Bulletin of Environment, Pharmacology and Life Sciences

Bull. Env. Pharmacol. Life Sci., Vol 12 [12] November 2023: 04-09 ©2023 Academy for Environment and Life Sciences, India Online ISSN 2277-1808

Journal's URL:http://www.bepls.com

CODEN: BEPLAD

ORIGNAL ARTICLE



Effectiveness of Structure Teaching Program on Knowledge and Practice Regarding Menstrual Hygiene among Adolescent Girls

Asu Vasava*, Roma Patel, Anjali Ganvit, Mansi Darji, Krishna Patel, Kruti Patel and Lisa Patel
Parul Institute of Nursing, Parul University, Vadodara
*Email ID: asuvasava97@gmail.com

ABSTRACT

Maintaining proper menstrual hygiene is essential for females as it is a natural process that starts during adolescence. Poor menstrual hygiene practices can lead to physiological problems such as infections. Therefore, it is important to spread awareness about menstrual hygiene and educate females about menstrual hygiene. Objectives of the study to assess the level of knowledge and practice, evaluate the effectiveness of STP and find out the association of level of knowledge and practice of menstrual hygiene with selected social demographic variable among adolescent girls. A quasi-experimental research design was chosen for this study. By using non probability convenient sampling technique a total of 180 samples were included for the study. Pre and post test was conducted by self-structure questionnaire. The data analysis was done by using descriptive and inferential statistics. The study findings revealed that the participants had 9.4% adequate, 77.8% moderate, and 12.8% inadequate knowledge before the intervention. After the intervention, 38.9% adequate 59.4% moderate and only 1.7% had inadequate knowledge. Prior to the intervention, the practice score was 6.7% poor, 75.5% adequate, and 17.8% good. After the intervention, the score was 9.4% poor, 53.9% average and 36.7% good. The results indicate that the intervention had a positive impact on the participants' level of knowledge and practice as well. There was a statistically significant difference between pre and post-test knowledge and practice scores regarding menstrual hygiene among adolescent girls after giving structured teaching program.

Keywords: Effectiveness, Knowledge, Practice, Menstrual hygiene, Adolescent Girls

Received 14.06.2023 Revised 30.08.2023 Accepted 24.09.2023

INTRODUCTION

Menstruation is generally considered as unclean in India. Social prohibition and strong bondage with the taboos and traditional beliefs during Menstruation and hesitation of parents not discussing the related issues openly to their adolescence girl that led to poor hygiene practices. These practices results in harbouring of micro-organisms that increases susceptibility to genito-urinary infections. [1] By recognizing the importance of promotion of menstruation hygiene, government of India started a scheme of making available subsidized sanitary napkins to adolescent girls in rural part of India since August 2011. Hence this study was conducted, among adolescent girls regarding there menstruation hygiene and related personal hygiene practices and helps them to prevent the gynaecological infections and serious consequences in their future. [2]

MATERIAL AND METHODS

Quasi Experimental study design was adopted in the study. The present study was undertaken among the 180 adolescent school girls from 2 Primary Schools, Waghodia, Gujarat. Non probability convenient sampling technique was used to select adolescence girls.

Instruments

For the data collection, the researcher used self-structured knowledge questionnaire and practice checklist. Socio demographic section includes socio demographic variables such as age, class, religion, type of family, education of mother, number of siblings, availability of toilet facilities at home, age at 1st menarche, reaction at 1st menarche, using material during menstruation and how many times suffer from irregular periods. This pre-designed, pre-tested and structured questionnaire consisted of 20 self-administered multiple choice questions included topics relating to Anatomy and physiology of female reproductive system, menstrual cycle, types of devices used during menstruation, disposal method of materials used during menstruation, hygiene maintained and complications. Practice Checklist consisted of 20 items about their

Practice regarding Menstrual Hygiene. At the end of the structure teaching program, after collection of the questionnaire from the students, all their queries were answered satisfactorily by the research workers.

RESULT

 $Table \ 1: Frequency \ and \ percentage \ distribution \ of \ demographic \ variables \ of \ Adolescents \ Girls \ n=180$

Demographic Variables	Categories	Frequency	Percentage		
		(f)	(%)		
	13 Year	67	37.2		
	14 Year	100	55.6		
Age in Year	15 Year	13	7.2		
	16 Year				
	7th Std	48	26.7		
Class	8th Std	129	71.7		
Glass	9th Std	03	1.7		
	Hindu	118	65.6		
Religion	Muslim	55	30.6		
Religion					
	Christian	7	3.9		
	Others				
	Nuclear	79	43.9		
Types of Family	Joint	95	52.8		
	Extended	6	3.3		
	No formal education	52	28.9		
	Primary education	110	61.1		
Education of Mother	Secondary education	18	10.0		
	Graduation & above				
	Post graduation				
	1	64	35.6		
Number of Siblings	2	56	31.1		
rumber of biblings	3	53	29.4		
	4	7	3.9		
Toilet facilities	Private	115	63.9		
available at home			25.0		
avaliable at nome	Open (P. 14)	45			
	General/Public	20	11.1		
	9-12 Year	29	16.1		
Age at first menarche	12-14 Year	105	58.3		
	14-16 Year	29	16.1		
	Not Yet	17	9.4		
How do you get the	Family members	90	50.0		
information about	Friends	64	35.6		
menstruation for first	Mass media	22	12.2		
time	Health workers	4	2.2		
How was your reaction	Scared	39	21.7		
to first menstruation	Discomfort	74	41.1		
	Usual	67	37.2		
What do you use during	Clothes	68	37.8		
menstruation	Sanitary pads	106	58.9		
mensu uativn	Menstrual cups	5	2.8		
	*				
	Others	1	0.6		
Have you ever suffered	Rarely	74	41.1		
from irregular periods	Never	77	42.8		
	Often	27	15.0		
	Always	02	1.1		

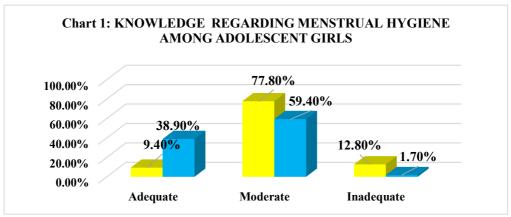


Chart 1 represents the results of a statistical analysis on the level of knowledge on menstrual hygiene in pre and post-test. Overall, the results indicate that the intervention had a positive impact on the participants' level of knowledge.

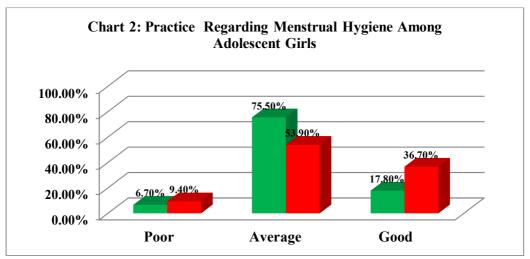


Chart 2 presents the results of a statistical analysis on the level of practice of a particular group of individuals before and after an intervention. Overall, the results indicate that the intervention had a positive impact on the participants' level of practice.

Table 2: Association between Knowledge Score Regarding Menstrual Hygiene among Adolescents Girls with Selected Demographic Data

n=180

Sr.	Demographic	Categories	Knowledge score			χ2	df	p value
	Variables		Inadequate	Moderate	adequate	value		_
1		13 Year	4	45	18			
		14 Year	3	69	28	1.713	4	0.788 ^{NS}
	Age in Year	15 Year	0	10	3			
		16 Year		-				
2		7 th Std	2	34	12			
	Class	8 th Std	5	89	35	2.505	4	0.644 ^{NS}
		9th Std	0	1	2			
3		Hindu	3	84	31			
	Religion	Muslim	4	36	15	3.434	4	0.488 ^{NS}
		Christian	0	4	3			
		Others		-				
4		Nuclear	0	59	20			
	Types of	Joint	7	62	26	8.390	4	0.078^{NS}
	Family	Extended	0	3	3			
5		No formal	2	34	16			
		education						
	Education of	Primary	5	81	24			
	Mother	education						

[Secondary	0	9	9	7.058	4	0.133 ^{NS}
		education						
		Graduation						
		& above						
		Post						
		graduation						
6		1	3	45	16			
	Number of	2	2	38	16	1.526	6	0.958 ^{NS}
	Siblings	3	2	35	16			
		4	0	6	1			
7	Toilet facilities	Private	5	81	29			
	available at	Open	0	28	17	7.281	4	0.122 ^{NS}
	home	General/Publi	2	15	3			
		С						
8		9-12 Year	1	23	5			
	Age at first	12-14 Year	3	69	33	7.219	6	0.301 ^{NS}
	menarche	14-16 Year	1	19	9			
		Not Yet	2	13	2			
9	How do you get	Family	1	66	23			
	the	members						
	information	Friends	6	36	22	13.63	6	0.034*
	about	Mass media	0	18	4	2		
	menstruation	Health	0	4	0			
	for first time	workers						
10	How was your	Scared	0	33	6			
	reaction to first	Discomfort	5	41	28	12.54	6	0.014*
	menstruation	Usual	2	50	15	2		
	**** . 1	G1 . 1			2.1			
11	What do you	Clothes	2	45	21		_	0.50.43
	use during	Sanitary pads	5	76	25	4.613	6	0.594 ^{NS}
	menstruation	Menstrual	0	2	3			
		cups				4		
		Others	0	1	0			
12	Have you ever	Rarely	1	49	24			
	suffered from	Never	5	54	18	4.737	6	0.578 ^{NS}
	irregular	Often	1	20	6	4		
	periods	Always	0	1	1			

From the above table 2 it was proved that there is no significant association between post-test knowledge scores and any of demographic variables but **source of information about menstruation** for the **first time and reaction to first menstruation** were significantly associated with the knowledge score regarding menstrual hygiene among adolescent girls.

Table 3: Association between Practice score regarding menstrual hygiene among adolescents' girls with selected demographic data (n=180)

Sr	Demographic	Categories	Practice score			χ2	df	p value
	Variables		Poor	Average	Good	value		•
1		13 Year	7	38	22			
		14 Year	10	50	40	2.974	4	0.562^{NS}
	Age in Year	15 Year	0	9	4			
		16 Year						
2		7 th Std	5	25	18			
	Class	8 th Std	12	71	46	1.411	4	0.842NS
		9 th Std	0	1	3			
3		Hindu	13	61	44			
	Religion	Muslim	3	32	20	1.856	4	0.762 ^{NS}
		Christian	1	4	2			
		Others						
4		Nuclear	4	39	36			
		Joint	13	53	29	8.648	4	0.071 ^{NS}

	Types of Family	Extended	0	5	1			
5	_	No formal education	8	27	17			
	Education of Mother	Primary education	9	62	39	6.308	4	0.177 ^{NS}
		Secondary education	0	8	10			
		Graduation & above						
		Post graduation						
6		1	4	29	31			
	Number of	2	5	26	25	16.917	6	0.010*
	Siblings	3	7	36	10			
		4	1	6	0			
7	Toilet facilities	Private	13	58	44			
	available at	Open	2	29	14	3.379	4	0.496 ^{NS}
	home	General/Public	2	10	8			
8		9-12 Year	3	12	14			
	Age at first	12-14 Year	9	58	38	5.538	6	0.477 ^{NS}
	menarche	14-16 Year	2	16	11			
		Not Yet	3	11	3			
9	How do you	Family	9	42	39			
	get the	members						
	information	Friends	5	43	16	8.589	6	0.198 ^{NS}
	about	Mass media	2	10	10			
	menstruation	Health	1	2	1			
	for first time	workers						
10	How was your	Scared	3	20	16			
	reaction to	Discomfort	7	36	31	3.302	4	0.509 ^{NS}
	first menstruation	Usual	7	41	19			
11	What do you	Clothes	5	39	24			
	use during	Sanitary pads	11	54	41	2.746	6	0.840 ^{NS}
	menstruation	Menstrual cups	1	3	1			
		Others	0	1	0			
12	Have you ever	Rarely	6	39	29			
	suffered from	Never	8	45	24	5.133	6	0.529 ^{NS}
	irregular	Often	3	13	11			
	periods	Always	0	0	2			

From the above table 3 it was proved that there is no significant association between post-test practice scores and any of demographic variable but having fewer siblings and private toilet facilities at home may contribute to better practice regarding menstrual hygiene among adolescent girls. The findings of this study could be useful for policymakers and healthcare professionals in developing interventions to improve menstrual hygiene practices among adolescent girls.

DISCUSSION

Menstruation is considered as normal physiologic process .Poor hygiene or unhealthy menstrual practices have been associated with serious ill health ranging from reproductive tract infection, urinary tract infections etc. The finding of the present study shows that most of the adolescent girls 77%, 12.8% and 9.45% had average, inadequate and adequate knowledge in pre-test. Whereas in post-test majority 59.4%, 38.9% and 1.7% adolescent girls gained moderate, adequate and inadequate knowledge after structured teaching programme. Practice score was prior to the intervention, 6.7%, 75.5% and 17.8% of the

participants had poor, average, and good practice. After the intervention, the percentage of participants with poor practice increased slightly to 9.4%, 53.9% and 36.7% while the percentage with poor, average and good practice.

Another study was supporting the findings revealed that 29% had adequate knowledge about menstrual hygiene, 71% had inadequate knowledge about menstrual hygiene. The data revealed on practice scores revealed that 19%, 69%, 12% samples had poor, fair and good score of practices regarding menstrual hygiene respectively. [4]

In the Present study, demographic variables, such as information source about menstruation for the first time and reaction to first menstruation, were significantly associated with the knowledge score and having fewer siblings and private toilet facilities at home may contribute to better practice regarding menstrual hygiene among adolescent girls. Another study was supporting the findings revealed that a statistically significant association between menstrual hygiene practices and demographic variables such as type of family and education of parents. [5]

CONCLUSION

The result of the present study shows that the structure teaching program was effective in improving the knowledge and practice of adolescent girls regarding menstrual hygiene. This study implied that creating awareness regarding menstrual hygiene will prevent the occurrence of reproductive tract infection among school girls and promote their health.

REFERENCES

- 1. Sonowal, P., & Talukdar, K. (2019). Menstrual hygiene knowledge and practices amongst adolescent girls in urban slums of Dibrugarh town-a cross sectional study. Galore Int. J. Health Sci. Res, 4, 44-51.
- 2. Devi, M. N. P. Assess of knowledge regarding menstrual hygiene among+ 2 science students in selected school of tangi, cut ack. International journal of advanced research in medical, nursing and health sciences, 19.
- 3. Reid G, Bruce AW. Urogenital infections in women: can probiotics help? Postgrad Med J. 2003; 79:428–32.
- 4. Mahajan, A., & Kaushal, K. (2017). A descriptive study to assess the knowledge and practice regarding menstrual hygiene among adolescent girls of Government School of Shimla, Himachal Pradesh. *CHRISMED Journal of Health and Research*, 4(2), 99.
- 5. A Study to Assess the Knowledge Regarding Menstrual Hygiene and Menstrual Hygiene Practices among Tribal adolescent Girls Residing In Selected Tribal Colonies Of Kannur District. Dr. Sisy Jose, Mrs. Sindhu. K, International Journal of Scientific Research: Volume 9 | Issue 12 | Dece
- 6. mber 2020.

CITATION OF THIS ARTICLE

Asu V, Roma P, Anjali G, Mansi D, Krishna P, Kruti P and Lisa P. Effectiveness of Structure Teaching Program on Knowledge and Practice Regarding Menstrual Hygiene among Adolescent Girls. Bull. Env. Pharmacol. Life Sci., Vol 12 [12] November 2023: 04-09