KNOWLEDGE REGARDING TEENAGE PREGNANCY AMONG ADOLESCENE GIRLS OF SECONDARY SCHOOL OF SINDHULI

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ABSTRACT

Teenage pregnancy is a global problem mostly occurring in poor and marginalized community. Teenage pregnancy increases when girls are denied the right to make decisions about their sexual and reproductive health and well-being. The objective of this study was to assess knowledge regarding teenage pregnancy among adolescence girls of secondary school. A descriptive cross sectional study was conducted with sample size of 100 by using probability stratified sampling technique. Pretested (r=0.74) structured and semi structured questionnaires (lowest 1 and highest score 34) were used as instrument for data collection. Data was collected through self administered technique. Data analysis was done from descriptive (mean, SD, frequency, percentage) and inferential (independent t test, ANOVA test) statistics using SPSS version 16. The findings of the study showed that respondents were age group 13-15 years (51%), hindu (91%), chhetri (36%), class 9 and 10 (41%) and family (71%) as a source of information. The overall mean knowledge score of respondents was 25.81±3.46 with the minimum score 14 and maximum score 34. The mean knowledge about contributing factors was 12.34±1.82, consequences were 6.69±1.82 and preventive measures were 6.78±1.17. The knowledge score regarding teenage pregnancy was significant in relation to age and education status of respondents where p value were 0.002, 0.000 respectively. It is concluded that respondents had adequate knowledge. According to findings, teenage pregnancy awareness program should be carried out in school and community through mass media to prevent teenage pregnancy in adolescence.

KEYWORDS

Knowledge, teenage pregnancy, adolescence girls

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INTRODUCTION

In USA (2017), teenagers aged 15-19years had birth rate of 194,377 which was lowered by 7% as compared to 2016 which was 209,809. The age of women at first birth has been increasing in Australia, the findings showed that 2.7% of all births in Australia were to teenage mothers. Most of who were aged 18 or 19 years (73.8%); less than 15 years (0.8%). In California, 32 of every 1,000 adolescent girls aged 15-19 have babies each year. Annually, for every 1,000 adolescent girls aged 15-19 living in California, there are 51 births to Latinas, 37 to African Americans, 12 to whites and 9 to Asians.³

Globally, an estimated 16 million adolescent girls (15-19years) give birth each year and babies born to those adolescent mothers account for nearly 11% of births worldwide, with 95% occurring in developing countries such as Nepal.⁴ According to the UNFPA report (2013b) about 19% of young women in developing countries become pregnant before the age of 18 years and 95% of the world's births to teenagers occur in developing countries.⁶

In developing countries 20% to 60% of teenage girl's pregnancies and birth are unwanted and unplanned. Teenage pregnancy can be prevented through abstaining from sex, using contraceptives such as pills and injections (65%), use of condoms (83%).⁸ A study done in Ghana which revealed that the impact of teenage pregnancy on both teens and society, The study showed that 76.7% believes it brings about school drop-out (76.7%), poverty (25.5%), child abuse (4.3%) and over dependency on the society (2.3%).¹²

In Nepal, 17% of adolescent women age 15-19 are already mothers with their first child. Teenage fertility is higher in rural areas (22%) than in urban areas (13%). By province, teenage pregnancy ranges from 10% in Province 3 and 27% in province 2. Teenage pregnancy decreases with increased education 33% of young women with no education have begun childbearing compared to 7% young women with SLC and above education.⁵ Pregnancy among adolescent women is associated with high risks to both the mother and her child. Pregnancy-related deaths are twice as common among women aged 15-19 years, than women aged in their twenties.⁷

MATERIALS AND METHODS

A descriptive cross-sectional study was conducted among 100 adolescent girls from age group 13 to 18 years of old. This study was done after receiving ethical approval letter from the Institutional Review Committee (IRC) of

Scheer Memorial Adventist Hospital, Banepa. This formal letter was submitted to Bhagwati Higher Secondary School and Siddhasthali Higher Secondary School Sindhuli for data collection. Formal permission was obtained from the concerned authority to collect the data. The sample size was selected from class 9, 10 and 12 from both higher secondary schools by using probability stratified sampling technique. The 50 samples were selected from each higher secondary school. There were no any students in class 11 because new class session was not started. Inclusion criteria were all female adolescent students who were willing to participate. Those who were absent during data collection was excluded in the study. The structured and semi structured questionnaire was developed as instrument which contains part I socio demographic information and part II knowledge regarding teenage pregnancy that contains contributing factors, consequences and preventing measures of teenage pregnancy. The validity of instrument was maintained by review the related literature. The reliability of instrument was maintained by pretesting instrument in 10% of the study population at Dhulikhel Higher Secondary School, Dhulikhel. The pretested questionnaire were splitted into two halves and analyzed (r=0.74). Before data collection, purpose of the study was explained to the respondents and written consent was obtained from each respondent. Data was collected through self administered technique by using pretested instrument. Data was collected 10 am to 4 pm from 2076/03/08 to 2076/04/08. During data collection, voluntary participation was done and confidentiality and anonymity was maintained. The collected data were checked for completeness of information, and then obtained data was classified, coded, entered, and analyzed by using SPSS-16. Descriptive statistics (mean, SD, frequency, percentage) and inferential (independent t test and ANOVA test) statistical test were used for statistical analysis.

RESULTS

Table 1 shows that respondents were age group 13-15 years (54%) and class 9 and 10 (41%) respectively. Other Demographic information was hindu (91%), chettri (36%), menarche age from 11-13 years (88%), single family type (73%) and family (71%) as source of information.

Table 2 shows that respondents had knowledge on contributing factors of teenage pregnancy were lack of future oriented goals (88%) and lack of parental supervision (20%). It indicates that more than 40% respondents had knowledge on contributing factors of teenage pregnancy.

Table 1: Socio-demographic information of respondents (n=100)				
Variables	n	%		
Age:				
13-15 years	54	54.0		
16-18 years	46	46.0		
Mean(SD) 15.5(1.40)	Max=18	Min=13		
Educational Status:				
Class 9	41	41.0		
Class 10	41	41.0		
Class 12	18	18.0		

Table 2: Knowledge on contributing factors of teenage pregnancy of respondents (n=10)

Variables	n	%				
Lack of future oriented goals	88	88.0				
Being victim of sexual abuse	86	86.0				
Sexual pressure from peer	68	68.0				
Unprotected sex	83	83.0				
Involving in night club	48	48.0				
Premarital sexual contact	32	32.0				
Sex curiosity	75	75.0				
Barrier to contraception	64	64.0				
Lack of sex education	81	81.0				
Early marriage	65	65.0				
Pressure to prove fertility	32	32.0				
Sexual desire	81	81.0				
Lack of parental supervision	20	20.0				
Low socio economic status	59	69.0				
Ignorance of pregnancy vulnerability	43	43.0				
Unprotected sex	93	93.0				
Family history of teenage pregnancy	92	92.0				
Broken family	85	85.0				
Age group 13-19 years	60	60.0				

Table 3 shows that respondents had knowledge as maternal consequences of teenage pregnancy were depression (97), and newborn consequences of teenage pregnancy were low birth weight baby (69%) and jaundice (20%).

Table 4 shows that respondents had knowledge as preventive measure of teenage pregnancy were Sex education (96%), legal age for marriage (85%), and sex abstinence (25%). It indicates that more than 55% respondents had knowledge on preventive measure of teenage pregnancy. Table 5 shows that the overall mean score of total respondents regarding teenage pregnancy is 25.81 and S.D (3.46) with maximum and minimum value 34 and 14 respectively. The mean (SD) for contribution factor 12.34(1.82), mean (SD) for consequences 6.69(1.82), mean (SD) for preventive measures 6.78(1.17).

Table 6 shows that the independent t-test for variable testing at 5% of level of significance. The overall mean knowledge score of respondents of age group 13-15years was 24.926±2.8141 and 16-18years was 26.848±3.875. The P value obtained in total knowledge score was 0.002 which is less than 0.5. Hence there is significance difference in knowledge regarding teenage pregnancy in relation to age.

Table 3: Knowledge on consequences ofteenage pregnancy of respondents (n=100)

Variables	n	%
Mother:		
Increase school dropout	51	51
Depression	97	97
Poverty	54	54
Anemia	71	71
Eclampsia	9	9
Preeclampsia	21	21
Pregnancy Induced Hypertention	84	84
Abortion	86	86
Newborn:		
Low birth weight baby	69	69
Congenital abnormalities	30	30
Premature baby	80	80
Jaundice	20	20

Table 4: Knowledge on preventive measure of teenage pregnancy of respondents (n=100)

Variables	n	%
Sex education for 13-18 years	96	96
Legal age for marriage age -29 years	85	85
Conception age for female-20 to 29 years	74	74
Peer counseling	85	85
Family counseling on appropriate age of marriage	91	91
Sex abstinence	25	25
Be faithful to partner	68	68
Use of condom	55	55
Contraceptive device after unsafe sex-Emergency contraceptive pills	99	99

Table 5: Overall total knowledge score of respondents regarding teenage pregnancy (n=100)				
Variables	Total possible score	Mean (SD)	Maximum	Minimum
Contribution factor	19	12.34 (1.82)	16	7
Consequences	12	6.69 (1.82)	9	3
Preventive Measures	9	6.78 (1.17)	9	4
Total score	40	25.81 (3.46)	34	14

Table 6: Association of knowledge regarding teenage pregnancy in relation to age (n=100)					
Variables	Possible correct score	13-15years (n=54) Mean±SD	16-18years (n=46) Mean±SD	P value (Independent test)	
Contributing factor	19	11.981±1.5356	12.761±2.0460	0.213	
Consequences	12	6.481±0.9856	6.935±1.4515	0.01	
Preventive Measures	9	6.463±1.1279	7.152±1.1347	0.625	
Overall Knowledge	40	24.926±2.8141	26.848±3.875	0.002	

Table 7: Association of knowledge regarding teenage pregnancy in relation to education(n=100)					
Variables	Possible correct score	Class=9 N=41 Mean±SD	Class=10 N=41 Mean±SD	Class=12 N=18 Mean±SD	P value (ANOVA)
Contributing factor	19	11.878±1.51	12.00±1.92	14.00±1.23	0.00
Consequences	12	6.51±1.075	6.36±1.29	7.83±0.707	0.00
Preventive Measures	9	6.415±0.893	6.78±1.36	7.611±0.91	0.01
Overall Knowledge	40	24.80±2.75	25.22±3.58	29.44±2.09	0.00

Table 7 shows that ANOVA test of variable testing at 5% level of significance. The overall mean knowledge score of respondents of education of class 9 was 24.80±2.75, class 10 was 25.22±3.58 and class 12 was 29.44±2.09. The P value obtained in total knowledge score was 0.00 which is less than 0.5. Hence there is significance difference in knowledge regarding teenage pregnancy in relation to education.

DISCUSSION

In this study, respondents had knowledge on lack of sex education (81%) is social factor as teenage pregnancy which was consistent with the study done by Gunawardim¹³ in Sub-Saharan Africa which shows 75%. Respondents had knowledge that sexual pressure from peer (68%) is the peer for teenage pregnancy which was consistent with study done by Amponsemboateng *et al.*¹² in west district of Ghana which was 75.8%.

In this study, respondents had knowledge that increased school dropout (51%) is the main effect on academic performance which was consistent with the study done by Kafle *et. al.*⁶ in rural Kathmandu which shows (40%). Respondents had knowledge that abortion (86%) is the maternal consequences of teenage pregnancy which was consistent with the study done by Bhandari⁹ in Ampipal VDC (Gorkha District) which shows 82%. Regarding new born consequences, respondents had knowledge that low birth weight (69%) is the new born consequences of teenage pregnancy which was consistent with the study done by Chalise and Bajracharya¹¹ which shows 78.23%. Regarding preventive measures, respondents had knowledge that abstinence from sex (55%) and use of condom (55%) as preventive measures which was inconsistent with the study done by Maxwel *et. al.*⁸ which shows abstinence from sex (94%) and use of condom (83%).

In this study, overall mean knowledge score or respondents regarding teenage pregnancy is 25.81 ± 3.46 which was consistent with the study done by Bhandari⁹ in Ampipal VDC (Gorkha District) which shows18.36±1.25. Association of knowledge regarding teenage pregnancy in relation to ethnicity (0.04) which is less than 0.05 was consistent with the study conducted by Sah and Gaurav¹⁰ in Eastern region of Nepal which show (0.01).

In conclusion, the study findings reported that the overall mean knowledge score of respondents was 25.81±3.46 with the minimum score 14 and maximum score 34. The mean

knowledge score about contributing factors was 12.34 ± 1.82 , consequences were 6.69 ± 1.82 and preventive measures were 6.78 ± 1.17 . The total knowledge score regarding teenage pregnancy was significant in relation to age and education status of respondents where p value were 0.002, 0.000 respectively. So it is concluded that respondents had adequate knowledge regarding teenage pregnancy.

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