011) at Tanta University Hospitals were included in post program observation after three months.

Tools of the study: to collect the data four tools were used:

1. Learning needs assessment scale, developed by the researcher guided by Zerwekh (2006)⁽⁵³⁾ and Fakhry (2005)⁽¹⁵⁹⁾ and others, to assess nurse interns' clinical and management learning needs immediately before starting internship year. The sheet contained part of demographic data, and (150) items cover clinical subscales (91) items

and management subscales (59). Responses were measured by three points Likert Scale for clinical subscale ranging from can do it by myself to can't do it by myself. And two points Likert scale ranging from able to not able for management subscale.

2. Nurse interns' knowledge test, designed by the researcher and used to collect data from nurse interns. The test composed of (100) questions cover both clinical and management subscales. Scoring system represent knowledge levels of nurse interns' ranging from low ($\leq 60\%$), medium ($>60\% - \leq 80\%$) to high ($>80\%$).
3. Nurse interns' orientation program was designed by the researcher based on the findings of the learning needs assessment scale and nurse interns' knowledge test tools (1&2) (pre-test). At the end of the program, a post-test was carried out used tool (2) for sample (384) of nurse interns before starting internship year to assess the extent to which desired stated objectives and assumed needs were achieved.
4. Follow up observation sheet, included the same items in the learning needs assessment scale to evaluate nurse interns' actual performance of clinical and management skills after three months of the orientation program during their internship year. Researcher's observations to clinical skills were measured by four points Likert Scale ranged from can do it herself to not applicable. Management skills were measured by two points Likert Scale range from able to do to not able to do.

Method of data collection

1. An official permission was obtained from responsible authorities including Faculty of Nursing and Hospitals of Tanta University to conduct the study.
2. The learning needs assessment scale was submitted to a jury of ten experts from different nursing specialties to get their suggestions about content validity and applicability of the tool.
3. A pilot study was conducted on ten students out of the proposed sample two times (two weeks separated) to measure test-retest reliability.
4. The content validity index was (93%), internal consistency reliability was (0.9501) and the test-retest reliability that was (0.9725).
5. Nurse interns' learning needs of clinical and management skills were assessed by (tool 1).
6. Nurse interns' knowledge was tested by (tool 2) pre implementation of the orientation program.
7. The nurse interns' orientation program was designed based on the assessment data and literature review. The program was implemented

by the researcher and started two weeks just before internship year; it was ten hours duration divided into five sessions each session two hours for five days. The nurse interns' were divided into two groups each group attended the five sessions.

8. Nurse interns' knowledge was tested post program by tool (2).
9. Nurse interns' were followed up in their clinical areas for the first three months after the implementation of the orientation program, then they were reevaluated using follow up observation sheet (tool 3).

3.Results

Table (1) represents demographic characteristics of nurse interns. Nurse interns (73.2%) were in the age group $\leq 20-22$. Majority (81%) of nurse interns graduated from general secondary school, while minority (6%) graduated from secondary technical nursing school.

About two third (65%) of the subject had graduation level very good and (7.6%) had excellent graduation level. NIs (71.4%) did not have previous training. While (28.6%) had previous training, (61.9%) of them trained during third and fourth academic years, (20.9%) trained during all the four academic years and (17.2%) trained during first and second academic years. Training mean period was (3.4 ± 0.45) months. Those trained NIs (40.9%) of them had trained in ICUs and (34.5%) trained in medical surgical wards.

Figure (1) shows that pre program more than half (51%) of nurse interns assessed themselves as cannot do, while (49%) can do both clinical and management skills. More than half (53%) of interns assessed themselves as cannot do clinical skills, while (42%) as cannot do management skills. Table (2) represents nurse interns' LNA total clinical skills scales pre orientation program. Nurse interns' (71.3% and 69.1%) can assess vital signs and collect patient's data respectively. Also (65.5%, 64.5%, 64.1%, 63.3% and 60.9%) can do assess anthropometric measures, prevent immobility complications, apply safe practice & infection control, heat & cold therapy and perform patient hygiene by themselves respectively. Nurse interns (45.4 %, 43.7%, 42% and 41.8%) can not provide by themselves elimination care, assist in diagnostic procedures, provide gastrointestinal care and provide cardio-respiratory care respectively. Around one third (33.1% and 32.8%) of the nurse interns can not provide by themselves newborn care or apply mechanical restraining respectively. More than quarter (29.4% and 28%) can not assess by themselves neurological condition or provide wound care respectively.

Table (3) represents nurse interns' LNA total management skills subscales pre orientation program. Nurse interns (56.9% and 57.9%) respectively were able to carryout interpersonal and organizational skills. Interpersonal skills showed that nurse interns (41.3%, 41.9% and 46%) were not able to carryout interpersonal relation & caring, communication, and conflict management skills respectively. Organization skills showed that nurse interns (44.4%, 40.4% and 41.4%) were not able to carryout problem solving, decision making and time management skills respectively. Also (43.6% and 39.5%) of interns were not able to carryout priority setting and delegation skills respectively.

Table (4) represents significant difference between nurse interns' total knowledge level on different clinical skills subscales pre & post orientation program. The table shows statistical significant improvement of NIs' knowledge level post program in all clinical scales at ($P \leq 0.05$). High percent (77%) of nurse interns' had low and the rest (23%) had moderate knowledge of clinical skills pre program. Post program NIs (78%) had high, (20%) had moderate, while only (2%) had low knowledge in clinical skills. Pre program NIs (90%, 74% and 73%) had low knowledge of clinical skills on assess comfort & neurologic state, diagnostic procedures & collect samples and assess vital signs scales. NIs (61%, and 58%) had low knowledge of clinical skills on safe practice & infection control, gastrointestinal scales respectively. Post program nurse interns (85%, 84%, 84%, 74% and 74%) had high knowledge of clinical skills on medication administration & IV access, collect patient's data, elimination, safe practice & infection control and newborn care scales respectively.

Table (5) represents significant difference between nurse interns' total knowledge levels on different management skills subscales pre & post orientation program. The table shows statistical significant improvement of nurse interns' knowledge level post program in all management scales at ($P \leq 0.05$). The majority (92%) of the nurse interns' had a low score and the rest (8%) of the sample had a moderate score in the management knowledge pre program, while majority (84%) had a high score and the rest (13%) had moderate score in the management knowledge post program. Pre program considerable percents (67%, 70%, 49% and 80%) of interns had low knowledge level on interpersonal, organization, priority setting and delegation skills respectively. Post program, Majority (81%, 85% and 90% 75%) of the interns had high knowledge level on interpersonal, organization, priority setting and delegation skills respectively.

Table (6) represents correlation between NIs' total clinical knowledge and learning needs assessment subscales of clinical skills pre orientation program. The table reveals a statistical significant positive correlation between the NIs' clinical knowledge and LNA related to safe practice & infection control ($r=0.142$, $P<0.01$), cardio-respiratory ($r=0.152$, $P<0.01$), administration of medication ($r=0.151$, $P<0.01$) and cold and heat therapy ($r=0.104$, $P<0.05$).

Table (7) represents correlation between NIs' total management knowledge and learning needs assessment subscales of management skills pre orientation program. The table shows that pre program there was a negative non significant statistical correlation (weak inverse correlation) between the nurse interns' knowledge level and their learning needs assessment related to total interpersonal skills. Although there was a statistical significant positive correlation between the nurse interns' management knowledge and their learning needs assessment related to conflict management skills subscale of interpersonal skills scale ($r=0.120$, $P<0.019$).

Figure (2) shows that pre program more than half (63%) of the nurse interns were able, while (37%) were not able to carry out both management

and clinical skills in LNA scales. Researcher's observation 3 months post program revealed that majority (86%) were able, while only (14%) were not able to carry out both management and clinical skills respectively.

Figure (3) shows that pre program (37%, 25% and 38%) of the nurse interns can do by themselves, under-supervision, and cannot do by themselves the clinical skills of the LNA scale respectively. But researcher's observation 3 months post program (77% and 9%) of the nurse interns can do by themselves and under-supervision of the clinical skills respectively.

Figure (4) shows that (35%) of the interns were unable, while (65%) were able to apply total management skills pre program. But researcher's observation 3 months post program reveals that (85%) of interns can apply, while (15%) cannot apply total management skills. **Figure (5)** shows statistical correlation between nurse interns' total knowledge and researcher's observation 3 months post orientation program. There is a statistical significant positive ($P<0.05$) correlation between interns' total knowledge (clinical and management) level and researcher's observation 3 months post program for intern's clinical and management skills.

Table (1). Demographic characteristics of the nurse interns.

Items	Nurse Interns (n=384)		
	no.	%	
<u>Age (years)</u> ≤ 20-22	281	73.2	
	> 22	103	26.8
<u>Previous graduation school</u>	General secondary school	311	81.0
	Secondary Technical Nursing School	23	6.0
	Health Technical Institute	50	13.0
<u>Graduation level</u>	Excellent	29	7.6
	Very Good	250	65.1
	Good	78	20.3
	Satisfactory	27	7.0
<u>Previous training (months)</u>	No	274	71.4
	Yes	110	28.6
First& second academic years	19	17.2	
	third & fourth academic years	68	61.9
	All years	23	20.9
<u>Training units</u>	Neonates ICU	13	11.8
	Medical surgical	38	34.5
	Emergency Room	4	3.6
	Intensive Care Units	45	40.9
	Operation Room	7	6.4
	Obstetric	3	2.7

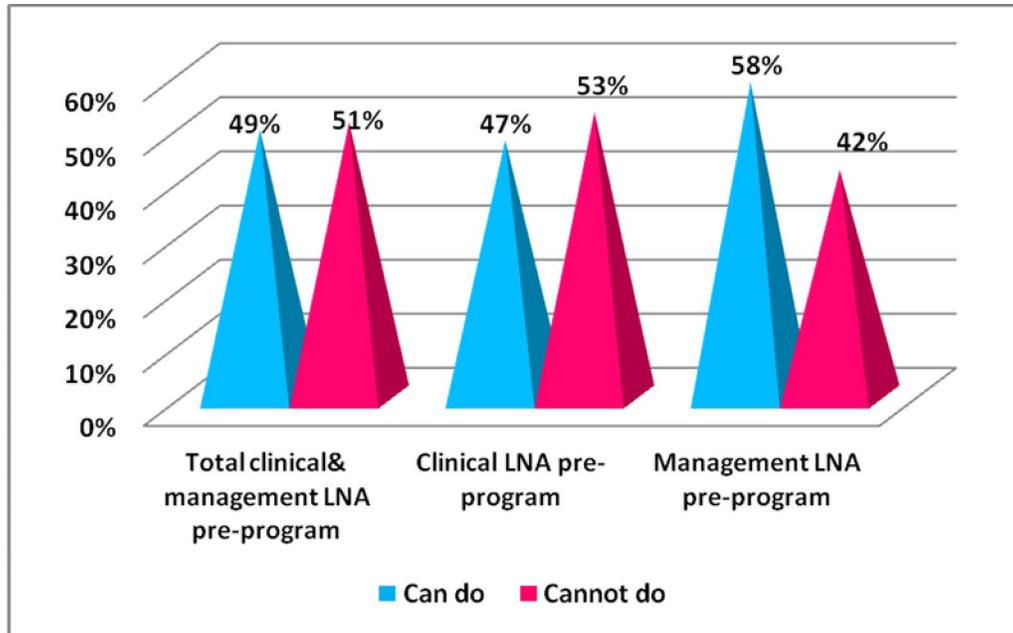


Fig.(1) Nurse interns' learning needs assessment for clinical and management skills pre orientation program. (No.=384).

Table (2). Nurse interns' learning needs assessment total clinical skills scales pre orientation program. (No=384).

Clinical skills scales	Can do it myself		Can do it under supervision		Can not do it myself	
	No	%	No	%	No	%
Collect patient's data	266	69.1%	83	21.4%	36	9.4%
Assess vital signs	274	71.3%	89	23.2%	21	5.5%
Assess anthropometric measures	252	65.5%	84	21.9%	49	12.6%
Assess stat of comfort	187	48.6%	137	35.7%	60	15.8%
Assess neurological condition	131	34.1%	140	36.5%	113	29.4%
Collect samples	181	47.0%	104	27.0%	100	26.0%
Assist in diagnostic procedures	106	27.5%	111	28.8%	168	43.7%
Safe practice & infection control	246	64.1%	98	25.4%	40	10.5
Provide cardio-respiratory care	94	24.4%	130	33.8%	161	41.8%
Provide gastrointestinal care	89	23.1%	134	34.9%	161	42.0%
Provide elimination care	100	26.1%	109	28.4%	174	45.4%
Medication administration & IV access	207	53.8%	86	22.3%	92	23.9
Provide wound care	159	41.3%	118	30.7%	108	28.0%
Prevent immobility complications	248	64.5%	68	17.8%	68	17.7%
Perform patient hygiene	234	60.9%	69	18.0%	81	21.1%
Apply heat & cold therapy	243	63.3%	70	18.2%	71	18.4%
Apply mechanical restraining	122	31.8%	136	35.4%	126	32.8%
Provide newborn care	143	37.2%	114	29.7%	127	33.1%

Table (3). Nurse interns’ learning needs assessment total management skills subscales pre orientation program. (No=384).

Management skills subscales	Able		Not able	
	No	%	No	%
Interpersonal skills	222	56.9%	162	43.1%
Interpersonal relation & caring	225	58.7%	159	41.3%
Communication	223	58.1 %	161	41.9%
Conflict management	207	54.0%	177	46.0%
Organizational skills	222	57.9%	162	42.1%
Problem solving	214	55.6%	170	44.4%
Decision making	229	59.6%	155	40.4%
Time management	225	58.6%	159	41.4%
Priority setting	217	56.4%	167	43.6%
Delegation	232	60.5%	152	39.5%

Table (4). Significant difference between nurse interns’ total knowledge levels on different clinical skills subscales pre& post orientation program. (No.=384)

Total knowledge level	Program	High		Moderate		Low		Chi-square (P-value)
		No	%	No	%	No	%	
Clinical skills subscales.	Pre	0	0%	87	23%	297	77%	0.000*
	Post	299	78%	76	20%	9	2%	
Collect patient's data	Pre	105	27%	131	34%	148	39%	0.000*
	Post	321	84%	40	10%	23	6%	
Assess comfort& neurologic state	Pre	5	1%	35	9%	344	90%	0.000*
	Post	175	46%	135	35%	74	19%	
Assess vital signs	Pre	6	2%	96	25%	282	73%	0.000*
	Post	243	63%	119	31%	22	6%	
Safe practice& Infection control	Pre	41	11%	108	28%	235	61%	0.000*
	Post	285	74%	58	15%	41	11%	
Cardio-respiratory care	Pre	59	15%	155	40%	170	44%	0.000*
	Post	320	83%	56	15%	8	2%	
Diagnostic proc& Collect samples	Pre	16	4%	85	22%	283	74%	0.000*
	Post	208	54%	129	34%	47	12%	
Medication admin. &IV access	Pre	61	16%	146	38%	177	46%	0.000*
	Post	328	85%	47	12%	9	2%	
Wound care	Pre	57	15%	211	55%	116	30%	0.000*
	Post	244	64%	125	33%	15	4%	
Prevent immobility complication	Pre	29	8%	84	22%	271	71%	0.000*
	Post	221	58%	109	28%	54	14%	
Gastrointestinal care	Pre	14	4%	148	39%	222	58%	0.000*
	Post	185	48%	158	41%	41	11%	
Elimination care	Pre	186	48%	156	41%	42	11%	0.000*
	Post	324	84%	56	15%	4	1%	
Patient hygiene	Pre	69	18%	197	51%	118	31%	0.000*
	Post	258	67%	112	29%	14	4%	
Restrain	Pre	67	17%	176	46%	141	37%	0.000*
	Post	254	66%	103	27%	27	7%	
Newborn care	Pre	61	16%	221	58%	102	27%	0.000*
	Post	284	74%	83	22%	17	4%	

*significant at $p \leq 0.05$

Table (5). Significant difference between nurse interns’ total knowledge levels on different management skills subscales pre& post orientation program. (No.=384)

Total Knowledge level	Program	High		Moderate		Low		X ² (P-value)
		No	%	No	%	No	%	
Management skills subscale	Pre	0	0%	32	8%	352	92%	0.000*
	Post	323	84%	48	13%	13	3%	
Interpersonal Skills	Pre	21	6%	104	27%	259	67%	0.000*
	Post	293	81%	74	16%	17	3%	
Interpersonal relation & caring	Pre	16	4%	116	30%	252	66%	0.000*
	Post	280	73%	91	24%	13	3%	
Communication	Pre	42	11%	141	37%	201	52%	0.000*
	Post	315	82%	57	15%	12	3%	
Conflict management	Pre	6	2%	53	14%	325	85%	0.000*
	Post	286	74%	74	19%	24	6%	
Organization skills	Pre	149	12%	99	18%	235	70%	0.000*
	Post	291	85%	52	5%	41	10%	
Time management	Pre	52	14%	172	45%	160	42%	0.000*
	Post	279	73%	89	23%	16	4%	
Problem solving	Pre	81	21%	0	0%	303	79%	0.000*
	Post	300	78%	0	0%	84	22%	
Decision making	Pre	16	4%	125	33%	243	63%	0.000*
	Post	293	76%	67	17%	24	6%	
Priority setting skills	Pre	78	20%	116	30%	190	49%	0.000*
	Post	346	90%	32	8%	6	2%	
Delegation skills	Pre	1	0%	76	20%	307	80%	0.000*
	Post	288	75%	68	18%	28	7%	

*significant at $p \leq 0.05$

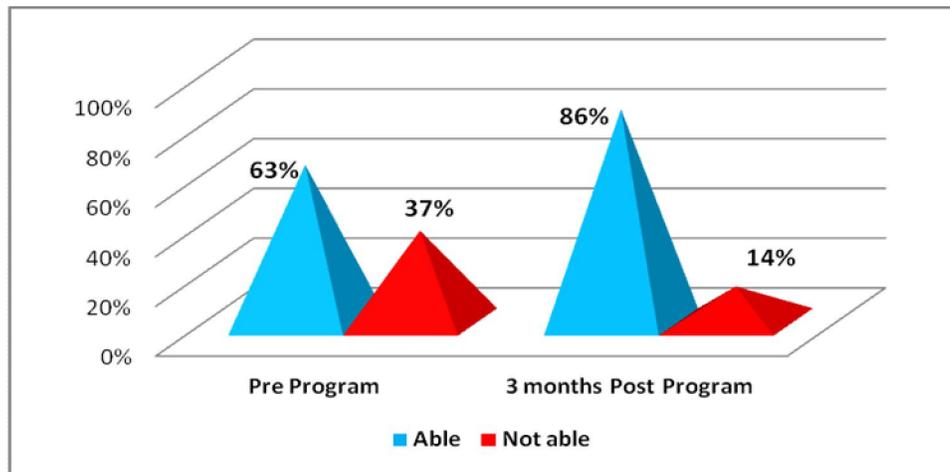


Fig.(2): Nurse interns’ pre orientation program learning needs assessment (for both total management and clinical skills) and researcher’s observation 3 months post program. (No.=198)

Table (6). Correlation between nurse interns’ total clinical knowledge and learning needs assessment subscales of clinical skills pre orientation program. (No. = 384).

Clinical knowledge and learning needs assessment subscales.	Correlation between knowledge & learning needs assessment pre program	
	r	P- value
Collect patient's data	0.070	0.172
Assess comfort& neurologic state	-0.039	0.451
Assess vital signs	0.007	0.884
Safe practice& Infection control	0.142**	0.005
Cardio-respiratory care	0.152**	0.003
Diagnostic pros& Collect samples	0.053	0.300
Medication administration &IV access	0.151**	0.003
Wound care	0.097	0.056
Prevent immobility complications	0.070	0.173
Gastrointestinal care	0.048	0.353
Elimination care	0.008	0.882
Patient hygiene	0.065	0.207
Cold and heat therapy	0.104*	0.041
Applying mechanical restrain	-0.058	0.255
Newborn care	0.092	0.073

*. Correlation is significant at the 0.05 level. **. Correlation is significant at the 0.01 level.

Table (7). Correlation between nurse interns’ management total knowledge and learning needs assessment subscales of management skills pre orientation program. (No.= 384)

Management knowledge and learning needs assessment subscales	Correlation between knowledge & learning needs assessment pre program	
	r	P- value
Interpersonal skills	-0.024	0.637
Interpersonal relation & caring	0.033	0.524
Communication	-0.045	0.377
Conflict management	0.120*	0.019
Organizational skills	0.089	0.081
Problem solving	0.089	0.081
Decision making	0.065	0.206
Time management	0.041	0.421
Priority setting	0.038	0.453
Delegation	0.002	0.977

*Correlation is significant at the 0.05 level .

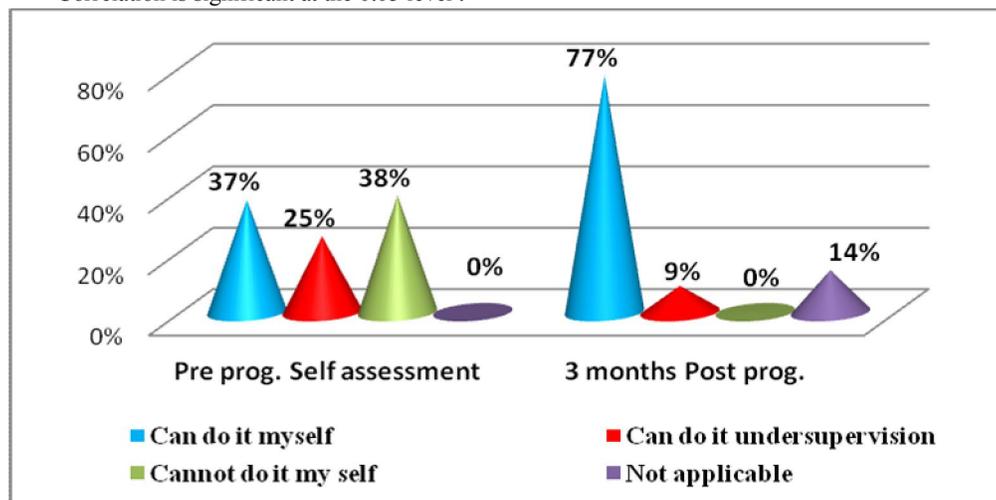


Fig.(3) Nurse interns’ LNA of total clinical skills pre program and researcher’s observation3 months post orientation program. (No.=198)

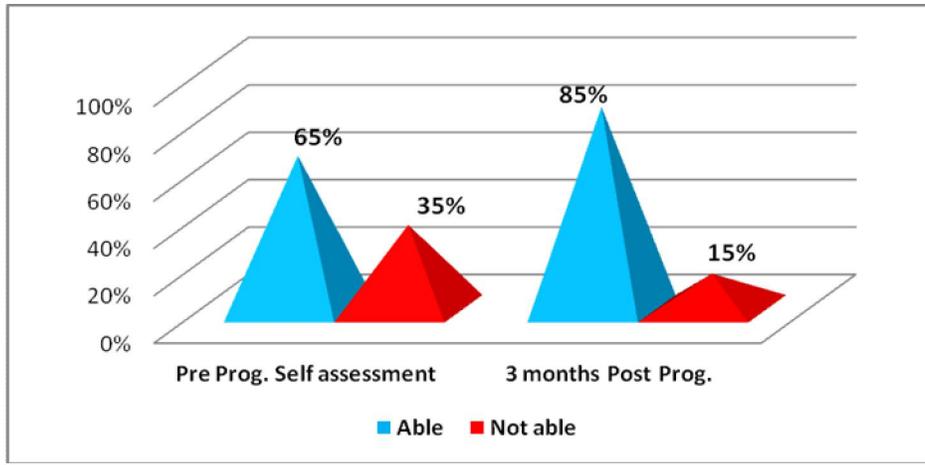


Fig.(3) Nurse interns' LNA of total clinical skills pre program and researcher's observation 3 months post orientation program. (No.=198)

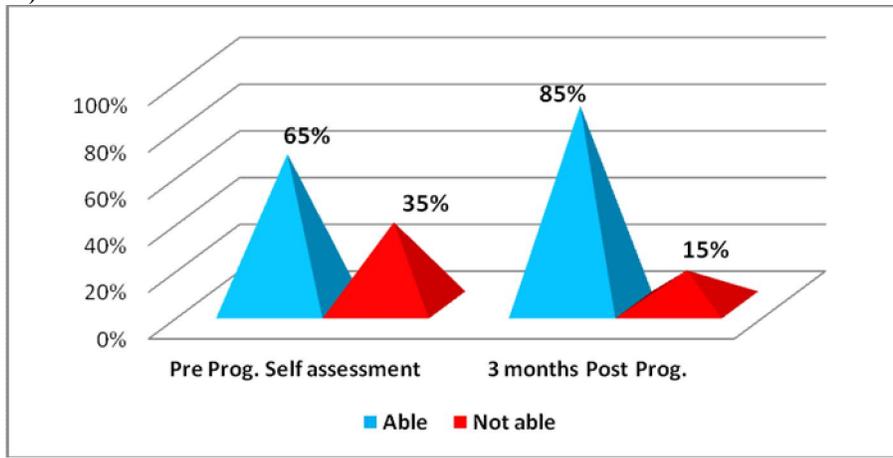


Fig.(4) Nurse interns' learning needs assessment pre orientation program and researcher's observation 3 months post program of total management skills. (No.=198)

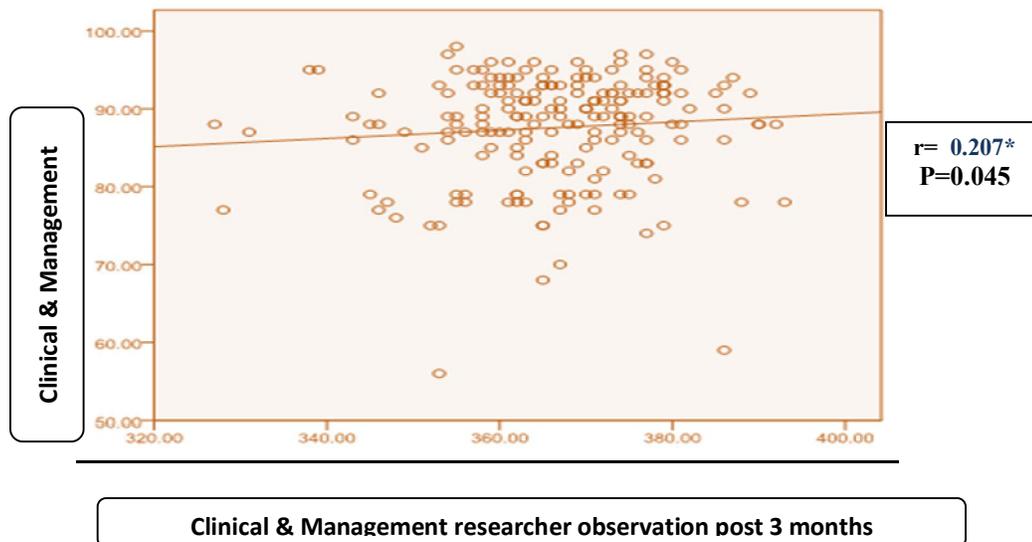


Fig. (5) Correlation between nurse interns' total knowledge (clinical and management) and researcher's observation 3 months post program.

4. Discussion

Learning needs assessment guarantee a relevant and accurate pre-internship orientation program thus fosters a smooth transition from nursing students to professional registered nurse. Results of using a well designed learning needs assessment (LNA) tools can guide nursing faculties to fill in the theory practice gap in NIs' performance and strengths the weak points in the nurse interns' knowledge.

The present study results revealed no statistical significant correlation between NIs' learning needs self assessment and their pre-orientation program knowledge on clinical and management skills. Around half of NIs assessed themselves as can do clinical and management skills; in despite of the incorrect answers for the majority of NIs on basic knowledge test questions about clinical and management skills. Most probably this contradiction is due to their overestimation of their abilities. So those NIs require continuous and constructive feedback on their abilities and progress to identify gaps between their practice and related basic knowledge. **Khamis (2009)**⁽¹⁹⁾ study about the impact of management program on competencies of NGs during internship year supported results of the present study and found a remarkable disparity between nurse interns' knowledge and the level of their practical skills.

Feedback is an effective method of improving performance because it allows nurse interns to correct earlier misunderstandings that developed during learning process. Providing feedback can be done fairly quickly, with little expenditure of time to improve the learning process in clinical setting and ensure interns' master of clinical tasks.

The results of present study revealed that there is a statistical significant correlation between nurse interns' total knowledge (clinical and management) with their previous training, their graduation level and their previous graduation school. Really NIs got high graduation level and had previous training in private hospitals specially those trained in ICUs as well as those graduated from institute or nursing schools got opportunities to apply their learned skills in practical situations, helped them to interact with more experienced healthcare staff and improved their skills performance. **Beccroft (2009)**⁽¹⁾ study about "internship outcomes of one year pilot program" supported the present study findings, and found that high percent of nursing interns whom had an excellent graduation level showed high competency level, while only low percent of nursing interns who have a good graduation level showed moderate level of competency.

Findings of present study showed that more than half of NIs assessed themselves as cannot do both

clinical standard and management skills. Those NIs' clinical knowledge test preprogram showed that they had poor knowledge level regarding both clinical and management skills.

The fact is that those NIs' knowledge were poor about ten out of eighteen skills understudy including assess state of comfort, assess neurological condition, collect samples, assist in diagnostic procedures, apply safe practice and infection control measures and apply mechanical restrain. Besides, they had poor knowledge level regarding cardio-respiratory, gastrointestinal, elimination, wound, and newborn care skills.

The results of LNA revealed that around forty percent of nurse interns assessed themselves as being not able to carryout all the management skills. Those NIs were not able to carryout interpersonal skills, organizational skills, priority setting and delegation skills. Majority of those interns showed low level of management knowledge and minority were at moderate level of knowledge.

These results may be because at the beginning of their transition NIs suspect their management knowledge and skills, they still not have any refreshing courses or orientation program. Nurse interns look for internship years as the sparkling beginning of their professional carrier, and they will be treated as a trainee, they dream with practicing under supervision of highly experienced nursing staff, whom will provide them with direction. Those interns need specific job description that clarify their role and are in need of pre-internship orientation program to support their skills and refresh their knowledge.

The present study findings confirmed by **Morrow (2009)**⁽²⁰⁾ whom found that novice nurses were inadequately prepared in the areas of critical thinking skills, decision making and problem solving. Also **Greenwood (2000)**⁽²¹⁾ reported that novice nurses had poor time management skills and prioritization, and a general inability to convert theoretical training to real-world situations.

Those NIs were not able to do interpersonal relation & caring, communication and conflict management skills. Their lack of interpersonal management skills knowledge is the apparent cause for their inability to carryout these skills. Contradicting to the present study findings **Arthur (2008)**⁽²²⁾ studied assessing nursing students' basic communication and interviewing skills found that nurse interns rated themselves as able to provide good therapeutic interpersonal relations and communication skills while providing practical care.

Present study LNA revealed that nurse interns assessed themselves as being not able to carryout conflict management skills. This can be interpreted as

the pre-graduate education did not sufficiently prepare those interns for managing conflict. They studied lectures on conflict resolution; but they did not have enough chance to apply theory into practice. Even during their undergraduate practice in healthcare setting the instructors try to overly protect their students and resolve any conflict with patients, nurses, doctors, or even with their colleagues. **Obied (2008)**⁽²³⁾ study about management of workplace violence against nurses confirmed present study and found that NIs' lack of conflict resolution strategies and interpersonal skills constitute one of the main reasons behind NIs' experience of workplace violence.

The results of the LNA of present study showed that nurse interns assessed themselves as being not able to carryout organizational skill. They were not able to do each of solve problems, make decisions, or even mangle their time. Those interns showed low knowledge regarding organizational skills. Those NIs lacking of organizational knowledge and skills make them to feel inadequate and increase their fear of harming patients or miss any care. They have to learn how to group simultaneous interventions to master their own time, skills, and be able to provide care independently with no external guidance. So those NIs require orientation program on management organization knowledge to support them to regain self confidence.

Based on the findings of LNA of present study the nurse interns assessed themselves as being not able to carryout interpersonal skills.

Findings of LNA illustrated that nurse interns assessed themselves as being not able to carryout decision making skills. Most probably this result reflects their lack of decision making skills knowledge. They answer incorrectly about questions related to timing of decision making, steps of decision making process and personal barriers of decision making. So it is suggested that a formal orientation program that enhance critical thinking and decision making ability should be given to NIs to improve their knowledge and skills pre-internship year. Consequently they will be clinically effective in making decisions and reduce the risk of committing errors.

Gillespie & Peterson (2009)⁽²⁴⁾ study about helping novice nurses make effective clinical decisions supported the present study findings and reported that many novice nurses fall in different errors as they lack critical thinking and decision making skills. They stated that novice nurses with limited experience in the care settings, in which they work, tend to view decision-making as nearly responding to patient complaints and following protocols or documented care plans. As they make

decisions, their focus leans toward doing, rather than on thinking and reflecting.

LNA findings of present study revealed that nurse interns assessed themselves as being not able to carryout time management skills. Those interns were not able to manage distractions, use time saving strategies, avoid doing others' work, or even refuse responsibility they cannot manage. They cannot finish most of things they start or being sensitive for others time. The fact is that those NIs' lack knowledge about each of how to manage their time, prioritize competing tasks in a way that best serves patients needs, respects the team, and maintains energy and focus throughout the shift. So they need pre-orientation program include educational materials on prober time management.

Smith & Crawford (2003)⁽²⁵⁾ supported present study results and found that novice nurses is delayed in patient care, due to their failure to administer in a timely manner, failure to recognize and failure to intervene in relation to patient care.

However most NGs lack the judgment, confidence, and experience to act decisively, until they fully develop their clinical judgment, they must follow the rules. If the rules don't cover a particular situation, they must rely on more experienced team members for advice and support. Further confusion may arise when new nurses are called to help teammates while operating within the multiple time demands of a shift.

Saintsing et al. (2011)⁽²⁶⁾ study about novice nurse's clinical decision-making and how to avoid errors support the present study results and found that the issues of time management and critical thinking are two items that are potentially dependent upon each other. Novice nurse is likely to make judgment errors regarding critical thinking related to real or perceived time constraints.

LNA results showed that NIs assessed themselves as being not able to carry out delegation skills. Those NIs do not trust others to carryout their duties and do not have the courage to take responsibility for their delegated skills. They cannot select and organize tasks to be delegated, cannot select appropriate person for delegation, or even maintain reasonable control for delegated tasks. Those NIs got low level of knowledge regarding delegation skills. **Ruff (2011)**⁽²⁷⁾ study about delegation skills: essential to the contemporary nurse supported the present study and found that ineffective delegation was cited by nursing staff as one reason for missed care.

LNA revealed that NIs assessed themselves as being not able to carry out priority setting skills, which matches their low level of knowledge regarding priority setting. Those nurse interns cannot

write pros and cons for options or priorities tasks according to goals. In addition, they cannot do each of put clear goals and objectives, organize their thoughts or even take time to plan their activities. Most probably those NIs also lack experience of early detection and intervention for priority cases which nursing care can prevent its deterioration.

Immediate post implementation of the present study well design pre-internship orientation educational program, NIs changed significantly from being with low to be with high level of knowledge on clinical skills standards procedures; related to collect patient's data, cardio-respiratory care, medication administration, elimination care, prevent immobility complications, wound care, diagnostic procedures and safe practice and infection control; statistically significantly improved post orientation program. As well as, an improvement in management knowledge level showed for interpersonal, organizational, priority setting and delegation skills. But still some NIs had low knowledge level regarding clinical and management skills, whom need to study their learned materials.

The findings of the present study is also supported by **Roussel et al. (2006)**⁽²⁸⁾ study on management and leadership for nurse administrators asserted that educational program helped nurses in keeping up to data with new concepts, increasing knowledge and competences, modifying their attitudes and developing their abilities to deal with patients and problems.

The present study researcher's followed up NIs during their first three months of internship year to direct them for proper skill acquisition and socialization. The researcher arranged that NIs attend simple orientation at the first three morning shifts at the beginning of each rotation, to help them to be familiar with the unit environment, procedures and staff this was carried out in cooperation with the HN of each unit. Each NI was assigned to care for one patient with experienced RN for first week. The TUH HNs and number of RNs were invited to attend with NIs their the pre-internship orientation program implemented by the researcher, to be sure for refreshing their knowledge and to facilitate the future interns' socialization and support.

The researcher intended to help NIs socialization process by which they will acquire the specialized knowledge, skills, values, norms and interests needed to perform their roles acceptably. Beside the facilitation for professional socialization process that integrates the cognitive and affective domains of professional performance governs their behavior. The researcher believes the importance that learning process takes place in a social environment, so that the learning occurs through interaction with

their actual work units. Really the attention and the clinical supervision which NIs received at the follow up period of internship orientation program enhanced their sense of confidence and improve their competence. As well as improved their performance to role, responsibilities and patients care quality.

Data analysis of follow up observation sheet three months post orientation program revealed significant improvement of NIs' ability to carryout all clinical skills, in comparison with their learning needs self assessment pre-orientation program. Researcher's observation also revealed that majority of nurse interns can by themselves assess vital signs, state of comfort, collect samples, provide cardio-respiratory care, apply mechanical restrain and provide newborn care. As well as NIs can by themselves prevent immobility complications, provide wound care, assess neurological condition and carryout safe practice and infection control measures.

According to the researcher's observation three months post orientation program nurse interns' ability to carryout management skills of interpersonal, organizational, priority setting and delegation skills were significantly improved, in comparison with their learning needs self assessment pre-orientation program. So nurse interns should attend immediate pre-internship orientation programs to help them to refresh their knowledge, memorize the basic clinical and management standards needed to be applied during their internship year. Learning needs assessment is very important to meet nurse interns' individual needs and to address the skills required for specific practice areas. Beside their knowledge must be tested to identify their actual educational needs. Designing, implementing the orientation program and using different teaching methods helped to evoke nurse interns maximum benefits and to overcome their individual differences. Really present experience assured that at the beginning of the internship year NIs need to be supported, encouraged and mentored by the faculty staff members until they became confident in their clinical and management practice.

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