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A study to assess the effectiveness of planned teaching programme on knowledge and attitude regarding anorexia nervosa among the adolescent girls in selected schools of Dehradun

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Abstract

The aim of the study was determine the effectiveness of planned teaching programme on knowledge and attitude regarding anorexia nervosa among adolescent girls. A pre experimental one group pretest-posttest design was used for the study. Convenience non- probability sampling technique was used to select 100 adolescent girls. The data collection tool consists of three parts: demographic variables, self-structured questionnaire and eating attitude test-26. The result showed that there is no significant association between knowledge of adolescent girls regarding anorexia nervosa with selected socio-demographic variables. This study concludes that planned teaching programme was effective in increasing the knowledge and attitude regarding anorexia nervosa among the adolescent girls.

Keywords: Anorexia nervosa, adolescent girls, knowledge, attitude, school

Introduction

The term anorexia was established in 1873 by Sir William Gull. The term anorexia is Greek origin: An “negation” and orexis “appetite”. This means a lack of desire to eat people with anorexia have an extreme fear of weight gain and a distorted view of their body shape and size. As a result, they strive to maintain a very low body weight; some restrict their food intake by dieting, fasting. Anorexia is an emotional disorder that focused on food. But it is actually an attempt to deal with perfectionism and a desire to control things by strictly regulating food and weight people with anorexia often feel that their low self-esteem, anorexia is increasing common especially among young women in industrialized countries where cultural expectations encourage women to be thin and lean bodies. The anorexia nervosa causes are not known. The causative factors are may be genetics, family and learned behavior, culture, media and restrictive eating. The signs and symptom of anorexia nervosa are, the primary sign is severe weight loss. The physical signs include excessive weight loss, scanty or absent menstrual periods, thinning hair, dry skin, cold or swollen hand feet and others. The treatment of anorexia nervosa includes medical, psychological support, Cognitive therapy, along with anti-depressants, can be an effective treatment for eating disorders.

Research methodology

In this study the investigator adopted pre experimental, one group pretest post -test design to this study. The samples were selected from Sri Varni Jain inter college and govt. girls inter college Dehradun. 100 adolescent girls who fulfilled the inclusion criteria were included in this study by using Non -probability convenient sampling technique. The tool consisted of three type section 1: demographic variable, section 2: self-structured questionnaire, section 3: eating attitude test-26. Content validity is the important concern for evaluating any instrument. To ensure the content validity, tool along with objectives and criteria checklist were given to 7 experts in the field of research, psychology and nursing. The reliability coefficient of questionnaire was $r=0.882$ (<0.05) which is significant, so the tool was found to be highly reliable for data collection. Pilot study was conducted for the period of one week on 10 adolescent girls in govt. girls inter college Dehradun, order to test the feasibility, relevance and practicability of the study. Results showed that study was feasible to carry out the study in the different setting. Main study was conducted at Sri Varni Jain inter college and govt. girls inter college Dehradun from 12 may 2019 to 31may 2019.

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Results

Table 1 Illustrates frequency and percentages distribution of respondent according to demographic variables of samples. Data according to age of adolescent girls reveals that 65% of adolescent girls age is 13-15 year and 35% were 16-19 year. Adolescent girls 70% were in between 36 to 50 kg, 26% were ≤35kg and only 4% adolescent girls weight is >50 kg. Distribution of place of residence 83% subject belongs to urban area, 16% belongs to rural area and 1% from slum. According to types of family 49% of the subjects was living in joint family, 47% in nuclear family and remaining 4% of them live in extended family. Distribution according to monthly income of family 48% of the respondent monthly family income is less than Rs.5000, 21% having Rs.5001/- to Rs. 10000, 16% were having Rs.10001/- to Rs. 15000 and 15% respondent income more than Rs. 15000. According to father’s occupation 41% adolescent girls father occupation was other than the above mentioned, 23% were private employee, 21% were unemployed and 15% were government employee. Distribution according to mother’s occupation 79% adolescent girls mothers were house wife, 8% were private employee, 7% were government employee and 6% were other than the above mentioned. Distribution of subject by type of food pattern. They revealed that majority 86% respondents taking balanced diet and 7% each having fatty meals and junk food. Number of meals consumed by the adolescent girls per day that majority 62% of the respondent take 3 time per day, 22% will take 2 times per day, 13% were take 4 times per day and 3 students take 1 time per day. Previous source of information about anorexia nervosa 71% of the respondents don’t know about anorexia nervosa, 16% know from friends, 7% from internet and 6% from mass media they got the information. Distribution of subject according to body mass index 92% of the respondent having healthy weight, 4% each adolescent girls were underweight and overweight. Table 2 depicts the mean percentage obtained by the adolescent girls regarding “Anorexia nervosa”. The data shows knowledge pre-test mean scores of respondents were found 10.64, mean percentage 35.46% with SD 3.51 similarly in post-test 19.31, mean percentage 64.36% with SD 3.24. The attitude pre-test mean scores of respondents were found to be 18.58, mean percentage 23.82% with SD 7.48 similarly in post-test 15.97, mean percentage 20.47% with SD 3.37.

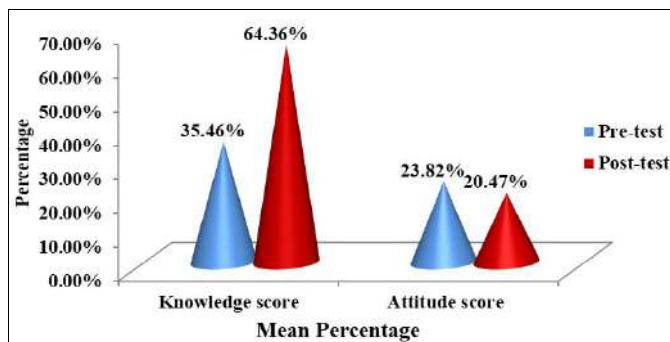


Fig 1: Mean% of the knowledge & attitude score regarding “Anorexia nervosa”.

Table 3 depicts that 52% of the adolescent had inadequate knowledge; 48% had moderate knowledge in pre-test. The

post-test knowledge level shows that 65% adolescents having moderate knowledge and 35% having adequate knowledge towards “Anorexia nervosa”.

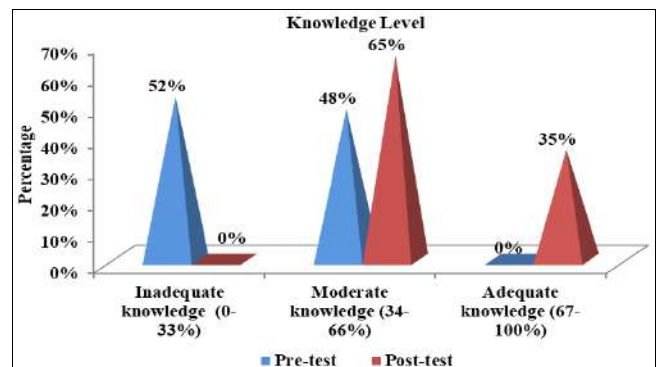


Fig 2: Knowledge level of the adolescent girls regarding “Anorexia nervosa”

Table 3 depicts that 67% of the adolescent girls have favorable attitude; 33% have unfavorable attitude in pre-test. The post-test attitude level shows that 86% adolescent girls having favorable attitude and 14% having unfavorable attitude towards “eating habit”

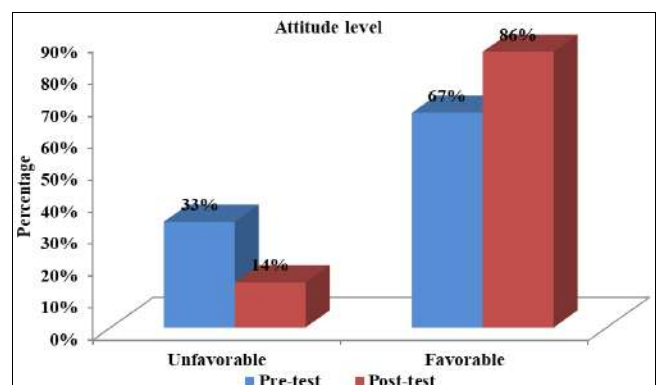


Fig 3: Attitude level of the adolescent girls regarding “eating habit”

Table 4 shows the difference between pre-test and post-test knowledge and attitude score of adolescent girls regarding anorexia nervosa. It was observed that 28.9% of mean difference in knowledge score and 3.35% in attitude score. Hence, the research hypothesis H₁ is accepted and null hypothesis is rejected.

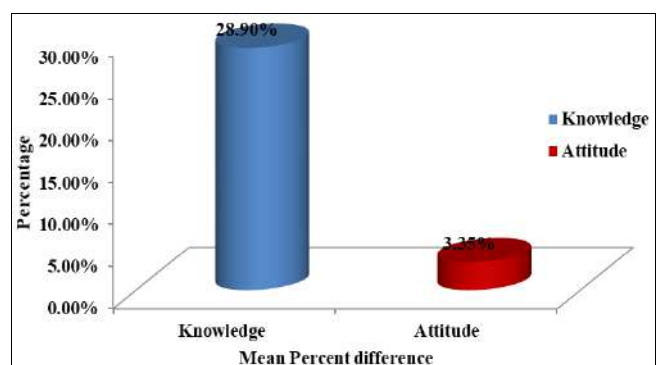


Fig 4: Difference between pre-test & post-test knowledge and attitude score

Table 1: Effectiveness of PTP on knowledge and attitude regarding anorexia nervosa among the adolescent girls (N=100)

Categories	Group	Mean ± SD	Mean difference	't 'value
Knowledge	Pre-test	10.64 ± 3.51	8.67	31.414 df=99 P=0.000
	Post-test	19.31 ± 3.24		
Attitude	Pre-test	18.58 ± 7.48	2.61	5.232 df=99 P=0.000
	Post-test	15.97 ± 3.37		

*-Significant at 0.05 level

Table 2: Association between knowledge of adolescent girls with selected socio demographic variables (N= 100)

Variable	Inadequate	Moderate	Df	Chi-square value	P value	Inference
Age in years						
13 – 15	36	29	1	0.852	0.356	NS
16 – 19	16	19				
Total	52	48				
Weight in Kg						
≤35	13	13	2	0.069	0.966	NS
36 – 50	37	33				
>50	2	2				
Total	52	48				
Place of residence						
Rural	10	6	2	1.855	0.396	NS
Urban	42	41				
Slum	0	1				
Total	52	48				
Type of family						
Nuclear family	27	20	2	1.068	0.586	NS
Joint family	23	26				
Extended family	2	2				
Total	52	48				
Monthly income of the family						
< 5000	28	20	3	4.077	0.253	NS
5001 – 10000	10	11				
10001 – 15000	5	11				
>15000	9	6				
Total	52	48				
Father's occupation						
Unemployment	8	13	3	5.805	0.121	NS
Private employee	11	12				
Government employee	6	9				
Others	27	14				
Total	52	48				
Mother's occupation						
House wife	42	37	3	1.468	0.690	NS
Private employee	3	5				
Government employee	4	2				
Others	3	4				
Total	52	48				
Type of food pattern						
Fatty meals	3	4	2	1.317	0.518	NS
Junk food	5	2				
Balance diet	44	42				
Total	52	48				
Number of meals pattern per day						
<1 time/day	1	2	3	1.308	0.727	NS
2 times/day	10	12				
3 times/day	33	29				
4 times/day	8	5				
Total	52	48				
Previous source of information about anorexia nervosa						
Mass media	3	3	3	8.308	0.040	S
Friends	4	12				
Internet	2	5				
No information	43	28				
Total	52	48				
BMI						
Underweight	1	3	2	2.017	0.365	NS
Healthy weight	48	44				
Over weight	3	1				
Total	52	48				

*Significant at 0.05 level. S = Significant, NS = Not – Significant

Table 3: Association between attitude score of adolescent girls with selected socio demographic variables N= 100

Variable	Favorable	Unfavorable	Df	Chi-square value	P value	Inference
Age in years						
13 – 15	41	24	1	1.293	0.256	NS
16 – 19	26	9				
Total	67	33				
Weight in Kg						
≤35	16	10	2	0.545	0.762	NS
36 – 50	48	22				
>50	3	1				
Total	67	33				
Place of residence						
Rural	10	6	2	0.647	0.723	NS
Urban	56	27				
Slum	1	0				
Total	67	33				
Type of family						
Nuclear family	32	15	2	2.304	0.316	NS
Joint family	31	18				
Extended family	4	0				
Total	67	33				
Monthly income of the family						
< 5000	32	16	3	5.863	0.118	NS
5001 – 10000	16	5				
10001 – 15000	7	9				
>15000	12	3				
Total	67	33				
Father’s occupation						
Unemployment	13	8	3	2.269	0.518	NS
Private employee	17	6				
Government employee	8	7				
Others	29	12				
Total	67	33				
Mother’s occupation						
House wife	52	27	3	1.878	0.598	NS
Private employee	7	1				
Government employee	4	2				
Others	4	3				
Total	67	33				
Type of food pattern						
Fatty meals	3	4	2	5.313	0.070	NS
Junk food	7	0				
Balance diet	57	29				
Total	67	33				
Number of meals pattern per day						
<1 time/day	1	2	3	2.267	0.519	NS
2 times/day	14	8				
3 times/day	44	18				
4 times/day	8	5				
Total	67	33				
Previous source of information about anorexia nervosa						
Mass media	4	2	3	0.683	0.877	NS
Friends	12	4				
Internet	5	2				
No information	46	25				
Total	67	33				
BMI						
Underweight	1	3	2	2.513	0.285	NS
Healthy weight	48	44				
Over weight	3	1				
Total	52	48				

*Significant at 0.05 level. S = Significant, NS = Not – Significant

Nursing implications

Nursing practice: Health promotion has been identified as fundamental accepts for nursing practice. Adolescent girls can recognize the knowledge and attitude regarding

anorexia nervosa. so that earliest they can take steps to prevent this condition from developing as “prevention is better than cure”, Educational material should be distributed in the form of pamphlets, handouts too the schools so that

the recent changes can be evaluated and prior knowledge can be corrected.

Nursing education: The present study would help the adolescent girls to understand the various aspects regarding anorexia nervosa and its preventive approaches. The present study helps the psychiatric health nursing to plan for the health educational programme. The effective education will have good impact and positive attitude towards anorexia nervosa.

Nursing administration: Nursing administration play an important role to ensure the entire dimension of health and complete wellbeing. Nurses are challenged to play the role of administrators as well as practitioners, The administrator should plan a separate budget for schools' awareness programme related to anorexia nervosa for adolescent girls.

Nursing research: The importance of research in nursing is to build the body of knowledge. The findings of the present study as the basis for students and professionals, to conduct further studies.

Conclusion

Education is the process of facilitating learning, or the acquisition of knowledge, skills, value, beliefs and habits. Good education is constructive in nature which constructs the future forever. The present study was designed to assess the effectiveness of planned teaching programme on knowledge and attitude regarding anorexia nervosa among the adolescent girls in selected school of Dehradun. The study results revealed that the planned teaching programme was effective in the terms of gain knowledge and attitude regarding anorexia nervosa.

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