



Review Article

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Impact of Instruction Booklet About Woman Rights in Reproductive Health on Developing Nursing Students Knowledge and Misconceptions

Nadra Mohamed Ibraheim¹*, Ebtesam EL Sayed Shama¹, Naglaa Ghida², Eman El-Sherbeny³ and Amal Roshdi Ahmed⁴

¹Department of Maternity, Obstetrics and Gynecology Nursing, Ismailia Technical Institute of Health, Egypt

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*Corresponding author: Nadra Mohamed Ibraheim, Department of Maternity, Obstetrics and Gynecology Nursing, Ismailia Technical Institute of Health, Egypt

Abstract

Background: Reproductive health is an important component of general health and central feature of human development. It is a reflection of health during childhood, and crucial during adolescence and adulthood, sets the stage for health beyond the reproductive years for both women and men, and affects the health of the next generation.

Aim: to evaluate the impact of Instruction booklet about woman rights in reproductive health on developing nursing students knowledge and misconcepts. A quasi-experimental research design. This study was conducted at technical institute of Nursing at Ismailia governorate Purposive sample of 200 female nursing students from 2nd academic year in previous mentioned setting were included in study sample (2019-2020). Tools of data collection: Structured Interviewing questionnaire and Likert scale.

Results: A statistically significant improvement was observed among studied sample knowledge and their attitude post intervention compared to pre intervention, Conclusion: it was concluded that there was a highly statistically significant improvement in nursing students' knowledge and concept after application of guideline about woman rights in reproductive health. Recommendation: the present study an Instruction booklet was suggested to be replicated in another setting and on another sampling.

Keywords: Reproductive rights; Attitude; Instruction booklet; Sexual and reproductive health and rights (SRHR)

Introduction

Reproductive health is an important component of general health and central feature of human development. It is a reflection of health during childhood, and crucial during adolescence and adulthood, sets the stage for health beyond the reproductive years for both women and men, and affects the health of the next generation. The health of newborn is largely a function of women health and nutrition status and her access to health care [1].

Sexual and reproductive health and rights (SRHR) encompass the right of all individuals to make decisions about sexual activity and reproduction free from discrimination, coercion and violence, and to achieve the highest attainable standard of sexual health. Access to sexual and reproductive health and rights services allows individuals to choose whether, when and with whom to engage in sexual activity; to choose whether and when to have children; and to have access to the information and means to make those choices [2]. Additionally, reproductive rights embrace certain human rights that are already recognized in national laws, international human rights documents. It also includes the right of all to make decisions concerning reproduction free of discrimination, coercion and violence as expressed in human rights documents. In the exercise of this right, they should take into account the needs of their living and future children and their responsibilities towards the community [3].

²Department of Community& Family Health Nursing, Faculty of Nursing- Port said University, Egypt

³Department of Community Health Nursing, Faculty of Nursing, Beni- Suef University, Egypt

Department of Maternal& newborn Health Nursing, Faculty of Nursing, Beni- Suef University, Egypt

Moreover, Reproductive and sexual rights were first officially recognized at the International Conference on Population and Development in Cairo in 1994. The Program of Action of International Conference on Population and Development recognized that meeting the reproductive health needs is a vital requirement for human and social development. Protecting and promoting the reproductive and sexual rights of the youth and empowering them to make informed choices is a key to wellbeing [4]. Nurses plays an important role for reproductive health rights in a variety of settings, including communities, schools, and public health and acute care clinics, which affords them many opportunities to improve adolescents' sexual and reproductive health and reduce the rates of unplanned pregnancy and sexually transmitted infections. To ensure that adolescents have access to sexual and reproductive health care which includes both preventive counseling and treatment in all nursing practice sites, nurses need to gain the knowledge and hone the skills required to deliver evidence-based counseling and services to adolescents and parents [5].

Aim

To evaluate the impact of Instruction booklet about woman rights in reproductive health on developing nursing students knowledge and Misconcepts.

Methods

A Quasi experimental design. This study was conducted at health technical institute of Nursing at Ismailia governorate. On all female nursing student were selected purposively from 2nd academic year in previous mentioned setting during (2019-2020 academic year), and was eligible included in the study, their age (19-20 years). The female nursing student with SRHR included in pretest (n=200) while female nursing student who have specific health education in the posttest (n=200). They sample. Pilot study: The pilot study was conducted on 10% of the total sample (20 students), to test the applicability and clarity of the tools. Pilot study was excluded from study sample.

Data collection tools

Two tools were used: Tool (I) Structured interviewing questionnaire schedule sheet. It was designed in an Arabic language in forms of close and open ended questions, it composed of two parts:

Part (1): socio- demographic characteristics: such as age, marital status, religious...etc.).

Part (2): assessment of knowledge about reproductive health and rights, it consisted of eight items:-

- a) $\ \ \, \text{Female genital mutilation, it consisted of three items.}$
- b) Marriage and premarital counseling, it consisted of three items.
- c) Breast feeding, it included three items such as (definition of breast feeding, benefits of breast feeding for mother and

benefits of breast feeding for child)

- d) Family planning it included three items such as (definition of family planning, types of family planning methods... ect).
- e) Sexually transmitted disease it included three items (concept of sexually transmitted disease, methods of transmission of sexually transmitted disease,etc.).
- g) Each item was scored as 2 for correct knowledge and 1 for incorrect knowledge
 - h) Scoring system:
- i) Satisfactory knowledge when total knowledge scores more than 60%.
- j) Unsatisfactory knowledge when total knowledge scores less than 60%

Validity and reliability

The version of tools was done by a panel of three expertise of professors of the obstetrics and women health at faculty of nursing to measure the validity of tools.

Field work: To fulfill the aim of the study, the following phases were adopted. Interviewing and assessment phase, designing phase, implementation phase and evaluation phase. These phases were carried out at the beginning of first semester of the academic year from beginning of October 2019 to end of December 2019 covered three months. The researcher attended three days/week, (Sunday, Tuesday& Thursday) from 9.00Am to 12pm. Interviewing study sample to collect socio-demographic characteristics, baseline data about students' knowledge regarding reproductive health and rights through asking questions about reproductive health and rights. At the beginning of interview the researcher greeted the students, introduced herself to each group of students included in the study, explained the purpose of the study and provided the student with all information about the study (purpose, duration, and activities) and take oral consent. Then15 student was interviewed and their knowledge and misconcepts was assessed through different tools as pretest. Data were collected by the researcher through administration of the tools to each student.

Designing phase: Based on results obtained from pre intervention assessment phase of study sample that contains students' knowledge and misconcepts regarding reproductive health and rights. The guideline was developed, sessions number and its contents, different methods of teaching, and instructional media were determined accordingly to study sample.

Implementation phase: The researcher began with implementation of pretest to identify students' knowledge and

misconcept about reproductive health and rights. The students were divided into small groups (total number of groups were 10 groups) each group consists of 20 students. Eight sessions were implemented for each group separately. The students obtain the basic knowledge and correct their misconcept about reproductive health and rights. At the beginning of first session an orientation to the guideline and purpose, duration of each session 45 minute .Starting time was determined according to student's suitable time. At the beginning of the first session the student were oriented with the guideline contents. Each group of students was informed about the time of the next sessions at the end of the session.

The subsequent session started by feedback about the previous session and the objectives of the new session. Different methods of teaching were used such as discussion, demonstration. Instructional media included all content of educational booklet regarding reproductive health and rights which constructed by the researchers in a simple Arabic language after reviewing the related literatures. At the end of each session, student's questions were discussed to correct any misunderstanding. The total time for all sessions for each group for about six hours and the total

time for all sessions for all groups for about sixteen hours.

Ethical Considerations: Participants were informed of the voluntary nature or study and the aim was explained. Students were informed about their rights to refuse or withdraw at any time without giving reason and with no untoward consequences. the study maneuver could not entail any harmful effects on participants.

Administrative design: The necessary official permissions for data collection were obtained from the dean of health technical institute of nursing. The title and objectives of study were illustrated as well as the main data item to be covered.

Statistical design: Data was verified prior to computerized entry. The Statistical Package for Social Sciences (SPSS version 20.0) was used for that purpose, followed by data tabulation and analysis. Descriptive statistics were applied (e.g., mean, standard deviation, frequency and percentages). Test of significance (chisquare, fisher exact test), Pearson correlation coefficients were used. A significant level value was considered when p<0.05. And a highly significant level value was considered when p<0.001.

Result

Table 1: Distribution of the studied sample according to total level of knowledge regarding reproductive health and rights (n=200).

Phases	Pre	e interven	tion n=2	200	Immed	iate post n=20		ention		after 2		post inte	rvention	
Items of knowledge		rect vledge	Inco know		Corr knowl			rrect ledge	X ₁ ² / /FET (P1 value)	Correct edg			ct knowl- dge	X ₁ ² //FET (P1 value)
Items of knowledge	No	%	No	%	No	%	No	%	•	No	%	No	%	
Daniel de ation la calaba	56	28	144	72	200	100	0		169.35	184	92	16	8	130.951
Reproductive healths	56	28	144	/2	200	100	U	0	0.000**	184	92	16	8	0.000**
Reproductive health	79	39.5	424	60 F	168	0.4	32	1.0	62.9	156	78	44	22	45.943
facilities	/9	39.5	121	60.5	168	84	32	16	0.000**	156	/8	44	22	0.000**
Female genital mu-	44	22	156	78	178	89	22	11	135.281	164	82	36	18	106.244
thation									0.000**					0.000**
premarital examina-	94	47	106	53	176	88	24	12	59.1885	164	82	36	18	38.185
tion &counseling	94	47	106	53	1/6	88	24	12	0.000**	164	82	36	18	0.000**
Methods of family	100	50	100	50.0	196	98	4	2	95.272	188	94	12	6	75.955
									0.000**					0.000**
Breast feeding	132	66	68	34	192	96	8	4	45.958	192	96	8	4	44.16
Breast recaing	152	00	00	31	1,72	,,,			0.000**	1,72	70	0		0.000**
Sexually transmitted	44	22	156	78	176	88	24	12	59.185	164	82	36	18	70.882
diseases	11		150	,,,	1,0	00	21	12	0.000**		02	30	10	0.000**
rights of woman in	79	39.5	121	60.5	200	100	0	0	135.183	198	99	2	1	130.93
reproductive health	79	37.3	121	60.5	200	100	U		0.000**	170	,,,		1	0.000**

A statistical significant difference (P \leq 0.05)

 X_1^2 (P₄ value)= Pre and post intervention

A highly statistical significant difference (P ≤ 0.001)

 X_2^2 (P₂ – value)= Pre and after 4weeks

FET: Fisher Exact Test

(Table 1): revealed that, the studied sample had incorrect knowledge about reproductive health and rights pre intervention and also had correct total knowledge immediate post intervention and 8 weeks post intervention after implementation of Instruction booklet and there was highly statistically significant improvement of total knowledge score post intervention after implementation of Instruction booklet ($P \le 0.001$). (Table 2) illustrated that,

more than two thirds of studied sample had incorrect concept about female genital mutation during pre-intervention and also had highly statistically significant improvement of their concept immediate after implementation of Instruction booklet and after 2 months' post intervention compared to pre intervention ($P \le 0.001$).

Table 2: Distribution of the studied sample according to misconception about female genital mutation (n=200).

Phases	Pre in	terven	tion n	=200	Immediate post intervention n=200					after 2	months' p n=2	ntion		
	Ye	s	N	0	Yes		No		(P1 value)	Yes		No		X_2^2 (P2 – value)
Items	No.	%	No.	%	No.	%	No.	%		No.	%	No.	%	
Female genital mutation is important for girl future life	142	71	58	29	28	14	172	86	100.781 0.000**	36	18	164	82	86.315 0.000**
Female genital mutation pre- vent inflamma- tion & cancer of female genital tract	120	60	80	40	32	16	168	84	61.226 0.000**	30	15	170	85	65.422 0.000**
Female genital mutation not affect female attitude	112	56	88	44	46	23	154	77	34.722 0.000**	40	20	160	80	40.986 0.000**

 X_1^2 (P₁ value)= Pre and post intervention

(Table 3) shows that, more than half of studied sample had incorrect concept about menstruation during pre-intervention and also had highly statistically significant improvement of concepts about menstruation immediate after implementation of Instruction booklet and after 2 months' post intervention compared to pre intervention ($P \le 0.001$). (Table 4) demonstrates

that, more than half of studied sample had incorrect concept about marriage during pre-intervention and also had highly statistically significant improvement of concepts regarding to marriage immediate after implementation of Instruction booklet and after 2 months' post intervention compared to pre intervention (P \leq 0.001).

Table 3: Distribution of the studied sample according to misconception about menstruation (n=200).

	Pre		rventi 200	on	Immed	•	st intervo 200	ention		after	2 mont			
Phases	Ye	es	N	0	Υe	es	No	0	<i>X</i> ₁ ² (P1 value)	Y	es	N	0	X_2^2 (P2 – value)
Items	No.	%	No.	%	No.	%	No.	%		No.	%	No.	%	
Avoid taking									33.729					41.257
shower during menstruation	86	43	114	57	26	13	174	87	0.000**	20	10	180	90	0.000**
Taking analgesic									67.593					72.086
during men- struation affect female fertility	120	60	80	40	28	14	172	86	0.000**	26	13	174	87	0.000**
Avoid cutting									31.362					37.48
hair during menstruation	100	50	100	50	44	22	156	78	0.000**	38	19	162	81	0.000**

 X_2^2 (P₂ – value)= Pre and after 4 weeks

^{**}A highly statistical significant difference (P ≤ 0.001)

Avoid cutting nail during	116	58	84	42	68	34	132	66	17.391	56	28	144	72	26.281
menstruation	110	30	04	72	00	34	132	00	0.000**	30	20	177	72	0.000**
Not important									77.9					84.57
to seek medical advice	140	70	60	30	38	19	162	81	0.000**	34	17	166	83	0.000**

 X_1^2 (P₁ value)= Pre and post intervention

Table 4: Distribution of the studied sample according to misconception about marriage (n=200).

Phases	Pre intervention n=200 Yes No		Immediate post intervention n=200					after 2 months' post intervention n=200						
¥4	Ye	s	N	0	Ye	es .	No	0	X_1^2 (P1 value)	Ye	es	No)	X_2^2 (P2 - value)
Items	No.	%	No.	%	No.	%	No.	%		No.	%	No. %		
Advice for early				F0					35.994					46.105
marriage before twenty	100	50	100	50	36	18	164	82	0.000**	30	15	170	85	0.000**
Advice for relative	106	F2	0.4	47	50	25	150	75	25.073	32	16	168	84	45.624
marriage	106	53	94	4/	50	25	150	/5	0.000**	32	16	108	84	0.000**
Premarital									11.946					16.897
counseling not important	80	40	120	60	44	22	156	78	0.000**	38	19	162	81	0.000**

 X_1^2 (P₁ value)= Pre and post intervention

(Table 5) clarified that, there was highly statistical significant improvement of their concept about pregnancy immediate after implementation of Instruction booklet and after 2 months' post intervention compared to pre intervention ($P \le 0.001$). (Table 6) indicated that, less than half of studied sample had incorrect

concept about labor during pre-intervention and also had highly statistically significant improvement of concepts about labor immediate after implementation of Instruction booklet and after 2 months' post intervention compared to pre intervention ($P \le 0.001$).

Table 5: Distribution of the studied sample according to misconception about pregnancy (n=200).

Phases	Pre	interve	ntion n=	200	Imme	•	st interver 200	ntion			r 2 mo	•		(DO V. L.)	
Thomas	Y	es	No)	Ye	es	No)	(P1 value)	Y	es.	N	0	(P2-Value)	
Items	No.	%	No.	%	No.	%	No.	%		No.	%	No.	%		
Delayed pregnancy	78	39	122	61	56	28	144	72	4.103	F0	25	150	7.5	7.849	
consider infertility	/8	39	122	61	56	28	144	/2	0.051*	50	25	150	75	0.004**	
Not important to follow up pregnancy	146	73	54	27	44	22	156	78	76.933	40	20	160	80	82.182	
after cessation of menstruation									0.000**					0.000**	
Recommended									28.832					37.006	
vaccination not important	112	56	88	44	50	25	150	75	0.000**	40	20	160	80	0.000**	
don't taking space									4.812					8.919	
between pregnan- cies	60	30	140	70	36	18	164	82	0.016*	32	16	168	84	0.003**	

 X_1^2 (P₁ value)= Pre and immediate post intervention

 X_2^2 (P₂ – value)= Pre and after 3 weeks

^{**}A highly statistical significant difference (P ≤ 0.001)

 X_2^2 (P₂ – value)= Pre and after 3 weeks

^{**}A highly statistical significant difference (P ≤ 0.001)

 X_2^2 (P₂ – value)= Pre and after 3 weeks

^{*}A statistical significant difference (P ≤ 0.05)

^{**}A highly statistical significant difference (P \leq 0.001)

Table 6: Distribution of the studied sample according to misconception about labor (n=150).

Phases	Pr		rventio 200	n	Imme	•	st interve 200	ntion			After :		w2 (pa w l			
Items	Yes		No		Yes		No		<i>X</i> ₁ ² (P1-Value)	Ye	es	No		<i>X</i> ² (P2-Value)		
items	No.	%	No.	%	No.	%	No.	%		No	%	No.	%			
Home									29.929					37.1986		
delivery is best than hospital delivery	96	48	104	52	36	18	164	82	0.000**	30	15	170	85	0.000**		
Perineal									6.187					8.151		
care after delivery start down ward to upward.	86	43	114	57	60	30	140	70	0.015*	54	27	146	73	0.005**		
Avoid tak-									19.144					23.934		
ing shower one week after labor	80	40	120	60	34	17	166	83	0.000**		0.000**		15	170	85	0.000**

 X_1^2 (P₁ value)= Pre and post intervention

(Table 7) illustrated that, there were highly statistically significant improvement of misconception about breast feeding immediate after implementation of Instruction booklet and after 2 months' post intervention compared to pre intervention (P \leq 0.001) (Figure 1&2): showed that, most of studied sample 87.0

% were had correct concept about reproductive health during immediate post intervention. Also 98.0% of them were had correct concept three weeks post intervention compared to pre intervention.

Table 7: Distribution of the studied sample according to misconception about breast feeding (n=200).

Phases	Pı	Pre intervention n=200			Immediate post intervention n=200					after 2 months' post intervention n=200					
•.	Ye	es	No	O	Y	'es	N	lo	X ₁ ² (P1 value)	Ye	es	No		X_2^2 (P2 - value)	
Items	No.	%	No.	%	No.	%	No. %			No. %		No. %			
Breast feeding not	88	4.4	112	56	4.4	22	150	78	14.96	40	20	160	80	20.1853	
important	88	44	112	56	44	22	156	/8	0.000**	40	20	160	80	0.000**	
Donat Condition and									6.357					7.95	
Breast feeding not decrease weight	68	34	132	66	44	22	156	78	0.021*	40	20	160	80	0.004**	
breast feeding									97.154					119.836	
used as contra- ceptive	164	82	36	18	38	25.3	112	74.7	0.000**	44	22	156	78	0.000**	

 X_1^2 (P₁ value)= Pre and post intervention

Discussion

Health systems and individuals can take a number of actions to safeguard reproductive health. These actions differ from many other health interventions in that the motivation for their use is not necessarily limited to better health and involves cultural and societal norms. Irrespective of these additional considerations, these interventions have important health implications that affect the widespread implementation and use of the services [6].

 X_2^2 (P₂ - value) = Pre and after 3 weeks

^{*}A statistical significant difference (P ≤ 0.05)

^{**}A highly statistical significant difference (P ≤ 0.001)

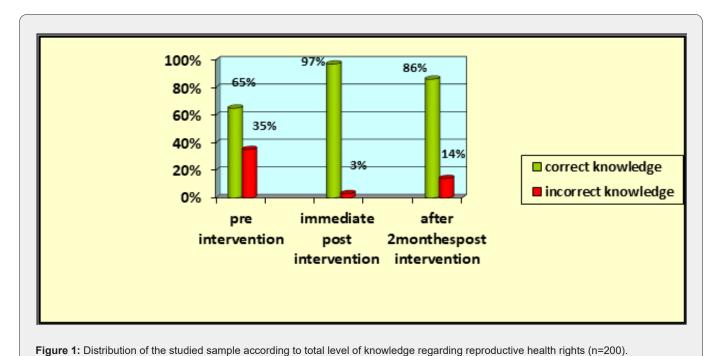
 X_2^2 (P₂ – value)= Pre and after 3 weeks

^{*}A statistical significant difference (P ≤ 0.05)

^{**}A highly statistical significant difference (P ≤ 0.001)

Providing adolescents with the means to attain high standards of health, in ways that ensure equality, nondiscrimination, privacy, and confidentiality, is an integral part of respecting and protecting globally accepted human rights. Ensuring that adolescents have access to sexual and reproductive health services requires extending the availability, accessibility, acceptability, and quality of the information and the services. Helping adolescents make a healthy transition to adulthood involves programs to protect them from unintended pregnancy, sexually transmitted infections

(STIs), and poor reproductive health outcomes [7]. The current study aimed to assess the knowledge and concepts of adolescent females regarding reproductive health rights by assessing the level of knowledge of adolescent females about reproductive health, detecting their needs, designing and implementing a Instruction booklet about women reproductive health rights according of adolescent females needs, evaluating the Impact of Instruction booklet about Woman Rights in Reproductive Health on developing Nursing Students Knowledge and Misconcept.



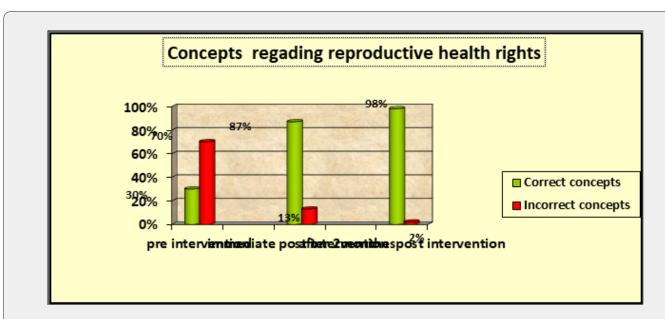


Figure 2: Distribution of studied sample according to misconception regarding reproductive health rights during different phases of assessment (n=200).

Table 8: Relation between total of knowledge level regarding reproductive health and rights and socio-demographic characteristics throughout different phases of the study (n=200).

	I	Pre inte	rventi	on			Immediate post inter- vention							ifter 2 st inte				
Variable	kn e	rrect owl- dge =70	know	rrect dedge 130	X2/ FET	P Value	Correct knowl- edge n= 194		Incorrect knowl- edge n=6		X2/ FET	P Value	kno ed	rect owl- ge 174	Incorrect knowl- edge n=26		X2/FET	P Value
	No	%	No	%			No	%	No	%			No	%	No	%		
Age (years)																		
18-19	18	25.7	26	20	1.187	0.5	42	22	2	20	0.19	0.909	31	18	10	40	5.357	0.069
20or above	52	74.3	104	80			152	88	4	80			143	82	16	60		
Marital status of student mothers					10.922	0.001**					1.385	0.239					0.062	0.72
Married	56	80	125	96			178	92	2	20			160	92	23	90		
Divorced	14	20	5	4			16	8	4	80			14	8	3	10		
Resi- dence																		
Urban	54	77	69	53	6.982	0.007**	122	63	6	100	6.519	0.011*	118	68	5	20	16.624	0.000**
Rural	16	23	61	47			72	37	0	0			56	32	21	80		
Mother' educa- tion																		
Basic ed- ucation	2	3	39	30			39	20	3	50	2.484 0.289		41	23.6	0	0		0.000**
Second- ary edu- cation	41	58.5	86	66.1	43.509	0.000**	122	63	3	50		0.289	127	73	0	0	121.154	
Univer- sity or above	27	38.5	5	3.9			33	17	0	0			6	3.4	26	100		

^{*}Statistical significant difference (P ≤ 0.05)

Menopause is one of the most critical stages of women's life which because of its symptoms and effects might significantly create health problems for women. Menopause is a normal physiological process in all women's life. Menopause signals the end of the reproductive years and is associated with signs of estrogen deficiency with a considerable impact on women's health-related quality of life (North American Menopause Society, 2012). Health is the fundamental right of every human being and improvement of educational methods is a public duty. Considering the limited research in this field, a programmed approach to learning is evident in various cycles of life including menopause as the most critical period of women's life. Lack of knowledge and access to relevant information is the major challenge faced by menopausal women intensified by contradictory information (Yazdkhasti et al., 2012).

The present study aimed to evaluate the effect of a designed educational program on menopausal symptoms. This aim is achieved through; assessing women's knowledge regarding menopausal symptoms,

assessing women's health practices toward menopausal symptoms, Designing, implementing and evaluating the outcome of the educational program on Menopausal symptoms. The findings of the current study will be discussed under five main parts namely: characteristics of both study and control groups, knowledge of both groups regarding menopause, practices towards menopausal symptoms, comparison between both study and control groups regarding menopausal symptoms before and three months after program.

Regarding to sociodemographic characteristics of adolescent

^{**} highly statistical significant difference ((P ≤ 0.001)

females. The findings of the present study reveals the mean age group19.63±0.47 years old and single. This finding agreement with, Kaur et al. [8] who studied descriptive study to assess the knowledge regarding reproductive health care among B.Sc. nursing 1st year students at SGRD College of nursing, Amritsar, India, who found that the majority of subject were in the age group of 19- 20 years.

Also ,results consistence with Govender, et al. [9] who studied Knowledge, attitudes and peer influences related to pregnancy, sexual and reproductive health among adolescents using maternal health services in Ugu, found that most of the participants (97.5%, n = 318) were unemployed. Our finding disagrees with Laar [10] who studied reproductive rights and options available to women infected with HIV in Ghana: perspectives of service providers from three Ghanaian health facilities, who found in her study majority of studied sample were married and Most of the students' had incorrect knowledge about services of reproductive health relation to component of reproductive health services of childhood, reproductive health services of teenage, and reproductive health services of menopause in pre intervention. After Instruction booklet implementation there were improved knowledge and highly statistical difference in both immediate post intervention and eight weeks post intervention than pre intervention. This mean be due to inadequate educative program about reproductive health services. These findings were agreement with Ibrahim [11], who found that most of the adolescents' girl know the major service of reproductive health and have improve in knowledge after application of guideline. Similarly, this finding was agreement with Hlatshwayo [12], who studied Exploring adolescents' perceptions regarding youth-friendly sexual and reproductive health services in a selected Community Health Centre (CHC) in uMgungundlovu District. He reported that the majority of adolescents still lack awareness and autonomy to access sexual reproductive health related information and services.

As regards to nursing students' knowledge about objectives of premarital counseling. The present study reveals that all of studied sample had correct knowledge and highly statistically significant improvement in knowledge regarding premarital counseling at immediate post intervention and eight weeks post intervention. This may be due to minor role of peer in giving knowledge about health services that provide premarital counseling. These finding were agreeing with Ibrahim, et al. [13] who found in their study about Premarital Counseling program: knowledge, attitude, and satisfaction of attendees of governmental outpatient clinics in Jeddah that there was highly statistically significant improvement in knowledge regarding premarital counseling at different two phases of assessment after program implementation rather than students' knowledge were poor during pretest.

Regarding nursing students' knowledge about of female genital mutilation the finding of the present study illustrates that the majority of nursing students' had incorrect knowledge pre intervention and had improvement immediate post intervention and 8 weeks post intervention. These findings supported by

Kroon and Binsalamah [14], They revealed that most of studied sample were had inadequate knowledge regarding female genital mutilation and its complication during pretest while there were highly statistical significant differences between knowledge mean scores pre intervention, immediately post intervention and three weeks post intervention. While finding disagrees with Lee & Strong [15], they reported that women with FGM during labor were at higher risk of obstetrical complications than women without FGM. This may be due to inadequate health education regarding FGM to students' and minor role of university staff toward students' heath education.

According to the nursing students' knowledge regarding age at marriage the present study pointed out that only about half of the students had answer that 18 years old was the appropriate age of marriage. This finding was supported by Ahmed, [16], who found that the majority of the commercial and industrial school's students' gave wrong answer regarding appropriate age of marriage. Also disagree with Kaphle [17], who found that most of studied sample were aware about the right marriage age of ≥ 20 years.

Regarding to nursing student's knowledge related to sexually transmitted diseases, the present study reveals that the majority of studied sample had incorrect knowledge during pre-intervention and were had improvement of nursing students' knowledge immediately post intervention and 8 weeks post intervention rather than pre intervention.

These findings come in agreement with Fuadi [18], study aimed to examine and link learning culture-based human reproductive system in order to improve understanding of reproduction and prevent reproductive disease. This finding disagree with Abajobir and Seme [1] they studied reproductive health knowledge and services utilization among rural adolescents in east Gojjam zone, Ethiopia: a community-based cross-sectional study, Ethiopia, they revealed that two-third of the adolescents had ever heard about sexually transmitted diseases and mode of transmitions.

In relation to nursing female's students' knowledge about concept of reproductive rights the present study finding were reveals that the majority of studied sample had incorrect knowledge pre-intervention and had improvement of knowledge immediate post intervention and after 8 weeks post intervention. Also agree with Panday, et al. [19], who studied the contribution of female community health volunteers FCHVs) to maternity care in Nepal and Laar [10] who studied reproductive rights and options available to women infected with HIV in Ghana who reported that least of them know about women's right. On the other hand, finding were disagree with Dida, et al. [20], they studied Reproductive health services utilization and its associated factors among Madawalabu University Students. They mentioned that majority of the respondents were had correct meaning of reproductive rights.

Regarding to nursing student's knowledge about woman right to life, freedom, security and privacy the present study revealed

that most of studied sample were had incorrect knowledge pre-intervention and had improvement of knowledge during immediate post intervention and eight weeks post intervention. This finding was disagree with Shailaja, [21], who studied the importance of patient privacy during a clinical examination of individuals regarding their personal health information being used or disclosed without their consent. Also finding disagree with Center for Disease Control and Prevention [22], they reported that the rights to life and health are central to the enjoyment of all other human rights, and fulfillment of this right requires governments to take steps to reduce maternal mortality and increase life expectancy.

Regarding to students' nurse knowledge about woman right to avoid exposure to false believes as female genital mutation the present study reveals that majority of studied sample had incorrect knowledge during pre-intervention intervention and had improvement of knowledge during immediate post intervention and 8 weeks post intervention. This finding in similarly with Dixon et al. [23], they studied Tackling female genital mutilation in the UK, they found that here are growing numbers of women living in the UK who have experienced female genital mutilation/ cutting. Evidence is needed to understand how best to meet their health-care needs and to shape culturally appropriate. Also agree with Gebre et al. [24] who found that female genital mutilation is a traditional harmful practice that violates the rights and dignity of women and girls. Regarding to nursing student's knowledge about woman right to health the present study shows that majority of studied sample had incorrect knowledge during preintervention and had improvement of knowledge in immediate post intervention and 8 weeks post intervention. This finding was agreed with Hallila, & Al-Halabi [25], they studied Saudi female university employee self-determination in their own healthrelated issues and revealed that most of the participants did not fully understand the health rights of women in Saudi Arabia.

Regarding to nursing student's knowledge about woman right to marriage and found a family the present study revealed that more than two thirds of studied sample had incorrect knowledge during pre-intervention and had improvement of knowledge during immediate post intervention and three weeks post intervention. This finding disagree with Rashad, et al. [26] & Khosla [27], they reported that the majority of the study sample agrees that girls have the right to choose their prospective husband and marry. Similarly, this finding disagree with Germain, et al. [28], who found that most of the total respondents were aware about the right marriage age of ≥20 years.

Regarding to nursing student's knowledge about woman right to healthy and secure pregnancy the finding of the present study reveals that most of studied sample had incorrect knowledge during pre-intervention and had improvement of knowledge during immediate post intervention and 8 weeks post intervention.

This finding disagree with Kismödi, et al. [2], they mentioned that respect, protect and fulfill human rights in relation to maternal health, pregnancy and childbirth.

Regarding to nursing student's knowledge about woman right to family planning the present study revealed that most of studied sample had incorrect knowledge during pre-intervention and had improvement of knowledge during immediate post intervention and eight weeks post intervention. This may be due to students not aware about woman right to decide the number of children and spacing between pregnancies. This finding is in-accordance with Rashad, et al. [23], they reported that the majority of respondents were aware about their right to decide the number and spacing of their children. In relation to nursing student's knowledge about woman rights to non-discrimination the finding of the present study reveals that majority of studied sample had incorrect knowledge during pre-intervention and had improvement of knowledge during immediate post intervention and eight weeks post intervention. This change in knowledge may be due to application of guide line.

This finding consistent with Norton [29], they found that women should be equal to men and that both sexes should have equal rights to decide over their own sexuality. Finding disagree with Coker, et al. [30], has found that female-identified youth and sexual minorities are less. Regarding relation between studied nurses' general characteristics and mean score of studied nurses' knowledge related to women reproductive rights pre immediately post 8 weeks' post. No statistically significant difference was found. This finding disagrees with Cameron [31], who pointed out that there was a positive relation between knowledge of the studied students and their age.

In relation between nursing student's level of knowledge and mother education. The finding of the present reveals that there was highly statistically significant difference ($P \le 0.001$) between nursing student's level of knowledge and mother education. This finding agrees with Ibrahim, [11] who found positive relation between students' mother educational level and total knowledge. This finding agrees with DeBeaudrap [32], who found positive relation in their study about Disability and Access to Sexual and Reproductive Health Services in Cameroon: A Mediation Analysis of the Role of Socioeconomic Factors also, in the same line with Ajara & Shuaib [33], who study Knowledge and sociodemographic data among reproductive-age women (RAW) in Malete, Kwara State [34].

Conclusion

In the light of study findings, it was concluded that there was a highly statistically significant improvement in nursing students' knowledge and concept after application of Instruction booklet about woman rights in reproductive health. This supported the main hypothesis of the study.

In the light of study findings, the following recommendations can be suggested:

- a) Periodic awareness program for nursing students about reproductive health and right.
- b) Mass media sector is required to broad cast well designed messages related to reproductive rights to all community.
- c) Nusing education institutions should strengthen and upgrade the reproductive health rights and counseling components into their curricula.
 - d) Further studies

The study should be applied on parents to evaluate their knowledge regarding reproductive health and rights.

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