

# Knowledge, Attitude And Practices Relating To Emergency Contraception Among College Girls And Their Mothers

N Hooja, P Mital

## Citation

N Hooja, P Mital. *Knowledge, Attitude And Practices Relating To Emergency Contraception Among College Girls And Their Mothers*. The Internet Journal of Gynecology and Obstetrics. 2012 Volume 16 Number 1.

## Abstract

Emergency contraception (EC) has the potential to improve women's reproductive health. Acceptance of this method is essential to increase its awareness and access to EC. **OBJECTIVE:** The objective of the study was to determine the knowledge, attitude and practices relating to hormonal EC among collegiate girls and their mothers. **MATERIAL AND METHOD:** 100 college girls and their mothers were interviewed using a pre-structured questionnaire. Answers were noted and analysed. All participants were given a short talk on EC, and then their concerns and perceptions on future availability were enquired. **OBSERVATIONS:** Age group of the mothers was 38-47 years. Only 34% had heard of EC and 4% of these had used the EC pills. Only 28% felt they would discuss it with their daughters. Age group of the girls was between 18 –23 years. 40% of the girls had heard of EC-20 (50%) through television, 4(10%) from their mothers and 16(40%) through friends. 8% of them were married, 2 (25%) has used EC once. 70% girls thought it was good for female health and should be freely available to all in medical shops. 80% mothers and 75% girls said promotion of knowledge of EC should be done at college level but only 20% of these young girls said it should include only girls above 14 years age. 58% thought it will increase the casual sex but decrease the unwanted pregnancy rate. **CONCLUSION:** Knowledge about EC among the college girls and their mothers was inadequate. Continued information programs and more involvement of health care providers is required

## INTRODUCTION

Emergency contraceptive pills (EC) have become more available in many developing countries. However, limited provider knowledge and negative attitudes, as well as poor user awareness and access, have hindered adolescents in learning about and using EC. Studies have found a delay of about one year on average between starting sexual activities and first use of modern contraceptives<sup>1</sup>.

In 1995, worldwide, woman experienced over 300 million unwanted pregnancies resulting in over 700,000 of them to death because of pregnancy related cases. World Health Organization (WHO) estimated that 84 million unwanted pregnancies occur annually world wide. A worldwide study conducted by the WHO to assess the reproductive needs of the population found unexpected discrepancy between the young peoples familiarity with modern contraception and on the other hand the high levels of unwanted pregnancy and unsafe abortion experienced. Millions of women who could benefit from emergency contraception have never heard of it<sup>2,3</sup>. In India, where quite a number of pregnancies are unplanned, the need for EC is substantial. Infact, in various studies use of EC has emerged as a starting point for regular

use of contraceptive in young adolescents<sup>4,5,6</sup>. Various countrywide outreach activities have been launched to increase the awareness regarding EC however acceptance of this method is limited by lack of awareness and access to EC. Hence, this study was undertaken to fill the information gap regarding EC and to be useful in determining the effectiveness of the educational messages and secondly to define the target audience for future campaigns.

The objective of the study was to determine the knowledge, attitude and practices relating to hormonal

EC among college going girls and their mothers.

## MATERIAL AND METHODS

This was a observational study conducted among 100 undergraduate female students and their mothers. The study conformed to the declaration of Helsinki and all participants were enrolled after obtaining informed consent, after obtaining clearance from ethics committee and the institute. The study population was subdivided into two groups i.e. 100 undergraduate college girls and their mothers in role of chief care providers. Participants were interviewed using a pre-structured questionnaire. Answers were noted and

analysed. All participants were given a short talk on EC. Then their concerns and perceptions on future availability were enquired.

## RESULTS

A total of 200 women were included in study subdivided in two study groups: 100 college girls and 100 mothers. Mean age of study population was 41.2 + 2.57 years ( range 38-47 years) for mothers and 19.4+1.9 (range 18-23 years) for college girls. Among mothers, use of contraception was as follows: 16% of them had tubal ligation done. Of the rest 84%, 52% used contraception methods: IUCD –10%, condom-34%, oc pills- 8%.Only 34% had heard of EC and 4% of these had used the EC pills once.70% of them had heard about EC through television, 30% through friend. 38 % of the mothers had MTP done once or more and 14% had given birth to unwanted pregnancy.

**Figure 1**

Table 1: Contraception practices among mothers and girls

Contraception	Mothers n=100	Girls n=8
Tubal ligation	16 (16%)	-
IUCD	10 (10%)	
Condom	34 (34%)	
O.C.pills	8 (8%)	4 (50%)
E.C.Pills	4 (4%)	2 (25%)
None or natural methods	28 (28%)	2 (25%)

60% mothers said it was a good thing for female health and should be available over the counter but only to adults >18 years old (as for tobacco sale). Only 28% felt they would discuss it with their daughters; 5.6% with their friends and only 8% said they will talk about EC to their female domestic help. 60% of the mothers thought the knowledge of EC should be promoted. All agreed it will increase casual sex rate. 80% mothers thought the promotion campaign should include college girls to prepare them for marriage. No mother thought it should be promoted in school age girls.

Among the college going girls- 40% of the girls had heard of EC: 50% through television, 10% from their mothers while 40% through friends.

**Figure 2**

Table 2: Knowledge source of Emergency Contraception pill

Knowledge of EC	In mothers n = 34	In girls n = 40
Television	23 (67.6%)	20 (50%)
Friends	11 (32.4%)	16 (40%)
Mothers	-	4 (10%)

8% of them were married / sexually active, 4 (50%) of whom had heard of EC, 2 (25%) has used EC once.4 (50%) of the married girls used o.c. pills regularly.70% girls thought it was good for female health and should be freely available to all in medical shops. 24% girls said they would now discuss it with their mother; 70% with friends. Only 2% were willing to discuss it with their teachers in college. 75% girls said promotion of knowledge of EC should be done at college level but only 20% of these said it should include all girls above 14 years age(Table-3). 58% thought it will increase the casual sex but decrease the unwanted pregnancy rate.

**Figure 3**

Table 3: Attitudes and Practices of Discussion about EC Pills

Discussion	Mothers N=41	Daughters N=96
With Daughters/mothers	28 (68.3%)	24 (25%)
With Friends	5 (12.2%)	70 (72.9%)
With Domestic help	8 (19.5%)	-
With teachers	-	2 (2.1%)

## DISCUSSION

Although emergency contraception is not recommended as a routine family planning method, it is a useful method after unprotected sexual intercourse to reduce the chance of unwanted pregnancies. Emergency contraception is most useful when there is failure of barrier methods such as slippage and breakage of condoms, or when sexual intercourse was unpremeditated.However women need to know about emergency contraception and should be willing to use emergency contraception before it can be effective. Surveys among university and postsecondary students in several American and African countries found that while a quarter to three-quarters of youth had heard of emergency contraception, accurate knowledge about its use was

minimal<sup>7,8,9</sup>. In one study in Nigeria by Arowojolu et al<sup>10</sup>, 75 percent of students surveyed were aware of emergency contraception, but only 12 percent knew that the first dose of EC should be taken within 72 hours of unprotected intercourse. In a Ghana study by Baiden et al<sup>11</sup>, only 11 percent of the students surveyed (22 of 196 surveyed) knew the correct timeframe for starting EC.

A study by Tripathi et al<sup>12</sup> in northern India reported that very few of the youth surveyed (women seeking abortions and college students) were familiar with the concept of emergency contraception. In a survey by Ehlers et al<sup>13</sup> of adolescent mothers in South Africa, 189 out of the 250 respondents (76 percent) did not know about the availability of emergency contraceptives. Aziken et al<sup>14</sup> in a study of female undergraduate students in Nigeria, observed that 58 percent were aware of emergency contraception, but only 18 percent of those women knew the correct timeframe in which ECPs are most effective. In addition, misconceptions regarding emergency contraception, such as its side effects, were also a significant finding. This study emphasizes the need for better education and awareness programs.

In our study, 8% of mothers were using oral contraceptives and 32% were not using any contraception as compared to a study by Marafie et al<sup>15</sup> where 30% were using oral contraceptives and 28% were not using any contraception. In the study by Ebuchi et al<sup>16</sup> 96.8% had practiced contraception while 81.1% practiced contraception in the study of Takkar et al.<sup>17</sup>

In our study, 39% of the mothers and 40% of girls had heard of EC, as compared to 6.1% in the study of Marafie et al<sup>15</sup> and 67.8% in the study of Ebuchi et al<sup>16</sup>. In the study of Puri et al<sup>18</sup> 7.3% had knowledge about emergency contraceptive. 4% of mothers had used EC in our study as compared to 2.6% in the study of Takkar et al<sup>17</sup>. 56% mothers felt they will discuss it with their friends 28% with their daughters. Quite a number of girls said they will discuss it with their friends (70%) and mothers (24%). In the study of Marafie et al<sup>15</sup>, 65.2% felt they would not talk of EC with their friends. Berhanu et al<sup>19</sup> found that 47% of the university students mentioned that they have ever heard of EC as a means of preventing unwanted pregnancy if used soon after unprotected sexual intercourse. only 25.7% had good knowledge of EC.

60% felt it would be good for women's health and wanted them to be freely available as compared to Marafie et al<sup>15</sup> in

whose study 83.3% felt it was a risk to women's health 90.9% in their study also wanted the hormonal EC to be freely available. Source of knowledge was mainly television in 70% of the mothers and 50% of the girls, friends in 30% mothers and 40% girls as compared to Ebuchi et al<sup>16</sup> where source was health care providers in 34% and Takkar et al<sup>17</sup> where print and electronic media were the common source of public awareness in 57.7%. According to Berhanu et al<sup>19</sup> most frequently mentioned source of information about EC was TV/Radio (44.1%), followed by female friends (16.9%) and healthcare providers (9.6%). Corbett et al<sup>20</sup> in their study of university population concluded that There was an association between advanced prescription for EC and its likelihood of use. Most women would be significantly more likely to use EC if they had a prescription on hand. Of the women who were less likely to choose EC, 100% indicated they would feel embarrassed or judged when asking for it. Only 34% of those women who have had a gynecological exam in the past 12 months had discussed EC with their provider. Similar findings were reported by Vahratian et al<sup>21</sup>; they concluded that advance discussion and provision of EC is underutilized. Only 10% of all female respondents indicated that their current health care provider had spoken to them about EC in a routine health visit and just 5% of female respondents were offered a supply of EC in advance of need.

## CONCLUSION

Knowledge about EC among the college girls and their mothers was poor with some concern for poor availability. One challenge in educating college students and other young adults about EC is the identified lack of information about EC shared by health care providers with this population. The challenge to health care providers is to increase awareness and utilization of such preventive services. It is recommended to continue with awareness programs regarding EC through various channels. Factors influencing the usage and lack of communication among mothers also need attention. EC should be made freely available with some concern regarding their use among the younger women and promotion of casual sex. In developing countries such as India, a sex education program at college level may be introduced to provide at risk population with comprehensive knowledge.

## ACKNOWLEDGEMENT

The authors want to acknowledge all the people who have contributed significantly to the article.

## References

1. Contraception and adolescents: highlights from the NASPAG conference. *Contraception Rep* 1995; 6(3):4-11; Alan Guttmacher Institute (AGI). *Sex and America's Teenagers*. (New York, AGI, 1994)88; Kau M, Airhihenbuwa CO, Helm B. Sexual behavior and contraceptive use by adolescent pupils in the Republic of Bophuthatswana. *Int Quart Comm Health Ed* 1988-1989;9(1):73-82.
2. Tadesse E, Yoseph S, Gossa A. Illegal abortion in five hospitals in Addis Ababa. *Ethiop Med J*, 1994; 32 (4):283-84.
3. Segal S.J, LaGuardia, Termination of Pregnancy a global View. *Ballier's Clinical Obstetrics and Gynaecolog.*, 1990;4(2): 235-247.
4. Jejeebhoy SJ, Bott S. *Non-consensual Sexual Experiences of Young People: A Review of the Evidence from Developing Countries*. New Delhi, India: Population Council, 2003.
5. United Nations Children's Fund (UNICEF). *The Progress of Nations 2000*. New York: UNICEF, 2000. Available at: <http://www.unicef.org/pon00/>.
6. United Nations Population Fund (UNFPA). *Annual Report*. New York: UNFPA, 1999.
7. Hickey, Female College Students' Knowledge, Perceptions, and Use of Emergency Contraception. *Journal of Obstetric, Gynecologic, & Neonatal Nursing*, 38: 399-405.
8. Harper C, Ellertson C. Knowledge and perceptions of emergency contraceptive pills among a college-age population: a qualitative approach. *Fam Plann Perspect*. 1995 Jul-Aug;27(4):149-54.
9. Sawyer Robin G., Thompson Estina. Knowledge and Attitudes about Emergency Contraception in University Students; *College Student Journal*, Vol. 37, 2003
10. Arowojolu AO, Adekunle AO. Perception and practice of emergency contraception by post-secondary students in southwest Nigeria. *Afr J Reprod Health* 2000;4(1):56-65.
11. Baiden F, Awini E, Clerk C. Perception of university students in Ghana about emergency contraception. *Contraception* 2002;66(1):23-26.
12. Tripathi R, Rathore AM, Sachveva J. Emergency contraception: knowledge, attitude, and practices among health care providers in North India. *J Obstet Gynaecol Res* 2003;29(3):142-46.
13. Ehlers VJ. Adolescent mothers' utilization of contraceptive services in South Africa. *Int Nurs Rev* 2003; 50(4):229-41.
14. Aziken ME, Okonta PI, Ande AB. Knowledge and perception of emergency contraception among female Nigerian undergraduates. *Int Fam Plann Perspect* 2003;29(2):84-87.
15. Marafie N, Ball DE, Abahussain E. Awareness of hormonal emergency contraception among married women in a Kuwaiti family social network *Eur J Obstet Gynecol Reprod Biol*. 2006 Jun 23;58-61
16. Ebuchi OM, Ekanem EE, Ebuehi OA. Knowledge and practices of emergency contraception among female undergraduates in the university of Lagos, Nigeria. *East Afr Med J*. 2006 Mar;83(3):90-5.
17. Takkar N, Goel P, Saha PK, Dua D, Takkar N, Goel P, Saha PK, Dua D. Contraceptive practices and awareness of emergency contraception in educated working women. *Indian J Med Sci*. 2005 Apr; 59(4) :143-9.
18. Puri S, Bhatia V, Swami HM, Singh A, Sehgal A, Kaur AP. Awareness of emergency contraception among female college students in Chandigarh, India. *Indian J Med Sci*. 2007 Jun;61(6):338-46
19. Berhanu Desta, Nigatu Regassa. Emergency Contraception among Female Students of Haramaya University, Ethiopia: Surveying the Level of Knowledge and Attitude. *Educational Research* April 2011;2(4) :1106-1117.
20. Corbett PO, Mitchell CP, Taylor JS, Kemppainen J. Emergency contraception: knowledge and perceptions in a university population. *J Am Acad Nurse Pract*. 2006 Apr;18(4):161-8
21. Vahratian Anjel, Patel Divya A, Wolff Kristen, Xu Xiao. College Students' Perceptions of Emergency Contraception Provision. *J Womens Health (Larchmt)*. 2008; 17(1): 103-111.

**Author Information**

**Nupur Hooja, MS**

Associate Professor, S.M.S. Medical College and Hospital

**Premlata Mital**

Associate Professor, S.M.S. Medical College and Hospital