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Original Research Article

Knowledge and attitude towards emergency contraception in females of urban area of Lucknow, Uttar Pradesh, India

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ABSTRACT

Background: Emergency contraception are birth control measures that, if taken after unprotected sexual intercourse, contraceptive failure, incorrect use of contraceptives or in cases of sexual assault may prevent pregnancy. The aim of the study was to assess the knowledge and attitude of female living in urban part of Lucknow district from September 2015 to August 2016.

Methods: This was a descriptive, cross-sectional study conducted at RML Hospital, Lucknow from September 2015 to August 2016. A cross sectional study design was conducted and Participants were selected using simple random sampling method. Data was collected by using self-administered questionnaires. Data processing and analysis: The collected data was entered into a computer and analyzed using statistical package of social science version 20.0.

Results: In this study it was found that, Out of 385 subjects 54% (209) new the correct time interval for EC to be effective and 91% (350) new that this is for prevention of unplanned pregnancy. Out of 385 subjects 77% (345) reported that they had heard the word EC from different sources, however 23% (90) reported that they never heard about that it means that still there is a scope of health awareness activities and health education to improve the knowledge of EC. Different attitudes of females towards emergency contraception some different pair of questions was asked. Out of 385 subjects 85% (329) were reported that they have positive attitudes in terms of benefits of EC to reduce the risk of unplanned pregnancy. A few number of subjects i.e. 12% (48) reported negative attitudes towards EC where as 3 % (8) did not respond. The more than half subjects i.e. 68% (260) reported that they use EC even if their partners disagreed with them where as 11% (41). Cultural belief was found as an barrier in having negative attitudes towards EC. The Religion, Occupation and educational status affect knowledge and attitudes towards EC.

Conclusions: The results show that there is a scope of health awareness activities and health education to improve the knowledge and attitude towards EC.

Keywords: Awareness, Attitude, Emergency contraception, Public health issue

INTRODUCTION

Unintended pregnancy continues to be a major public health issue in the India. Emergency contraception (EC) describes the use of contraceptive measures to prevent pregnancy occurring after intercourse has taken place. Emergency contraception is birth control that prevents pregnancy after sex, that's why it is also called "the morning after pill" the day after pill or morning after contraception and generally there are two types of contraception .Emergency contraceptive pills (ECPs) and Intrauterine device (IUD). Across the world, some additional methods are being used in EC. In addition to progestin only and combined methods, ulipristal acetate

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has been approved as an ECP in Europe in early 2009 and in the US in August 2010, whereas mifepristone is generally used as either EC or as an abortifacient in Russia and China. Emergency contraception (EC) refers to methods that women can use to prevent pregnancy after unprotected sexual intercourse, and is also known as "post-coital" contraception. 1,3 Situations of unprotected intercourse where EC can be used as a backup contraceptive method include, failure of barrier methods such as slippage, breakage or misuse of the condom, sexual assaults, rape, failed coitus interruptus, two or more consecutive missed oral contraceptive pills, or simply because intercourse was unexpected and therefore contraception had not been used.² Worldwide unplanned pregnancy is a major medical, social, and public health problem.³ There are 80 million unplanned pregnancies in the world every year, of which 38% of all pregnancies can be deemed an epidemic.⁴ The WHO estimates that about 46 million abortions are performed under unsafe conditions.⁵ There is growing worldwide acceptance and promotion of EC as a measure to reduce the level of unwanted pregnancies and, hence, unsafe abortion. In an American study, it was reported that nearly half of all pregnancies were unintended and half of these pregnancies end in elective termination.⁶ Another study highlighted the potential effect of EC in this regard could be most evident in sub-Saharan Africa.⁷ Women in low income and minority groups are at highest risk of unintended have limited access to primary care and may have difficulty accessing highly effective contraception.8 As per the World Health Organization estimates, 210 million pregnancies occur annually, out of which, 38% are unwanted and 22% end up with abortion worldwide. In India, about 11 million abortions take place annually and around 20,000 women die every year due to abortionrelated complications. It was reported from a Nigerian study that EC could play an important role in averting pregnancies attributable to non-use or incorrect use of contraceptives, contraceptive failure, lack of knowledge about, or access to methods, or coerced sex.²

The National Health Policy 2000 states the achievement of reduction of Maternal Mortality Ratio by three fourths and achieving Replacement Fertility levels by 2010 as two of its goals. The Government of India introduced Emergency Contraceptive Pills (ECP) in the National Family Welfare Programmes in 2003 as one of the strategies to prevent unwanted pregnancies. Unsafe abortions are still a leading cause of maternal mortality, nearly 8% of the total, and also a major contributor to maternal morbidity. Government of India approved the dedicated regimen of emergency contraceptives in year 2001 and the same was introduced in the National Family Health Welfare Program in 2003.⁵ It was approval as over the counter for adults aged 18 and above by the Government of India in 2005. Prevention of an unwanted pregnancy through methods of Emergency Contraception will help to reduce the number of maternal deaths from unsafe abortions and also to reduce the fertility levels. However, there should be simultaneous realization of the

fact that the real success of this service is to promote the acceptance of a regular contraceptive to prevent future pregnancies. Present document updates the information included in an earlier Guideline by the MoHFW in year 2003. Since then, EC pills have been made available through network of health care delivery institutions in public sector. Similarly, several dedicated products are available in commercial markets.

Objectives

General objective

To assess the knowledge and attitude of emergency contraception among females belong to urban area of Lucknow, from Sep 2015 to August 2016.

Specific objectives

- To assess the knowledge on emergency contraception among females belong to urban area of Lucknow, from Sep 2015 to August 2016.
- To identify the attitude towards emergency contraception among females belong to urban area of Lucknow, from Sep 2015 to August 2016.

METHODS

This was a descriptive, cross-sectional study conducted at RML Hospital, Lucknow from September 2015 to August 2016. The study was approved by the Institutional Ethics Committee. The study was conducted using pre-validated and pretested questionnaire. The sample size was calculated by using formula $n=4pq/d^2$. Due to proper lack of study in nearby area to find rough value of p, it was taken as 50%. By using this formula the minimum sample size was required as 385. The simple random sampling was used for data collection. The questionnaire included multiple choice questions, closed-ended and a few open-ended questions. Questionnaire was both in English and Hindi languages. The questionnaire elicited details on knowledge, attitude and practice toward the use of ECPs. It also included information on various socio demographic variables, such as age, sex, educational status, and marital status.

Inclusion criterion

All females visiting at OPD of Obstetrics and Gynecology at RML Hospital, Lucknow

- Age more than 18 years and less than 45 years
- Willing to participate in the study

Exclusion criterion

- Participants of age less than 18 years and more than 45 years
- Suffering from any mental or psychological disease

• Not willing to participate in the study

Dependent variables

- Knowledge on emergency contraception
- Attitude on emergency contraception
- Practice on emergency contraception

Independent variables

- Socio demographic variables
- Sexual and reproductive health behavior
- Exposed to media

Data collection and analysis

The questionnaire was bilingual and those who could not read and write, investigator filled the questionnaire. The information collected from the study subjects were captured in Microsoft excel and analysed by Statistical Packages for Social Sciences (SPSS) of version 20.0. Mean and SD while frequency and percentage were obtained for categorical data.

RESULTS

Table 1 shows the socio demographic details of study subjects. The age group of the study subjects was classified in four group's i.e.18-24, 25-31, 33-38 and 39-45 years having the number of study subjects 90, 86, 99 and 110. Out of 385 subjects 53 % (205) were Hindu, 32% (125) were Muslims, 13 % (50) were Christian and 1% (5) were others .The education level of 48% (186) was below high school, 52 % (199) were above high school. The majority females were housewives i.e.79% (305). 78% (301) study subjects were married.

Knowledge towards emergency contraception

The knowledge towards emergency contraception is important component to be studied in community. In the present study four major information's were captured to get level of knowledge towards EC. Out of 385 subjects 54% (209) knew the correct time interval for EC to be effective and 91% (350) knew that this is for prevention of unplanned pregnancy. Out of 385 subjects 77% (345) reported that they had heard the word EC from different sources, however 23% (90) reported that they never heard about that. The majority of females, 73% (281) felt that they used EC before.

Attitude towards emergency contraception

To see the different attitudes of females towards emergency contraception some different pair of questions was asked. Out of 385 subjects 85 % (329) were reported that they have positive attitudes in terms of benefits of EC to reduce the risk of unplanned pregnancy. A few number of subjects i.e. 12% (48) reported negative

attitudes towards EC where as 3% (8) did not respond. The more than half subjects i.e. 68% (260) reported that they use EC even if their partners disagreed with them where as 11% (41) reported that they do not use if partners do not want collectively and 22% did not reply about that. When it tried to know whether there is any cultural barrier is there or not regarding emergency contraception, 31% (118) reported that they have some cultural beliefs regarding EC.

Table 1: Personal characteristics of study subjects.

Variables	Frequency	%
Age group		
18-24	90	23
25-31	86	22
32-38	99	26
39-45	110	29
Religion		
Hindu	205	53
Muslim	125	32
Christian	50	13
Others	5	1
Education		
Below high school	186	48
High school to	134	35
Graduation		
Graduation and above	65	17
/Professional		
Occupation		
House wife	305	79
Service	21	5
Business	9	2
Student	40	10
Others	10	3
Marital status		
Married	302	78
Unmarried	65	17
Others	18	5

DISCUSSION

The actual studies, participants out of 385 subjects 85% (329) were reported that they have positive attitudes in terms of benefits of EC to reduce the risk of unplanned pregnancy. A few number of subjects i.e. 12 % (48) reported negative attitudes towards EC where as 3 % (8) did not respond. The more than half subjects i.e. 68 % (260) reported that they use EC even if their partners disagreed with them where as 11 % (41).

Cultural belief was found as a barrier in having negative attitudes towards EC. The Religion, Occupation and educational status affect knowledge and attitudes towards EC.

Table 2: Knowledge towards emergency contraception.

Knowledge regarding EC	N	%
Correct time interval for EC to be effective	209	54
Reason to use EC (Prevent unplanned pregnancy)	350	91
Heard about EC		
From TV	34	9
From Newspaper	26	7
From Mother, sister, Friends	117	30
From sexual partner	78	20
Others	40	10
Never Heard	90	23
Used EC before	281	73

Table 3: Attitude of study subjects towards emergency contraception.

Attitude				
Positive attitude (Benefits of using EC outweigh the risk of having an unplanned pregnancy)	329	85		
Negative attitude (the use of EC did not outweigh the risk of having an unplanned pregnancy)	48	12		
Did not respond	8	3		
Partner agreement regarding the use of EC				
Would use EC even if their partners disagreed with them (Yes)	260	68		
Would discontinue the use of EC	23	6		
If their partners dislike the use of EC	18	5		
Did not respond	84	22		
Cultural belief or religion as barriers				
Yes	118	31		
No	267	69		

In this study, sexually active participants had a superior attitude than sexually inactive participants, who are believed to be reluctant about EC. In this study one important aspect we need to give awareness to, is the presence of sexual abuse; reported that the reason for their unintended pregnancy was due to forced sexual intercourse. It is unspecified that the findings of this study can be generalized because of the representative nature of study participants (random sampling) and adequate number of sample size. Although the

questionnaire contained some socially sensitive questions, in order to obtain a reliable data, respondents were well informed about the purpose of the study and they were reassured about confidentiality and anonymity. Conducting the study among these study participants who are relatively in higher educational level is novel about the study since this is a good opportunity to illuminate the influence of education in awareness of EC. ¹²⁻¹⁵

Table 4: Association of different variables on knowledge, attitude and practice of EC*.

Variable	Knowledge	Attitude
Age group	Chi square =1.99,p=0.34	Chi square =1.09,p=0.54
Religion	Chi square =9.22,p=0.0007	Chi square =8.08,p=0.004
Education	Chi square =11.39,p=0.0004	Chi square =17.70,p=0.0001
Occupation	Chi square =16.89,p=0.00001	Chi square =31.21,p=0.0001

*After assessing an interview each subjects was reported as aware/not aware, positive attitude/negative attitude on EC.

CONCLUSION

The mean age of study subjects was 32.33 (±9.20) years. In the present paper significant conclusion are out of 385 subjects 54% (209) knew the correct time interval for EC to be effective and 91% (350) knew that this is for prevention of unplanned pregnancy. Out of 385 subjects 77% (345) reported that they had heard the word EC from different sources, however 23% (90) reported that they never heard about that it means that still there is a scope of health awareness activities and health education to improve the knowledge of EC.

The attitudes of females living in urban part of area still have unsatisfactory attitudes towards EC so some solid actions should be implemented to change the negative attitude.

Age group is not associated with awareness level and attitude whereas religion, educational status and occupation has association with awareness and attitude (p<0.05) so by improving educational status, by community based health education and by reducing unemployment awareness and attitude can be changed.

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Ethical approval: The study was approved by the

Institutional Ethics Committee

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