Journal of University of Babylon, Pure and Applied Sciences, Vol. (26), No. (5): 201810

Knowledge of Paramedical Students about Emergency Contraception in Baghdad City

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Abstract

Objectives : To determine the knowledge and attitude of paramedical students about emergency contraception.

Methodology: A cross-sectional study conducted inn college of Health and Medical Technology, College of Nursing University of Baghdad, Institute of Medical Technology. Sampling was (non probability convenient) & the sample size was 120 students. Study started from March 2015 to March 2016. Data was collected by questionnaire to obtain socio-demographic information (age, gender, contraception using intake of ,pills contained progesterone & estrogen ,pills without prescription ,family planning with contraception, dual & signal pills ,disease prohibited from using ,side effects,......etc).

Results: The result showed that there was a higher percentage of the received the answers were these of paramedical student in the college Nursing in age group (21-24)whereas the higher level of knowledge of paramedical student was recorded in health and medical technologies their responses were about the emergency contraception contained progesterone and estrogens the percentage of their responses was (31.7 %). There is a sort of convergence in the level of education between the students, Faculty of technical and those of the faculty of Nursing.

Recommendations: There is a great need to improve the quality of knowledge of paramedical student regarding the emergency contraception through supplying health education courses and seminars and tackling this thread intensively.

Keywords: Paramedical, Emergency Contraception.

معرفة الطلبة الطبيين حول وسائل منع الحمل الطارئة في مدينة بغداد سهى عطية كاظم

الخلاصة

الهدف من الدراسة: أن الهدف من الدراسة تحديد معرفة طلاب كل من كلية التمريض وكلية التقنيات الصحية والطبية والمعهد التقني الطبي حول موانع الحمل الطارئ . المنهجية: كانت الدراسة دراسة مقطعية والتي تم الحصول عليها من طلاب كلية النقنيات الصحية والطبية وكلية التمريض والمعهد الطبي التقني أجريت خلال الفترة الممتدة من آذار ٢٠١٥ إلى آذار ٢٠١٦ وشملت الدراسة (١٢٠) (عينة غير احتمالية سهلة,تم جمع المعلومات باعتماد استبانه خاصة أعدت لهذا الغرض واعتماد المعلومات الديمغرافية (العمر,الجنس,استعمال الموانع,هل تحتوي الحبوب على البروجستيرون والاستروجين ,هل يتم أخذها بدون وصفة طبية ,هل يتم تنظيم الأسرة باستخدام الحبوب ,الحبوب أحادية التركيب أو ثنائية التركيب ,هل يوجد مرض يمنع استخدامها,الأعراض الجانبية للحبوب ...الخ)

النتائج: أظهرت النتيجة أن أعلى معدل من الإجابات هو من قبل طلاب كلية التمريض في سن (٢١-٢٤) سنة، وأعلى معارف للطلاب في كلية التقنيات الصحية والطبية حول (حبوب منع الحمل الطارئ تحتوي على هرموني البروجيستيرون والأستروجين) وكانت النسبة هي (٣١.٧%).

التوصيات: هناك حاجة ماسة لتحسين وتطوير معارف الطلبة بخصوص موانع الحمل الطارئ من خلال التثقيف الصحى والندوات و دراستهم للموضوع بصورة موسعة.

الكلمات المفتاحية: المسعفين، وسائل منع الحمل في حالات الطوارئ.

1-Introduction

Half of all pregnancies in the United States are unintended; 3.2 million occurred in 2006alone, which is the last year for which data are available [1]. Emergency contraception offers women a last chance to prevent pregnancy after unprotected intercourse. Emergency contraception is especially important for outreach to the 4.5 million women who are at the risk of pregnancy. However, there is no regular method which provides a bridge to use an ongoing contraceptive method [2] [3].

Although emergency contraceptives do not provide protection against sexually transmitted infection, they do offer reassurance to the 8.6 million women who rely on condoms for protection against pregnancy in case of condom slippage or breakage [4].

Emergency contraceptives available in the United States include emergency contraceptive pills and the Copper T intrauterine contraceptive (IUC) [4] .The levonorgestre releasing intrauterine system (sold as Marina in the United States) is currently being stud- ied to be used as Emergency Contraception [5].

Emergency contraception (EC), or emergency poetical contraception, are birth control measures that, if taken after sexual intercourse, may prevent pregnancy Emergency contraceptive pills (ECPs)—sometimes simply referred to as emergency contraceptives (ECs) or the "morning-after pill"—are drugs intended to disrupt or delay ovulation or fertilization, which are necessary for pregnancy contraceptives. [6] [7] [8].

Emergency contraceptive pills (ECPs) sometimes referred to as emergency hormonal contraception (EHC) in Great Britain may contain higher doses of the same hormones estrogens, progestin's, or both found in regular combined oral contraceptive pills. Taken after unprotected sexual intercourse or contraceptive failure, such higher doses may prevent pregnancy from occurring [8].

The phrase "morning-after pill" is a misnomer; ECPs are most effective when used shortly after intercourse [9] [10].

Three types of emergency contraceptive pills are available: combined estrogen and progestin pills, progestin-only (levonorgestrel) pills, and ant progestin (ulipristal acetate or mifepristone) pills. Progestin-only and antiprogestin pills are available as dedicated specifically packaged for use as emergency contraceptive pill [11] [12]. Combined estrogen and progestin pills are no longer available as dedicated emergency contraceptive pills, but certain regular combined oral contraceptive pills may be used as emergency contraceptive pills [13] [14] [15]

2-Objective

To determine the knowledge and attitude of paramedical students on emergency contraception.

3-Subjects and Methods

3.1 - Study design

Across-sectional study& the sample size was 120 students (fourth stage)

3.1.1 Duration of the study

Data collection continued for a period starting from March 2015 to March 2016.

Study Setting The place where data collection from paramedical student from college of Health and Medical Technology /Medill technical university , College of Nursing University of Baghdad, Institute of Medical Technology/Baghdad/ Medill technical university.

Statistical method Statistical analysis was carried out using SPSS program, it was cross-sectional study including percentage and chi-square test to find any association between variables (true)which means (I know) (false) which means (I do not know), and obtained MCP (Monte Carlo P- value).

4- Results

4.1 - Results

Table (1) Shows that the higher percent of current answers in female was 27.5% and the lower percentage was 0.8% while the higher percent for male 18.3% and the lower percent was 4.2% as shown in this table.

Table (1): Distribution of gender according to age groups

	_		Ger	Total			
	Age groups Years	Male Female		Male Female			
		NO.	%	NO.	%	NO.	%
Г	(< 21)	5	4.2%	25	20.8%	30	25.0%
	(21-24)	22	18.3%	33	27.5%	55	45.8%
	(25- 28)	8	6.7%	17	14.2%	25	20.8%
	(> 29)	9	7.5%	1	0.8%	10	8.3%
	Total	44	36.7%	76	63.3%	120	99.9%
	Test	MCP	= 0.000	P<0.01			

Table (2) Shows that the higher percent of knowledge in Nursing about contraception using was 20.8% and the lower percent in medical institute was 13.35%.

Table (2) Distribution of knowledge about contraception using according to educational level

		Contraception using					Total			
Educational level		True		False						
		NO.	9	6	NO.	9	6	NO.		%
Health and medical technologies	24	20	%	16	13.3	3%		40	;	33.3%
Nursing	25	20.	8%	15	12.5	5%		40	;	33.3%
Medical Institute	16	13.3	5%	24	20.5	5%		40	;	33.3%
Total		65	54.	2%	55	46.	3%	120		100%
Test		MCP = 0.001			Р			P< 0.01 (HS)	

Table (3) shows that higher percent knowledge in health and medical technologies about contraception pills contain progesterone and estrogen was 31.7% and the lower percent in medical institute was 24.2%

Table (3) Distribution of knowledge about contraception pills contain progesterone and estrogen according to educational level

		raception esterone	-		Total		
Educational level	T	rue	F	alse			
	NO.	%	NO.	%	NO.	%	
Health and medical technologies	38	31.7%	2	1.7%	40	33.3%	
Nursing	34	28.3%	6	5%	40	33.3%	
Medical Institute	29	24.2%	11	9.2%	40	33.3%	
Total	101	84.2%	19	15.9%	120	100%	
Test	МС	P = 0.123		P> 0.05 (NS)			

Table (4):- Shows that higher percent of knowledge in nursing college about Emergency contraception pills without a prescription was 24.2% and the lower percent in health and medical technologies 18.3%.

Table (4) Distribution of knowledge about Emergency contraception pills without a prescription according to educational level

prescription according to educational level												
	E	mergen	cy cont	raception	pills w	ithout a p	rescrip	tion				
Educational level		n be ained	yes Can be obtained from pharmacies without a prescription		ained communication obtained without a prescription Can be obtained without a prescription cription Can be obtained from other sources		٦	Total				
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%		
Health and medical technologies	3	2.5%	22	18.3%	13	10.8%	2	1.7%	40	33.3%		
Nursing	5	4.2%	29	24.2%	5	4.2%	1	0.8%	40	33.3%		
Medical Institute	4	3.3%	24	20%	10	8.3%	2	1.7%	40	33.3%		
Total	12	10%	75	62.5%	28	23.3%	5	4.2%	120	100%		
Test			Р	> 0.05 (NS)								

Table (5):- Shows that higher percent of knowledge in Health and medical technologies college about family planning with contraception was 30.8% and the lower percent in medical institute was 14.2%.

Table (5) Distribution of family planning with contraception according to educational level

Educational level		y plannin aception	g with		Total		
	True		False				
	NO.	%	NO.	%	NO.	%	
Health and medical technologies	37	30.8%	3	1.7%	40	33.3%	
Nursing	33	27.5%	7	4.2%	40	33.3%	
Medical Institute	17	14.2%	23	19.2%	40	33.3%	
Total	87	72.5%	33	25.1%	120	100%	
Test	MCP = 0.000				P< 0.01 (HS)		

Table (6):- Shows that higher percent of knowledge in Health and medical technologies in dual and single pills of emergency contraception was 11.7% and the lower percent in medical institute was 4.2%.

Table (6) Distribution of knowledge about dual and single pills of emergency contraception according to educational level

F		ıal and si ergency c			Total		
Education level	True		False				
	NO.	%	NO.	%	NO.	%	
Health and medical technologies	14	11.7%	26	21.6%	40	33.3%	
Nursing	12	10%	28	23.3%	40	33.3%	
Medical Institute	5	4.2%	35	29%	40	33.3%	
Total	31	25.8%	89	74%	120	100%	
Test	MCP = 0.002				P< 0.01 (HS)	

Table (7):- Shows that higher percent of knowledge in nursing about the first disk intake increased opportunity in contraception was 25.8% and the lower percent in medical institute was18.3%.

Table (7) Distribution of knowledge about the first disk intake increased opportunity in contraception according to educational level

Contraception according to educational level									
		irst disk in ortunity in			Total				
Educational level	True		False						
	NO.	%	NO.	%	NO.	%			
Health and medical technologies	30	25%	10	8.4%	40	33.3%			
Nursing	31	25.8%	9	7.5%	40	33.3%			
Medical Institute	22	18.3%	18	15%	40	33.3%			
Total	83	69.2%	37	30.9%	120	100%			
Test	MCP = 0.049				P<= 0.05 (s)				

Table (8) Shows that higher percent of knowledge in nursing college about disease prohibited from using emergency contraception were 22.5% and the lower percent in medical institute was 15.8%.

Table (8): Distribution of knowledge about disease prohibited from using emergency contraception according to educational level

Education level		es prohib emergenc ception		om	Total		
	True F		Fa	alse			
	NO.	%	NO.	%	NO.	%	
Health and medical technologies	26	21.7	14	11.6%	40	33.3%	
Nursing	27	22.5	13	11.2%	40	33.3%	
Medical Institute	19	15.8	21	17.2%	40	33.3%	
Total	72	60%	48	40%	120	100%	
Test	MCP = 0.001				P< 0.01	(HS)	

Table (9) shows that higher percent of knowledge in Health and medical technologies and nursing in side effects was 26.7% and the lower percent in medical institute was 20%.

Table (9) Distribution of <u>knowledge about</u> side effects of contraception emergency according to educational level

		side (effects		Total		
Educational level	True		False				
	NO.	%	NO.	%	NO.	%	
Health and medical technologies	32	26.7%	8	6.7%	40	33.3%	
Nursing	32	26.7%	8	6.7%	40	33.3%	
Medical Institute	24	20%	16	13.3%	40	33.3%	
Total	88	73.3%	32	26.7%	120	100%	
Test	MCP = 0.348				P> 0.05	5 (NS)	

5 - Discussion

According to the gender, the result in this study showed that the higher percentage of knowledge in female with age group 21-24 (27.5%). This result is agreement with in Ethiopia [16]

Regarding educational level and contraception use knowledge, the result of this study demonstrated that 20.8% of study. This finding in agreed with the study done by [17] in Eastern Nigeria, which found the percentage was 25%.

The result in this study (table 3) revealed that the association between educational level and pills contain progesterone and estrogen knowledge, are about 31.7%., agree with study of [18] in South African .that found the percentage was 37.9%.

According to educational level and Contraception pills without a prescription knowledge. This study demonstrated that 24.2% of study ,this result was in approach with [19] in Southwest Ethiopia who found that the percentage was 25 %.

Regarding to educational level and Family planning with Contraception knowledge. This study found that 30.8% of the study this result was agreed with study done by [20].

Also the relation between educational level and dual and single pills knowledge. This study demonstrated that 11.7% of study. This result is in agreed with [21] [22] in 2010.

In educational level and the first disk intake increased opportunity in contraception knowledge. This study appeared that 25.8% of study, this finding supported with the study done by [23]. That found of the study that the woman speed up in the first disk intake increased opportunity and prevent pregnancy.

According to educational level and Disease prohibited from using contraception knowledge. This study demonstrated that 22.5% of study .This is a study of agreed with study done by[24] in Cameroon. That found of the study a significant association between woman using contraception and lead to development disease.

According to educational level and Side effects knowledge, this study demonstrated that 26.7% of study. That study was nearly percentage in hormone with [25] in Kathmandu. Found the percentage was 30 % [25]. And study done by [26], which recorded 27.4%.

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