The Correlation between Giving Health Teaching Regarding Vulvovaginal Infectivity and Self Report of Symptoms with Faculty of Nursing, Kafrelsheikh University Students

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Abstract:

Background: Vulvovaginitis is an inflammation of external genitalia and it is standard as a major public medical problem that causes several problems for women at all ages. Aim: Was to assess the correlation between giving health teaching regarding vulvovaginal infectivity and self report of symptoms with Faculty of Nursing, Kafrelsheikh University students. Design: Descriptive- correlational design was used. Sample: A total of 700 adolescent girls were assigned from the Faculty of Nursing, Kafrelsheikh University, Egypt. Tools: Two tools were developed by the researcher 1.Self administered questionnaire sheet to collect data including demographic information about students, knowledge assessment questionnaire about vulvovaginal infectivity, assessment questionnaire about menstrual hygienic care and evaluating score for students' knowledge, 2. Self reporting tool that included counting the number of students complains regarding their self report of symptoms of vulvovaginal infectivity. Results: The mean age of students under study was17-21 years, their mean age was 18.380±0.8540years; 7.20% of them reported about symptoms of vulvoyaginal infection after teaching session, and 100.0% of them had unsatisfactory level of knowledge score related to vulvoyaginal infection during the first time of assessment(before teaching session) but after the teaching session was carried out the vast majority of students had satisfactory level of knowledge score during second, third assessment respectively. There was statistical significant relation between the level of knowledge (satisfactory or unsatisfactory level) and self report of vulvovaginal infection symptoms during the second assessment (p=0.010). Conclusion: There was statistical significance between the level of knowledge (satisfactory level) and self report symptoms of vulvovaginal infection during the second evaluation, cheesy white vaginal discharge and itching in the external genitalia were the most ordinary complains amid adolescent students who made self report. Recommendations: The present study suggested raising awareness among adolescent young girls principally at those early years in relation to their level of knowledge about vulvovaginal & how to report any deviation.

Key words: Vulvovaginal infection symptoms, self report, adolescent girls.

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I. Introduction

The issue of vaginal discharges (releases) is the most major grumble of females amid conceptive age gathering [1]. Vaginal releases from asignificant issue for some young women causing misery and tension influencing young woman's personal satisfaction. Some vaginal releases are typical and can contrast with age and with the estrogen level as in the menstrual cycle [2]. Vaginal discharges can be physiological or neurotic. Physiological release is ordinary and solid for women of reproductive age [3]. Obsessive vaginal release includes emissions which are joined by tingling, rash or soreness, steady expanded release, replication amid urination, white cumbersome release, and a release that is heavier and thicker than common and dim/white or greenish yellow discharge with a foul scent [4].

There are two fundamental sorts of vaginitis, infectively or non- infectively vaginitis. For non-infectively vaginitis, it is caused by various causes, for example, sensitivity to clothing, ladylike cleanliness items, and vaginal douches, spermicidal and business related presentation. Aggravationcan can be caused by tampons, clean napkins, underwear liners, hormonal causes as hypoestrogenism and iatrogenic causes [5,6]. While infectively vaginitis that records for 90% of instances of vaginal diseases at the conceptive age women and it is caused by at least one of the accompanying life forms: by Candida albicants C. albicants as a yeast, Bacterial vaginitis BV caused by Gardnerellavaginalis G. vaginalis as microscopic organisms, and Trichomonas Vaginalis T. vaginalis as protozoa [7].

As indicated by [8]. Women with unusual vaginal releases don't look for treatment unless it meddles with every day routine work; the reason is disgrace and not feeling good to see male doctors. Then again young

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women assumed that the wellbeing suppliers are not amicable and there is an absence of protection. Young women seek the assistance customary healers or pharmacists as they are all more agreeable and amenable, and observe classification and security.

Shockingly in our nation there is the culture of quietness, consequently the greater part of the young women delay seeking assistance. Neurotic release might be overlooked by somewhere while typical and physiological release were considered as anomalous by some nauseous young women [1]. Poor access to human services, poor information and some of conceptive tract infectivitys being asymptomatic are in charge of expanded reproductive tract diseases predominance and its intricacies among women [9].

Wellbeing hormones are enormous for wellbeing and prosperity of people. Menstrual period is a period when female are relied upon to modify clean practices. Numerous components are known to influence the practices. Age, culture and mindfulness influence the practices. Age is the most affecting component, as it impacted the decisions for menstrual sponges and different practices, for example, individual cleanliness, showering and washing vulva and changing of cushions [10].

Juya, Kandpa and Semwal [11] concluded that there is solid connection between conceptive tract infectivity and poor menstrual cleanliness. The hazard factors for vaginal diseases incorporate pregnancy and poor cleanliness either perineal or menstrual. Absence of hand-washing propensity, not utilizing suitable clothing and not honing genital cleanliness are portrayed as states of poor cleanliness. The sorts of the spongy utilized during menstruation and cleaning resulting in utilizing the bathroom are basic variables for genital diseases [12].

Health attendants and nurses assume a vital part in perceiving woman griping of unusual vaginal emissions, help with anticipating gynecologic diseases and in guaranteeing that the patients react to the proposing clinical examinations and pharmaceuticals and in discovering terrible cleanliness propensities and deciding the correct practices. As a part of their educative and controlling positions, attendants take obligations concerning conceptive soundness of the young inside the field of preventive medication [13].

By and large, reproductive tract infectivity seen as a 'noiseless' pandemic and is one of the real general medical issues. In addition, females with self report manifestations of conceptive grimness don't look for treatment because of existing taboos and restraints in regards to reproductive wellbeing. Untreated infectivity can prompt wellbeing outcomes, as well as females may encounter social results as far as the enthusiastic trouble identified with gynecological grimness. Vaginal emissions constitute an impressive issue for some, women causing distress, uneasiness influencing women' personal satisfaction and expending extensive assets [14]. The declaration of vaginal release is common particularly in South East Asia where about a fourth of every single grown-up girl report this grumbling. Larger part of women endures the issues discreetly without searching for counsel and treatment. Gynecological disarranges have agrand effect on female reproductive capacity, emotional well-being and capacity to work and to achieve routine physical workout.

Significant of the study:

The commonness of vaginal diseases among Egyptian women going to gynecology centers at Elmanial University Hospital, Cairo University was fifty eight point eight percent. (Vulvovaginal Candidiasis) was analyzed in one hundred and fifty six women (fourty one percent). Bacterial Vaginosis was distinguished in thirty nine women (ten point two percent), twenty three women (6.0%) had (Trichomonas Vaginalis) and six women (1.60%) had blended disease. In Egypt, the dominant part of studies which were led about vulvovaginal infectivity included marital women as it were. Scattered examinations were done about vulvovaginal infectivity among young people [15]. Along these lines, the present study was to evaluate the knowledge about vulvovaginal infectivity among young women, and concentrate its impact on self report symptoms.

Subjects and Methods:

Aim of the Study:

The aim of the current study was to assess the correlation between giving health teaching regarding vulvovaginal infectivity and self report of symptoms with Faculty of Nursing, Kafrelsheikh University students.

Research question:

Is there a correlation between giving of health teaching about vulvovaginal infectivity and self report symptoms among adolescents' girls?

Study design: Descriptive- correlational design was adopted. A descriptive correlation research design was used in the study which defines as any scientific process begins with description, based on observation, of an event while a correlational study is a research method that describes and predicts how variables are naturally related in the real world, without any attempt by the researcher to alter them or assign causation between them.

Setting: Data were collected from the Faculty of Nursing, Kafrelsheikh University, Egypt.

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Inclusion criteria:

- Faculty of Nursing, Kafrelsheikh University students
- -Unmarried adolescent females.
- -Age ranges from 17 to 21 years old.

Exclusion criteria:

- -Having never-ending sickness.
- -Getting any hormonal medicines or anti infective agents.

Sample size:

This randomized trial proposes to assess the correlation between giving health teaching regarding vulvovaginal infectivity and self report of symptoms, based on data obtained from previous study that assessed the relationship between providing health information about vulvovaginal infection and self-reporting of symptoms among adolescents and considering the level of significance = 5%, power of the study= 80%, in two-sided study.

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Formula of calculating sample size is n = [2(Z_{\alpha/2} + Z_{\beta})^2 \times p \; (1\text{-}p)]/(p1 \; \text{--} \; p2)^2
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Where:

n = sample size required in each group,

p = pooled proportion (proportion of event in group 1 + proportion of event in group 2)/2

p1-p2 = difference in proportion of events in two groups

 $Z_{\alpha/2}$: This depends on level of significance, for 5% this is 1.96

 Z_6 : This depends on power, for 80% this is 0.84

 $n = [2(1.96 + 0.84)^2 \times 0.958 (1-0.958)]/(0.03)^2 = 0.701$, and hence we enrolled 700 participants in the current study.

Sampling:

The total number of students in the Faculty of Nursing, Kafrelsheikh University was 1800 students. It contains four levels, the first level had 300 female students, the second level had 350 female students, the third level had 305 female students and the fourth level had 302 female students; the total number of female students is 1257. The first level had 20 clinical group students (containing 300 female students), the second level had 22 clinical group students (containing 350 female students), the third level had 12 clinical group students (containing 305 female students) and the fourth level had 14clinical group students (containing 302 female students). A convenience sample which consisted of adolescent female students from Faculty of Nursing, Kafrelsheikh University were enrolled for the study. The information was gathered three months from first of October, 2018 to end of December, 2018.

Recruitment technique:

Female adolescent students (n=700) were assigned for group teaching. Every female adolescent student who fit the incorporation criteria was enlisted for the study. Students were selected on random handing over through selecting the female students from the clinical groups from each level (first, second, third & fourth) according to the inclusion criteria.

Tools of data collection: The researchers were developed it after reviewing relevant literature. It was written in English language. Questionnaire was distributed and piloted on volunteer students out of the main sampling of the study and any necessary modifications were done. Two instruments were built by the researcher, These were:

A. Self administered questionnaire:

It entails four main parts:

- 1) Demographic information. It was concerned with information identified with the young women's age, learning level of mothers, place of living, and number of family.
- 2) Assessment questionnaire about menstrual hygienic care. It included (seven) questions about hygienic care of menstruation. The assessment was done three times. The first one was carried out before conducting the teaching session, the second one was conducted immediately after session, and the third one was carried out after two weeks.
- 3) Knowledge assessment questionnaire. It included inquiries regarding vulvovaginal infectivity, for instance, kinds of infection, side effects, causes, and methods for avoiding of infectivity. It included (eighteen) questions. (seven) questions were connected to vulvovaginal health care, (six) questions were about types and symptoms of infection, and (six) questions were about factors that cause infection. From these (six) questions there were (four) open-ended questions that are not scored.

- 4) Evaluation score for understudies' knowledge: The female understudies' information was figured for everything as follows: Correct answer was scored (two points), while don't know was scored (zero point) and the wrong answer was scored (one point). The aggregate score for all inquiries identified with all questions was (twenty eight) point which represents 100.0% and ordered into two levels as follows: Satisfactory more than or equal sixty percent of the aggregate score which represent sixteen point eight points or more and unsatisfactory less than sixty percent of the aggregate score [15].
- **B. Self reporting tool:** That incorporates list of female's problems in regards to their self declaration of manifestations, and recognize the most well-known symptoms that young females complain of.

Administrative design:

Ethical approval was granted from the Ethics Committee of the Faculty of Nursing. Official permission was obtained from the Dean of Faculty of Nursing, Kafrelsheikh University.

Ethical Considerations:

An informed consent was acquired from the understudies after explaining the point of view of the study. There was a certified consent about the confidentiality of the acquired data. All students have an equal chance to be involved in the study and to protect the students' rights included in the study group, a copy from the health information was specified and given to them. The aim of the study was obviously explained to each participant.

Validity:

Created tools were submitted to five specialists in the field of maternity nursing to test its legitimacy. Alterations were done according the suggestions of specialists on tools' transparency, suitability, and fulfillment.

Pilot Study:

A pilot study was directed on 10% (70 students) of the example to assess the attainability and clearness of the tools and decide the required time to finish the tools. Requested modifications joined. The pilot group was excluded from the study sample.

Field Work:

The information was gathered within a time of three months from the first of February, 2018 to the first of May, 2018 for three days/week and these incorporate four stages as take after:

1-Preparatory phase: The tools of the study were arranged by the researcher after reviewing the associated literature.

In this stage, prime agreement was acquired from the research ethical committee at Faculty of Nursing-Kafrelsheik University. The researcher work for three days/aweek ,five hours per day to acquire the study sample. Every single youthful young girl who fit the incorporation criteria was enlisted for the study. The example was chosen by irregular and random task (through choosing the female students from the clinical groups of each level).

2- Implementation phase: The researcher acquainted herself with the students and clarified the objective behind the study so as to get their written acceptance to take an interest in the study. Each group received self administered questionnaire to evaluate their knowledge concerning to vulvovaginal infectivity and sanitary care through menstrual cycle for ten minutes then instruction session about vulvovaginal infection and hygienic care of their external genitalia was conducted. This session's period don't not exceed than twenty minutes during which the researcher provided health information to the adolescent girls about vulvovaginal infectivity and sanitary care of their outer genitalia .The researcher also gave wellbeing information to the young girls about vulvovaginal infectivity, accentuating on the significance of sterile care of outer genitalia, and approaching to abstain from getting infectivity in these delicate organs. At the end of the session the researcher guaranteed the adolescent females' understudies' guidelines. The session was introduced in clear and concise shape. Additionally, every student receives a leaflet about vulvovaginal infectivity to facilitate the instruction of the point.

3-Evaluation phase:

Along with this stage the adolescent girls got self-administered questionnaire about vulvovaginal infectivity and sanitary care to evaluate their knowledge maintenance. It was completed two times; the first was done instantly after the session, the second time after two weeks from the teaching session.

4-Follow up phase:

Observing of self reported manifestations was done along with the post evaluation questionnaire that was done at regular intervals.

Outcome of the study:

The outcome was assessed in this study to determine the correlation between giving health teaching regarding vulvovaginal infectivity and self report of symptoms with Faculty of Nursing, Kafrelsheikh University students.

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Limitations of the study:

The study group was too small to small to show the effectiveness of the health teaching session. Also excessively, there was not enough time for the study and certain students refused to contribute to that study due to their embracement.

Statistical Analysis: Correlation of numerical factors between the distinctive time focuses was finished utilizing Freidman's test with Wilcoxon marked rank test for combined (coordinated) examples as posthoc different 2-gathering examinations. Connection between different factors was finished utilizing Spearman rank relationship condition. P esteems under 0.05 were considered factually huge. Every single statistical count was finished utilizing computer PC program IBM SPSS (Statistical Package for the Social Science; IBM Corp, Armonk, NY, USA) discharge 22 for Microsoft Windows.

II. Results

Results of the study were presented into seven parts which were: 1. Sociodemographic characteristics; 2. Menstrual hygiene; 3. Knowledge related to vulvovaginal infection; 4. Self reporting symptoms of vulvovaginal discomfort; 5. Association between menstrual hygienic care used and self reporting of symptoms; 6. Satisfactory level of knowledge and self reporting of symptoms; 7. Association between educational stage of mother and self reporting of symptoms.

The consequences of the present study announced that, the age range was 17-21 years of age, with a mean of 18.380 ± 0.8540 years. Fifty-six-point six percent of the students are were 18 years old. On the other hand, 13.40 had a university education for their mothers, as indicated in table (1).

In connection to hygiene during menstruation: Ninety-four percent of the adolescent girls used sanitary napkins while six percent used cloth during menstruation throughout the first assessment. While after the teaching session was carried out, most of adolescent girls used sanitary napkins during their menstruation, as the results reported during the second and third time of assessment (99.40%, and ninety nine point seven percent respectively). The vast majority of young women change pads during menstruation all along day less than 3 times amid the first and second time of evaluation (seventy two point six and forty six point three percent respectively). Concerning having shower amid monthly cycle, particularly amid the first run through of evaluation, sixty six percent of members had ashower, and 34.00% of them didn't have ashower. When requesting causes behind denying having shower amid their menses, the findings demonstrated that thirty four percent of the youthful young women had certain causes as fear of loss of hair, expanding the pain of the period, delivering disruption of monthly cycle and creating cold attack (65.0%, 15.80%, 15.00% and 4.20% separately), as shown in table (2).

Regarding to the young adult women: (100.0%) had unsatisfactory level of knowledge about vulvovaginal infectivity amid the primary evaluation related to its components, causes, methods of transmission, threat factors, and methods for avoidance. After the showing session was done most of them by far, had satisfactory level of information as the outcomes demonstrated amid the second and third evaluation (92.20%, 100.0% individually). The outcomes demonstrated that there were significant differences between the level of information amid the three times of evaluation p=0.0001, table (3) and fig (1).

Related to the symptoms of vulvovaginal infectivity: Seven point two percent of the students reported about symptoms of vulvovaginal infectivity, 6.60 % of the young adult women made self reporting about proximity of symptoms of vulvovaginal infectivity at the first assessment and 0.60 at the second time of assessment and every young woman who made self report a concentration of viscous white vaginal release, itching in outer genital organ and pain during urination had 100.0% at second assessment, and 80.0% had reddishness &exfoliation at second assessment, table(4).

concerning to table (5): There was a statistical significant relationship between kind of pad or cushion utilized amid female cycle and self reporting of symptoms of vulvovaginal infection amid the first time of evaluation (p=.0.009) was accounted for. There was statistical significant relationship between's recurrence of changing cushions every day and self reporting of side effects of vulvovaginal infectivity amid the first time of evaluation (p=0.019).

Table (6) illustrated that, there is a measurably statistical significant connection between the level of mother education and self reporting of manifestations of vulvovaginal infectivity amid the first and the second time of evaluation (p=0.001 and p=0.010 separately).

Table (7) interpreted that there was considerable positive statistical association between the level of knowledge (satisfactory level) and the self report of symptoms of vulvovaginal infectivity throughout the second evaluation (P=0.010).

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Table (1) Distribution of adolescent students related to their demographic characteristics.

Items	Frequency	%	
	(n=700)		
Students age range	(11 / 00)	<u> </u>	
17 years	76	10.90	
18 years	396	56.60	
19 years	85	24.30	
20 years	170	7.10	
21 years	8	1.10	
Mean = 18.380	<u>.</u>		
Educational stage of mothers			
Cannot read and write	126	18.00	
Principal stage	102	14.60	
Preparatory stage	160	22.90	
Secondary stage	218	31.10	
University stage	94	13.40	
Habitation	·		
Rural area	466	66.60	
Urban area	234	33.40	
Family member	·		
Three members	6	0.90	
Four members	102	14.90	
Five members	272	38.90	
Six members	178	25.40	
Seven members	108	15.40	
More than seven	32	4.60	
members			
Mean = 5.570			•

Table(2) Allocation of students regarding their menstrual hygiene.

Adolescent hygiene during menstruation	ing menstruation teaching session after the teaching session		t immediately session	weeks from the teachin session		
Items	Frequency	%	Frequency	%	Frequency	%
1- Type of pad used duri	ng menses	l .			1	
Healthy pads	658	94.00	696	99.40	698	99.70
Fabric material	42	6.00	4	0.60	2	0.30
2-Changing pads during	menstruation all alon	g day				
Four times per day	42	6.0	66	9.40	74	10.50
Three times per day	150	21.40	310	44.30	346	49.40
Less than three times per day	508	72.60	324	46.30	280	40.0
3-How do you get rid of p	padding?	L	l	L	I.	I
Lay it in toilet	136	19.40	0	0	0	0
Lay it in basket	88	12.60	696	99.40	700	100.00
following covering						
Lay it in basket with no covering	476	68.00	4	0.60	0	0
4-Do you have shower du	ring menstruation?				•	
Yes	462	66.00	612	87.40	622	88.90
5-Why don't you have a	shower?					
Fright of loss of hair	156	65.00	38	43.20	36	46.20
Increasing pain	38	15.80	24	27.30	24	30.80
It produces interruption	36	15.00	18	20.50	10	12.80
of menstruation						
It produces cold attack	10	4.20	8	9.10	8	10.30
6-Substances used in was	hing external genitali	ia				
Only water	584	84.10	6	0.90	8	1.10
Soap and water	110	15.90	694	99.10	692	98.90

Table (3) Allocation of students relating their knowledge level about vulvovaginal infectivity.

Items	Satisfacto	ory	Unsatisfactory		X ²	P
	Freque	%	Frequency	%		
	ncy				935.4710	0.0001*
First assessment before teaching	0	0.0	700	100.0		
session						
Second assessment immediately	646	92.20	54	7.70		

after the teaching session				
Third assessment after two weeks	700	100.0	0.0	0.0
from the teaching session				

^{*}Statistically significance

Figure (1)Distribution of students relating their knowledge level about vulvovaginal infectivity.

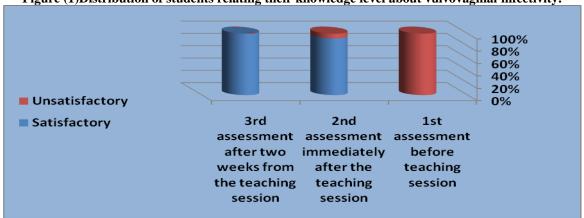


Table (4) Distribution of students regarding their self reporting of vulvovaginal infectivity symptoms.

Items	First time imme the teaching	Second time after two weeks from the teaching session		
	Frequency	%	Frequency	%
Self report of symptoms of vulvovaginal info	ectivity			
Yes	46	6.60	4	0.60
Symptoms of vulvovaginal infectivity	<u>.</u>			
Cheesy white release.				
Yes	168	100.00	10	100.00
Itching sensation	<u>.</u>			
Yes	158	94.00	10	100.00
Feeling of burning				
Yes	14	8.30	10	100.00
Exfoliation and reddishness	<u>.</u>			
Yes	20	11.90	10	80.00

Table (5) Association between menstrual hygienic care used and self reporting of symptoms.

Self reporting						
	First time immediatel	y after the teaching	Second time after two weeks from the teaching			
Hygiene during	sessi	on	session			
menstruation	R	P	R	P		
Type of pad usage	-0.1400	0.009*	0.0200	0.7080		
Pads numeral / day	-0.1250	0.019*	-0.0730	0.1730		
Shower having	-0.0490	0.365	-0.0040	0.9440		

Table(6) Association between educational stage of mother and self reporting of symptoms.

Table(6) Association between educational stage of mother and self reporting of symptoms.						
Self reporting						
		mediately after	Second time after two weeks			
Item	the teaching session		from the teaching session			
	R	P	R	P		
Educational stage of mother	1.690	0.001*	0.1370	0.010*		

(*) Statistically significant

Table (7): Correlation between satisfactory level of knowledge and self reporting of symptoms.

Self reporting							
Knowledge level	First time immediately after the teaching session		Second time after two weeks from the teaching session				
	R	P	R	P			
Second assessment	0.1370	0.010*	-	-			
immediately after the							

teaching session			
Third assessment	-	<u>(</u> f)	∉)
after two weeks from the			
teaching session			

(¥) This related to those students had satisfactory knowledge level

III. Discussion

The consequences of the present study summarized that, the age extent was 17-21 years, with a mean of 18.380 ± 0.8540 years. Fifty-six-point six percent of the students in the age of 18 years, while thirteen point four percent had a university education for their mothers. Ninety-four percent of the adolescent girls used sanitary napkins and six percent used cloth during menstruation during the first assessment. While after the teaching session was carried out, most of adolescent girls used sanitary napkins during their menstruation. As the results reported during the second and third time of assessment (ninety nine point four, and ninety nine point seven respectively). All the young adult women (one hundred percent) had high level of knowledge about vulvovaginal infectivity amid the primary evaluation with regard to its composes, causes, methods of transmission, danger factors, and methods for avoidance action. Seven point two percent of them reported about symptoms of vulvovaginal infection, six point six percent of the young adult women made self reporting about nearness of indications of vulvovaginal disease at the first assessment and 0.60 at the second time of assessment. There is a statistical significant relationship between the kind of pad or cushion utilized amid female cycle and self reporting of symptoms of vulvovaginal infectivity amid the first time of evaluation (p=.0.009) was accounted for. There was statistical significant positive correlation between the level of knowledge (satisfactory level) and the self report of symptoms of vulvovaginal infectivity during the second assessment.

The aim of the study was to assess the correlation between giving health teaching regarding vulvovaginal infectivity and the self report of symptoms with Faculty of Nursing, Kafrelsheikh University students. In order to answer the research question which was: Is there a correlation between giving of health teaching about vulvovaginal infection and the self report symptoms among adolescents' girls? The discussion of the findings will be presented in order to answer that question.

However young adult age is a peak time of wellbeing. Young adult gets moderately little consideration or community venture. Absence of proper self intellectual hones that create along with youth may have wellbeing results that proceed through adulthood and have an effect on the concluding outcome of women' wellbeing. The medical services supplier particularly nurture assume a key part in evaluating and giving helpful wellbeing data. Vulvovaginitis is the most widely recognized one in the gynecology outpatient center, paying little intellect to the age range of the patient. In adolescence and young females it shows sixty percent of gynecological changes [16].

The present study comes about covered that most, by far, of the young women dependably utilize dispensable clean napkins contrasted with just six percent who utilized material. These outcomes might be happen because of the impact of publicizing broad communications about utilizing dispensable cushions or pads which young women utilize and for the most part they discovered better ingestion, implied for single utilize.

These results were similar to the findings of Diksha and Sapkota (2013) [17] who consider findings about a study directed in Nepal about information and works on with relation to female cycle among school going young people of country Nepal. They illustrated that the greater part of members were utilizing sterile cushion amid feminine cycle. Additionally, this finding isn't in simultaneousness with different findings of Dasgupta and Sarkar (2008) [18] in India who completed a study on menstrual cleanliness. This study demonstrates that larger part of the young women favored fabric pieces as opposed to clean cushions as menstrual spongy. They noticed that need, high cost of expendable clean cushions and to some degree obliviousness deterred the examination populace from utilizing the menstrual sponges accessible in the market. Likewise, this finding wasn't in simultaneousness with different studies carried by Adika et al (2011) [19] in Nigeria who completed a study on recognition and conduct on the utilization of clean cushions amid feminine cycle among youthful school young women. They watched a poor discernment and conduct towards the utilization of clean cushions amid feminine cycle among youthful school young women. They noticed that absence of funding was in charge of non usage of sterile cushions.

The present study clarified that roughly three quarter of young women used to change their cushions for under three times each day. This outcome was in concurrence with different findings carried by Adika et al (2011) [19] in Nigeria who completed a study on recognition and conduct on the utilization of sterile cushions amid feminine cycle among school young women. They watched a poor discernment and conduct towards the utilization of clean cushions amid female cycles among school young women. This outcome does not concur with Hasanein and Diab (2015) [20] who led an investigation on 400.0 youthful young women in preparatory year at Al-Jouf University in Saudi Arabia. They revealed that the greater part of the members changed their cushions three to four times a day. The contrast between the previous findings may be related to the lack of financial support.

The present study concluded that around two third of the young women have ashower amid monthly cycle while whoever was left of them doesn't have shower. These outcomes might be happen because of the absence of information and doubts in regards to menstrual cleanliness on the basis that their educational modules did exclude wellbeing instruction about reproductive wellbeing including menstrual cleanliness. This outcome was in concurrence with El-Gilany et al (2005) [21] who led a study in Egypt. They found that abstaining from showering was generally basic amid feminine cycle, because of a conviction. It still normal in Mansoura on the grounds that the body is open amid feminine cycle and that an icy shower or shower may cause maintenance of blood while a hot shower may expand dying. This outcome comes in accordance with Paria et al (2013) [22] in India, who completed a cross-sectional investigation about menstrual cleanliness among youthful school understudies in an urban group of West Bengal. They found that most by far of the young women had day by day showers and the rest felt that washing ought to be limited in the initial two days of feminine cycle as showering builds the menstrual stream. The contrast between findings may be related to lack of health teaching and differences between cultures.

The outcomes of the present study demonstrated that after execution of the showing session there was change in cleanliness practice and propensities for young-adult women particularly amid feminine cycle with respect to expanding recurrence of evolving cushions, expanding number of young women who utilized sterile napkins instead of fabric pieces and expanding number of young women who have shows amid period. This finding is bolstered by Al-Kotb et al (2016)[23] who outlined and actualized an instructive program for avoidance action of genitourinary infectivity among female young people understudies in Ismailia Governorate and detailed that menstrual cleanliness and sterile practices identified with propensities enhanced after execution of the program.

Related to students' knowledge about vulvovaginal disease, it was clear from the outcomes that one hundred percent of the young adult women had inadmissible level of information and knowledge about vulvovaginal infectivity amid the primary appraisal, in regards to its composes, causes, methods of transmission, danger factors, and methods for aversion. This might be credited to deficient data picked up from their levels about this point. Lack of knowledge may be because of mothers themselves don't have data about reproductive issues and may not feel good in examining such issues as concluded by a few investigations [24]. Customarily in Egypt, youthful young women were segregated from data about conceptive organs and their issues until the season of their marriage. After the showing session was done by far most of the immature young women had agreeable level of knowledge as the outcomes demonstrated amid all evaluation. The previous findings were at the same line with the current study findings which interpreted that there was statistical significant difference between levels of knowledge throughout all three evaluations.

The current findings is bolstered by Ibrahim et al (2007) [25] who indicated that nearly or the majority of the study sample 99.600% in the pretest had inadmissible information about reproductive tract infection RTIs, however after the instructive program was done just 0.400% of the examination test had unacceptable knowledge in posttest This showed their insight level made strides. In addition, Rabiu et al (2010) and Mba et al (2007) [26, 27] detailed that the aggregate information of side effects and inconveniences of RTIs among understudies were poor. Including, that conceptive wellbeing instruction as a major aspect of the school and university educational programs will give compelling methods for enhancing learning and diminishing reproductive medical issues among young women in creating nations. The previous findings were contrasted with the current study findings which interpreted that there was statistical significant between levels of knowledge (satisfactory level) about symptoms of vulvovaginal infectivity throughout all evaluations while any difference was outstanding difference in the teaching session's methods.

Concerning self reporting symptoms of vulvovaginal infectivity the consequences of the momentum think about covered that every single youthful young student who made self report griped of concentrate of firm white vaginal release, also most by far of them had tingling in outer genital organ, and low rate had shedding upper thighs and pain in micturition. In a similar line Khedr et al (2015)[28] found that the greater part of the understudies whined from strange vaginal emissions (fifty three point four percent). The larger part of the understudies with vaginal emission had white discharge. In addition, in excess of sixty six percent of them had tingling in outside genital organ and alow rate had redness and agony in urine as basic indications related to vaginal release. Additionally, in a similar line Patel et al(2005) and Chaudhary et al (2012) [29,30] summarized higher level of vaginal release in youthful single female age gathering. While the predominance rate of vaginal release was twenty four point six percent among Indian ladies and low in unwedded ladies (4.900%) and the most common shade of the release was white (ninety seven percent) trailed by yellow (2.9500%). Furthermore, the related symptoms were tingling in genital area, suffering in bring down mid-region and tension amid micturition. And added that, there was statistical significant positive correlation between level of knowledge (satisfactory level) and self reporting of symptoms of vulvovaginal infectivity and menstrual hygiene during times of assessment which nearly in accordance with the present study. As well as there was statistical significant positive correlation between self reporting and educational level of mothers. The previous findings

were not quite in accordance with the current study findings while any difference was an outstanding difference in the cultures as well as health teaching methods.

IV. Conclusion

The current study concluded that there was statistical significant association between levels of knowledge (satisfactory or unsatisfactory level) and self reporting of symptoms of vulvovaginal infectivity during the second evaluation, cheesy white vaginal discharge and itching in the external genital organs were the most frequent complains amid students who made self report. As indicated by the outcome, the aim and the research question of the current study, these study results achieved the study aim and answered the study question.

V. Recommendations

In view of the findings of this study, the accompanying is recommended: Raising the part of university wellbeing medical caretaker for early identification of that kind of distress and others among young women particularly at the beginning period of adolescence. Menstrual cleanliness, reproductive tract illness, self concern and care practices ought to be incorporated into the educational modules of university training. A additionally, considerations are required in this subject with making examination to recognize the reasons for unusual vaginal discharge among understudies of adolescents.

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