

Original Article

A Study to Assess the Knowledge Regarding PCOS (Polycystic Ovarian Syndrome) among Nursing Students at NUINS.

Sunanda B.¹, Sabitha Nayak²¹Lecturer, ²Vice Principal & HOD, Dept. of OBG, Nursing, Nitte Usha Institute of Nursing Sciences, Paneer, Mangalore.

*Corresponding Author : Sunanda B., Lecturer, Dept. of OBG Nursing, Nitte Usha Institute of Nursing Sciences, Nitte University, Paneer, Mangalore - 575 018. Mobile: 9482098457 E-mail: sunanda@nitte.edu.in.

Received : 24-12-2015

Review Completed : 26-07-2016

Accepted : 17-08-2016

Keywords : Knowledge, PCOS, Nursing Students

Abstract :

Polycystic ovarian syndrome is an endocrine disorder which affects the adolescent girls. It has been found through studies that it affects around 5% to 10% of women in their reproductive years. The study was conducted to assess the knowledge on the polycystic ovarian syndrome among the student nurses. The data was collected from the nursing students by using structured questionnaire. The data collected from 150 samples in Nitte Usha Institute of Nursing Sciences. Descriptive survey research approach was adopted and data was analyzed by using descriptive and inferential statistics. Distribution of the samples on demographic characteristics revealed that 85% of the samples were in the age group of 21-25years, 75% of the samples were Christians, 82% of the samples were consuming mixed diet, and 92% samples had regular menstrual cycle. 76% of the samples were with average knowledge and 10.7% with good knowledge regarding polycystic ovarian syndrome. Hence the study concluded that Source of information, consumption of junk food, dietary patterns of the students were associated with their level of knowledge on PCOS at 5% level of significance.

Access this article online

Quick Response Code



Introduction

Adolescent period is a unique period where there is a change from childhood to adulthood, a time of physiological, psychological, social and emotional adaptation. During this period individual attains physical and sexual maturity, whereas emotional maturity will be imbalanced. The changes in adolescent period have important implications to understand the health risks associated with this syndrome.¹ during this period, the body changes and there will be development of secondary sex characteristics. Any difference of secondary sex characteristics can inversely affect the physical and emotional adaptation of the adolescent.

Polycystic ovarian syndrome is a condition in which woman has an imbalance of female sex hormones. This may lead to changes in the menstrual cycle, cyst in the ovary, failure to conceive and other health problems. It is a common health problem among teenagers and young women. It affects 5% to 10% of women in their reproductive years. These problems causes infertility. Although there is no cure for

PCOS, there are several ways to treat and manage the condition. If a girl is overweight, Weight loss can be very effective in lessening many of the health conditions associated with PCOS. Sometimes weight loss alone can restore hormone level to normal, causes many of the symptoms to disappear or become less severe. Healthy food habits and exercise helps to combat the weight gain. Research has suggested that PCOS may be related to increased insulin production. PCOS seems to run in families, too, so if someone in the family has it, they might be more likely to develop it. India has witnessed about 30% rise in polycystic ovarian syndrome (PCOS) cases in the last couple of years. Lack of knowledge and lifestyle changes are considered to be the major factor leading to this phenomenon. There is a need to increase awareness among women so as to avoid major cases of fertility problems in the future. A Nurse holds a critical role in health care that goes beyond the day to day duties. Nurses are in a position to provide comprehensive care to adolescent afflicted with the syndrome. Essential elements

of nursing practice should be included in the nursing education. So upgrading the knowledge regarding PCOS to nursing students will enhance the adolescent girls to modify their lifestyle and reduce the risk.

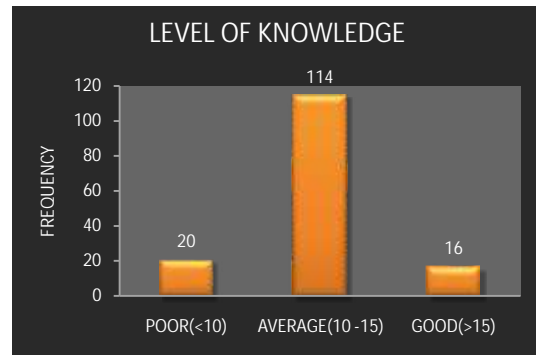
Materials and methods

Descriptive survey approach and descriptive design was adopted in this study. The study was conducted on 150 2nd year and III year B.Sc. Nursing students of Nitte Usha Institute of Nursing Sciences by using simple random sampling technique. The data was collected by using structured knowledge questionnaire on PCOS which consists of 20 items. The investigator obtained permission from the authorities of the college, prior to the data collection and assured confidentiality to the subject to get their cooperation and explained the purpose of the study. The results were analyzed through descriptive and inferential statistics.

Results

Most of the students (85%) were in the age group of 21-25 years. Most of the students were Christians (75.3%). Among the students, 82.7% were consuming mixed diet, 4% of the students were exclusively vegetarians. 92% of the students had regular menstrual cycle.

Level of knowledge of the students was assessed through frequency and percentage which depicts that most of the students (114) had average knowledge (76%).



Characteristics		Poor	Average	Good	Test statistic	P value
Age	18-20	17	98	13	0.533(Fisher's exact)	0.854
	21-25	3	16	3		
Religion	Hindu	5	16	2	2.972(Fisher's exact)	0.812
	Muslim	0	2	0		
	Christian	14	87	12		
	Others	1	9	2		
Course Of Study	2 nd B.Sc.(N)	12	53	8	1.256(Chi-square)	0.549
	3 rd B.Sc.(N)	8	61	8		
Dietary Pattern	Veg.	3	1	2	17.007(Fisher's exact)	0.001*
	Non-veg.	6	13	1		
	Mixed	11	100	13		
How Often Do You Consume Non-Veg.	Weekly once	6	15	0	10.193(Fisher's exact)	0.029*
	Weekly twice	9	63	6		
	>twice in a week	5	36	10		
Do You Like Junk Food	Yes	11	57	13	5.525(Chi-square)	0.063*
	No	9	57	3		
Amount of Water Intake Per Day	500-1000ml	13	69	13	4.485(Fisher's exact)	0.289
	1000-2000ml	5	41	3		
	>2000ml	2	4	0		
Regularity Of Menstrual Cycle	Regular	0	10	2	2.148(Fisher's exact)	0.329
	Irregular	20	104	14		
Menstruation disorder	Yes	20	109	15	0.962(Fisher's exact)	0.608
	No	0	5	1		
Source of information	Health personnel	3	25	4	15.968(Fisher's exact)	0.058*
	Friends	2	12	0		
	Parents	5	34	7		
	Teachers	4	36	2		
	Mass medias	5	5	3		
	No information	1	2	0		

The above table shows that there is an association between knowledge on PCOS and demographic variables such as dietary pattern, consumption of non-vegetarian, consumption of junk food and source of information.

Discussion

The study was conducted on 150 B.Sc. nursing students to assess the knowledge regarding PCOS. Students above 18 years of age were included in this study. Most of the students were in the age group of 21-25 years (85%). Analysis was done by frequency percentage. The level of knowledge was categorized into poor (13.3%), average (76.0%) and good (10.7%). The finding of the study shows

that majority (114) of students had average knowledge.

Conclusion

Due to the varied nature of PCOS and the large range of possible signs and symptoms, health personnel need a thorough knowledge of the disorder and its management. Nurses should be aware of the various organizations which render support. Counseling for adolescents should be included in the curriculum which will provide an awareness towards the disorder and lifestyle modification. In this study the 2nd and 3rd year BSc. (N) students had average knowledge on polycystic Ovarian Syndrome.

References

1. Mskalpana S.P, A study to evaluate the effectiveness of structured teaching programme regarding polycystic ovaries among the student of selected pre-university colleges in Bangalore. 2011 June
a. Available from URL: <http://www.rguhs.ac.in/cdc/onlinecdc>.
2. Afsaneh Khademi MD, Ashraf Alleyassini MD and Mehrnoosh Amini MD. The effect of exercise in PCOS women who exercise regularly. 2009 Nov.
a. Available from URL: www.ncbi.nlm.nih.gov/pmc/articles/PMC3289164/#!Po=s10,0000
3. Richard Scott Lucidi MD, FACOGI chief editor, 2014 sept. Polycystic ovarian syndrome overview.
a. Available from URL: <http://emedicine.Medscape.com/article/256806-overview>
4. Hadayat.A. AMASHA, Manar.F. Heeba, Department of Obstetrics and Gynaecology nursing, Egypt faculty of Nursing, Implementation and evaluation of effectiveness of educating programme for upgrading Nurses knowledge regarding PCOS.
a. Available from URL: <http://iosrjournals.org/iosr.jnhs/A-03140108>.
5. Centre for young women health. Polycystic ovary syndrome (PCOS). A guide for teens.
a. Available from URL: <http://www.youngmenshealth.org/index.html>
6. <http://www.healthshare.com.au/questions/2177-can-polycystic-ovarian-syndrome-pcos-be-cured>
7. Health wise webmed Available from URL: <http://women.webmed.com/tc/polycystic-ovary-syndrome-pcos-topic-overview>, may 2010.
8. Suja Nair Shirodkar, India witnesses alarming incidence of pcos.
9. Available from URL: <http://ay.urbhishak.wordpress.com/2010/09/23/%e2%99%a3-india-witnesses-alarming-rise-in-incidence-of-pcos-dr-rajeev-punjabi/>
10. Synder B.S. Pcos in adolescent patients: recommendations for practice. *Pediatric Nursing* 2005 sept-oct; 31(5):416.
11. The Hindu, Alarming rise in hormone disorder among young girls. Online edition, Apr 25, 2005.
a. Available from URL: <http://www.hinduonnet.com/2005/04/stories/2005042507400500.html>
12. Bhattacharya S M, Metabolic syndrome in females with polycystic ovary syndrome and international diabetes federation criteria. 2008 Feb; 34(1):62-6.
a. Available from URL: <http://www.ncbi.nlm.nih.gov/pubmed/18226131>
13. Nidhi R, Nagaratna R, Amrithanshu R. Prevalence of polycystic ovarian syndrome in Indian adolescents. 2011 Aug; 220-4.
14. Salehpour A, Esmaitnia H, Enlezari A. Evaluation of prevalence of PCOS among adolescent girls in Tehran. *Tehran during 2005-2006. International Journal of Fertility and Sterility* 2010 Oct-Dec; 4(3):122-7.
15. Yildiz BO, Azziz R. Impact of obesity on risk for PCOS. *The Journal of Clinical Endocrinology and Metabolism* 2008 Jan; 93(1):162-8.
16. Majundar A, Singh TA. Comparison of clinical features and health manifestation in lean v/s obese Indian women with PCOS. *Journal of Human Reproductive Sciences* 2009 Jan; 2(1):12-7.
17. Hollinrake E, Dokras A, Voorhis B. Increased risk of depressive disorder in women with PCOS. *Fertility and Sterility* 2007 Jan; 87(6):1369-76.
18. Shanmugasundaram S. Effectiveness of structured teaching programme on PCOS awareness among adolescent girls in a selected rural area. Chennai. India. *Abster Academy Health Meet.* [Online]. Available from: URL: <http://www.google.com>
19. Dhital AD, Badhu B. Effectiveness of structured teaching programme in improving knowledge and attitude of school going adolescents on reproductive health. *Kathmandu University Medical Journal* 2005; 3(12):380-3.